



Virtual Visionaries
We See What You Don't

2020/08/01
#Bikes4ERP_VVS



#BIKES4ERP

2020/08/01

Informatics 370 Deliverable 4
– Appendix B



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Virtual Visionaries
GROUP 17



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1 Sub-System 1: User

1.1 Home Screen



Figure 1 Home Screen



Number	Item	Description
1	Button	Redirects the user to the Home Screen.
2	Dropdown Menu Item	• This dropdown only has one option because the Student can only perform the "Report Fault" task on the system. • Note: Student is the only dropdown option that is enabled in the Nav-bar when nobody is logged in, this is because each respective User has their options in the Nav-bar when logged in but the student does not (we will see this in the following slides). • Redirects User to the Report Fault Screen.
3	Button	Redirects the user to the Help Screen.
4	Button	Redirects the User to the Log-In screen.



#ERP4BIKES

Our Mission

By distributing bicycles to students, the #BIKES4ERP project bridges the gap between having a dream and being able to achieve it.

1



Figure 2 Mission Statement

Number	Item	Description
1	Paragraph	This section of the Home Screen is just to provide more information to the Viewer



About Us

Under the motto, "mobilize me and I will change my world", students are empowered to obtain an education by entering into a "STUDY TO OWN" contract, whereby the student owns the bike after using it to attend school for 2 years.

1

If you want to find out more you can click [here](#) or you can follow our social media for live updates.



Contact ERP

If you have any questions and would like to contact us here are our details:

Tel: +0123123123

Email: test@gmail.com



Social Media

Come support us on social media and stay up to date with our latest news and projects, dont forget to leave a like!



Information

3

Contact VVS Team
General Help

4

About
FAQs

5

6

EPI-USE®



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Figure 3 Social Media



Number	Item	Description
1	Link	Redirects the User to ERP's Website: https://www.erp.ngo/
2	Button	The Buttons redirect the User to the following: • Twitter: Redirects the User to ERP's Twitter page: https://twitter.com/erp_redux?lang=en • Facebook: Redirects the User to ERP's Facebook page: https://www.facebook.com/erp.redux/ • Instagram: Redirects the User to ERP's Instagram page: https://www.instagram.com/erp.redux/?hl=en
3	Link	Redirects the User to the VVS Contacts page
4	Link	Redirects the user to the Help page
5	Link	Redirects the user to the FAQ page
6	Link	Redirects the User to the EPI-USE website: https://epiuse.com/



1.2 Navigation Bar Options

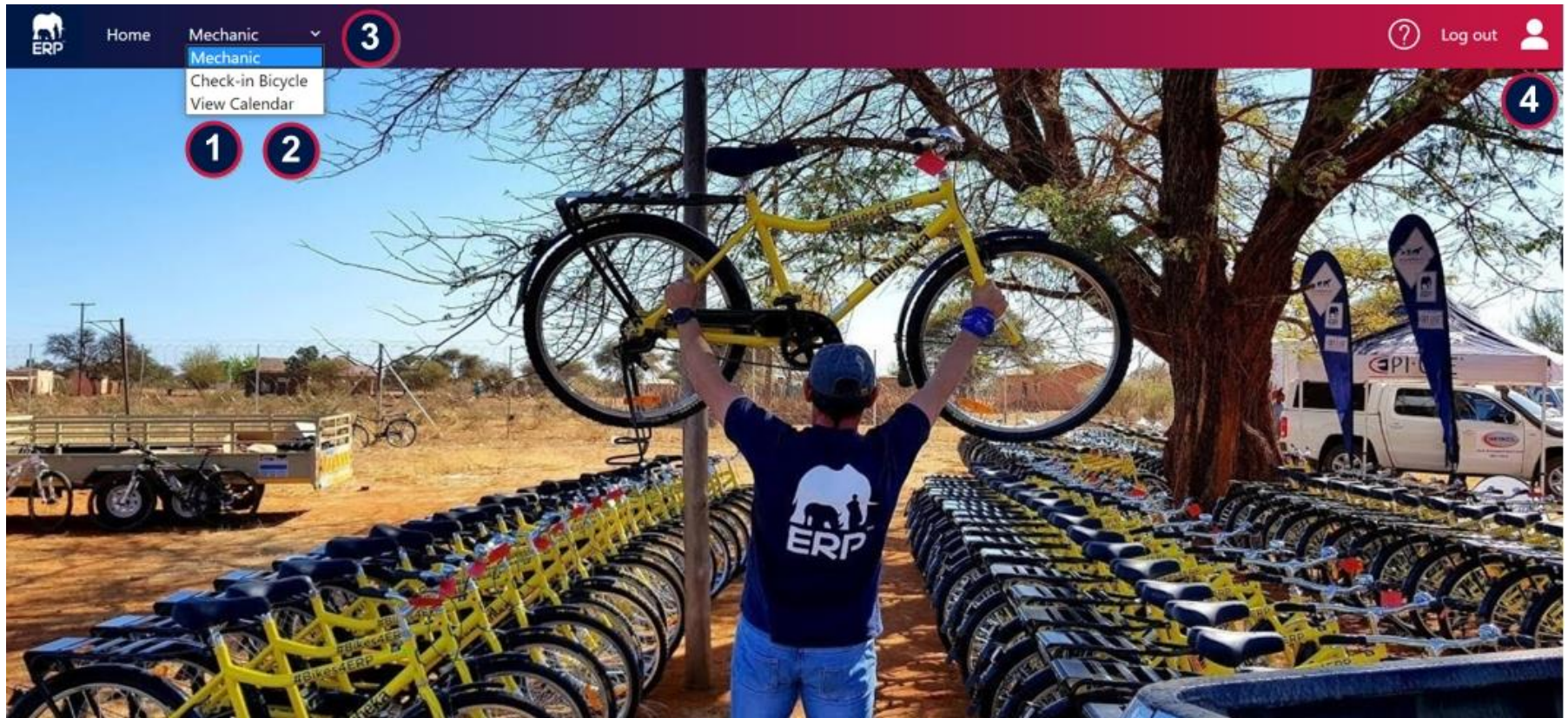


Figure 4 Mechanic Home Screen



Number	Item	Description
1	Dropdown Menu Item	Redirects the Mechanic to the Check-in Bicycle page
2	Dropdown Menu Item	Redirects the Mechanic to the View Calendar page
3	Dropdown	This Dropdown box only appears if the User which logs in is of the type "Mechanic".
4	Button	If the user clicks on the Logout option then it will log the Mechanic out of the system



Figure 5 School Admin Home Screen



Number	Item	Description
1	Dropdown Menu Item	Redirects the School Administrator to the Capture Marks page
2	Dropdown Menu Item	Redirects the School Administrator to the Manage Students page
3	Dropdown Menu Item	Redirects the School Administrator to the Manage Mark Types page
4	Dropdown Menu Item	Redirects the School Administrator to the Manage Bicycles page
5	Dropdown	This Dropdown box only appears if the User which logs in is of the type "School Administrator".
6	Button	If the user clicks on the Logout option then it will log the School Administrator out of the system



Figure 6 Super Admin Home Screen



Number	Item	Description
1	Dropdown Menu Item	Redirects the Super Administrator to the Reports page
2	Dropdown Menu Item	Redirects the Super Administrator to the Users page
3	Dropdown Menu Item	Redirects the Super Administrator to the User Types page
4	Dropdown Menu Item	Redirects the Super Administrator to the Bicycle Parts page
5	Dropdown Menu Item	Redirects the Super Administrator to the Bicycle Sections page
6	Dropdown Menu Item	Redirects the Super Administrator to the Schools page
7	Dropdown Menu Item	Redirects the Super Administrator to the Routes page
8	Dropdown Menu Item	Redirects the Super Administrator to the Tags page
9	Dropdown Menu Item	Redirects the Super Administrator to the Antennas page
10	Dropdown Menu Item	Redirects the Super Administrator to the Fault Tasks page
11	Dropdown Menu Item	Redirects the Super Administrator to the Maintenance Tasks page
12	Dropdown	This Dropdown box only appears if the User which logs in is of the type "Super Administrator".
13	Button	If the user clicks on the Logout option, then it will log the Super Administrator out of the system



Figure 7 Super Admin Home Screen 2



Number	Item	Description
1	Dropdown Menu Item	Redirects the Super Administrator to the System Data Maintenance page
2	Dropdown Menu Item	Redirects the Super Administrator to the Audit Trail page
4	Button	If the user clicks on the Logout option, then it will log the Super Administrator out of the system
Note	Text	Same as "Administrator Management Dropdown" System's management also only displays if a Super Administrator is logged in



1.3 Login Screen

The login screen features a white background with a central form. At the top, the text "Welcome Back!" is displayed in a large, bold, black font. Below it, the instruction "Please log into your account" is written in a smaller, regular black font. The form contains two input fields: "Username:" with the text "JamieTheAdmin" and "Password:" with masked characters "*****". Both fields have a red underline. Below the password field is a red "Login" button. At the bottom of the form is a link labeled "Forgot Password?". Four red circular callouts with white numbers are placed around the form: "1" is next to the username field, "2" is next to the password field, "3" is next to the login button, and "4" is next to the forgot password link.

Figure 8 Login Screen



Number	Item	Description
1	Textbox	Allows the user to enter a Username
2	Textbox	Allows the user to enter their Password
3	Button	Log's the User in provided their Username and Password is correct
4	Button	Redirects the User to the Forgot Password page



The screenshot shows a login interface with the following elements and annotations:

- 1**: Username input field
- 2**: Blue error message box: "Please enter your Username" with a close icon (x)
- 3**: Password input field
- 4**: Yellow error message box: "Error! Login failed, please make sure your Username and Password are correct" with a close icon (x)
- 5**: Login button
- 6**: "Forgot Password?" link

Figure 9 Login Error Screen



Number	Item	Description
1	Textbox	Allows the user to enter a Username
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Textbox	Allows the user to enter their Password
4	Label	This Label is displayed when there is an error logging in
5	Button	Log's the User in provided their Username and Password is correct
6	Button	Redirects the User to the Forgot Password page



1.4 Forgot Password Screen

Figure 10 Forgot Password Screen

Number	Item	Description
1	Textbox	Allows the user to enter their Email
2	Button	Sends an email to the user with Forgot Password details
3	Button	Redirects the user to the Login page



Figure 11 Forgot Password Error Screen

Number	Item	Description
1	Textbox	Allows the user to enter their Email
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error sending the Forgot Password email
4	Button	Sends an email to the user with Forgot Password details
5	Button	Redirects the user to the Login page



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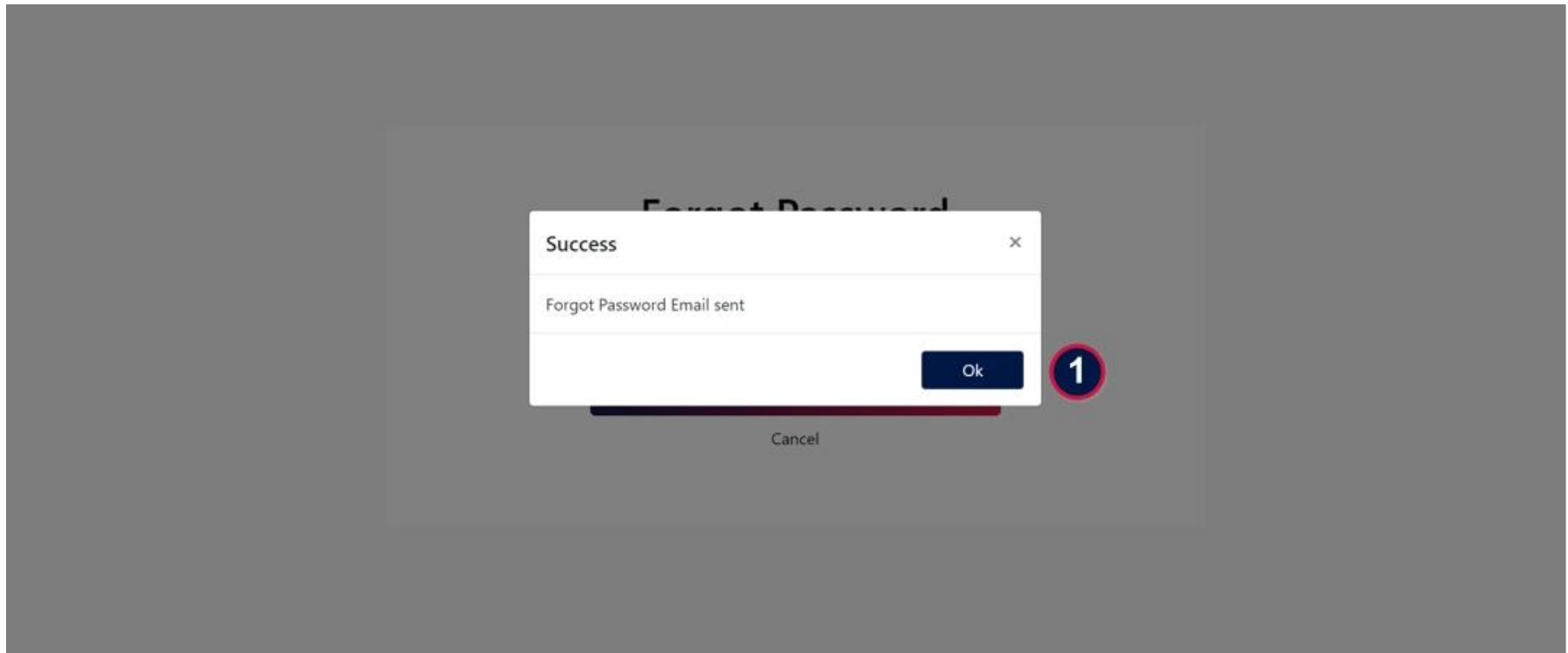


Figure 12 Forgot Password Email Sent Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Login screen



Figure 13 Password Reset Screen

Number	Item	Description
1	Textbox	Allows the user to enter their New Password
2	Textbox	Allows the user to enter confirm their new Password
3	Button	Updates the User's Current Password with the New Password and displays the Success dialog
4	Button	Redirects the User to the Log in screen



Password Reset

Please Enter your new password

Password:

Please enter in a Password ×

Confirm Password:

Error! The Passwords do not match, please try again ×

Submit

Cancel

- 1
- 2
- 3
- 4
- 5
- 6

Figure 14 Password Reset Error Screen



Number	Item	Description
1	Textbox	Allows the user to enter their New Password
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Textbox	Allows the user to enter confirm their new Password
4	Label	This Label is displayed when the Password and Confirm Password do not match
5	Button	Updates the User's Current Password with the New Password and displays the Success dialog
6	Button	Redirects the User to the Log in screen

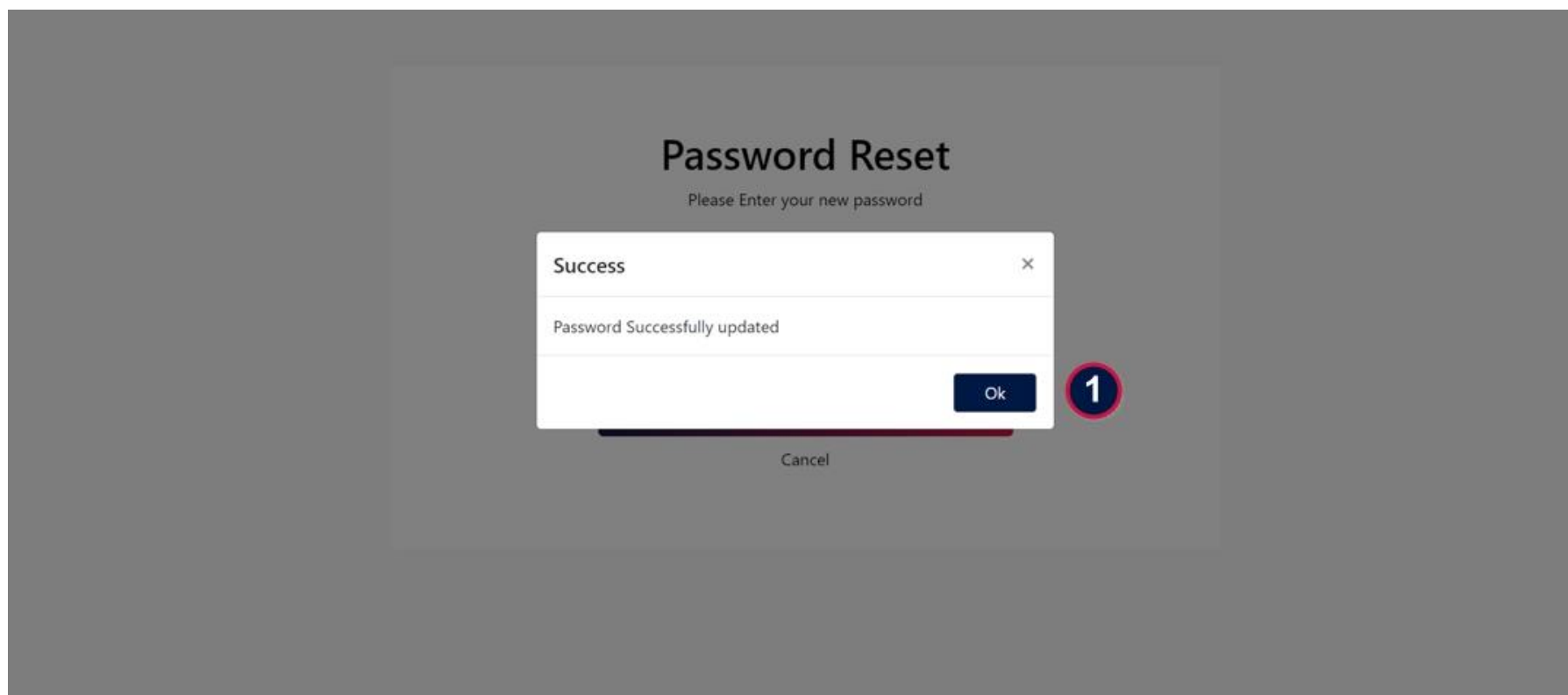


Figure 15 Password Reset Success Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Login screen



1.5 User Management Screen

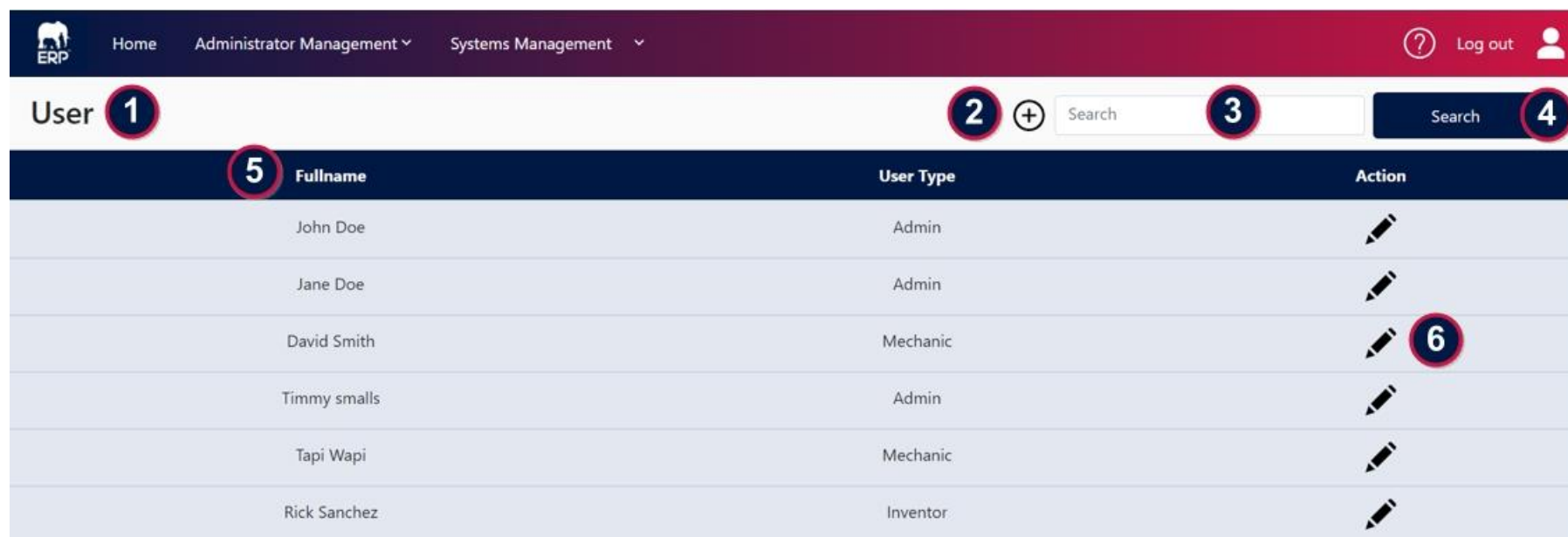


Figure 16 User Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create User page
3	Textbox	The Super Administrator can enter in the User's Full name or User Type
4	Button	Finds the User with the specified details and displays them
5	Table	Table to show all the Users in the system and their User Type's
6	Button	Redirects the Super Administrator to the View User screen



1.6 Create User Screen



The image shows a 'Create User' form with the following fields and callouts:

- 1** User (Title)
- 2** Name: (Label), **3** Jane (Text input)
- 4** Surname: (Label), **5** Doe (Text input)
- 6** Email: (Label), **7** janedoe@gmail.com (Text input)
- 8** Username: (Label), **9** JaneDoeTheAdmin (Text input)
- 10** User Type: (Label), **11** School Administrator (Dropdown menu)
- 12** Phone Number: (Label), **13** 0789898768 (Text input)
- 14** Password: (Label), **15** (Password input)
- 16** Confirm Password: (Label), **17** (Password input)
- 18** Continue (Button)
- 19** Cancel (Button)

Figure 17 Create User Screen 1



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the User
3	Textbox	Allows the Super Administrator to enter a Name
4	Label	Displays the Surname of the User
5	Textbox	Allows the Super Administrator to enter a Surname
6	Label	Displays the Email of the User
7	Textbox	Allows the Super Administrator to enter an Email
8	Label	Displays the Username of the User
9	Textbox	Allows the Super Administrator to enter a Username
10	Label	Displays the User Type of the User
11	Dropdown Menu	Allows the Super Administrator to select a User Type
12	Label	Displays the Phone Number of the User
13	Textbox	Allows the Super Administrator to enter a Phone Number
14	Label	Displays the Password of the User
15	Textbox	Allows the Super Administrator to enter a Password
16	Label	Displays the Confirm Password for the User
17	Textbox	Allows the Super Administrator to confirm the Password
18	Button	Redirects the Super Administrator to the 2 nd User screen
19	Button	Redirects the Super Administrator to the User Management screen



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User

Name: 1

Please enter a Name × 2

Surname: Doe

Email: test@email.com

Username: test

User Type: School Administrator ▼

Phone Number: 0981234123

Password:

Confirm Password:

Error! This form could not be submitted, please × try again 3

Continue Cancel

Figure 18 Create User Error Screen 1



Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen



The screenshot shows a 'Create User' form. At the top is the heading 'User' (1). Below it are two dropdown menus: 'School:' (2) with 'John School' selected (3), and 'Position:' (4) with 'Primary' selected (5). At the bottom are two buttons: 'Create New User' (6) and 'Cancel' (7).

Figure 19 Create User Screen 2

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the School of the User
3	Dropdown Menu	Allows the Super Administrator to select a School
4	Label	Displays the Position of the User
5	Dropdown Menu	Allows the Super Administrator to select a Position
6	Button	Displays the Confirmation dialog
7	Button	Redirects the Super Administrator to the 1 st User screen

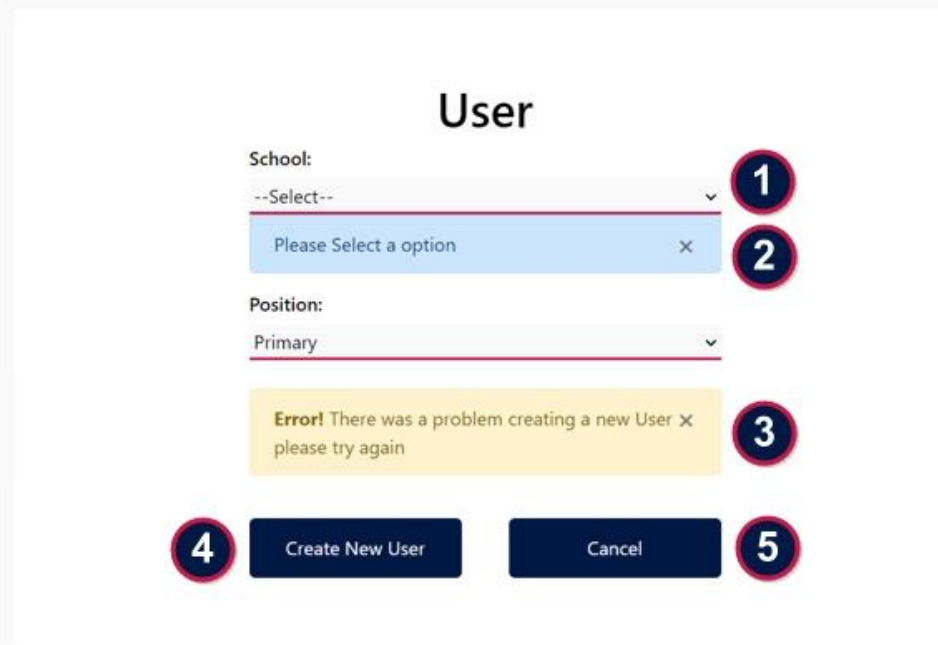


Figure 20 Create User Error Screen 2

Number	Item	Description
1	Dropdown Menu	There is no dropdown menu option selected
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating the User
4	Button	Displays the Confirmation dialog
5	Button	Redirects the Super Administrator to the 1 st User screen

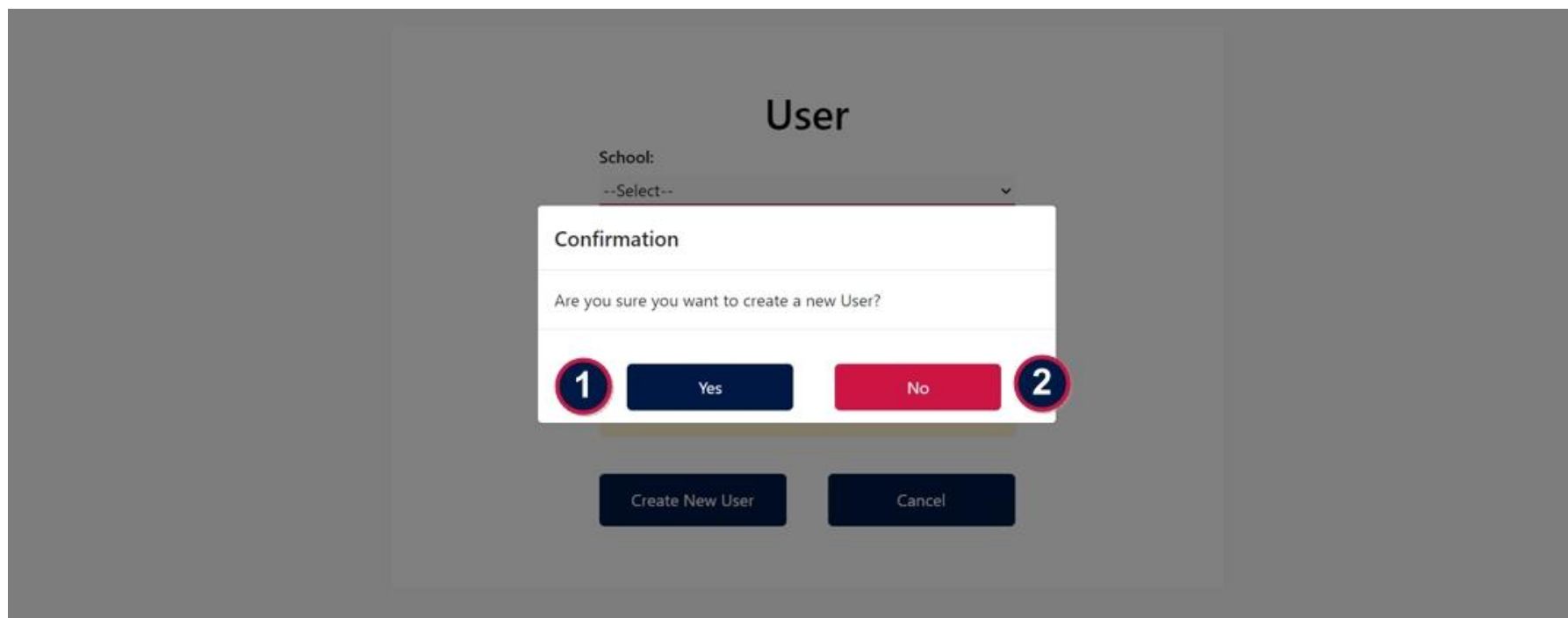


Figure 21 Create User Confirmation Screen

Number	Item	Description
1	Button	Creates a new User with the details from the 1 st User Screen, 2 nd User Screen and saves the details to the database
2	Button	Returns the Super Administrator to the 2 nd User Screen

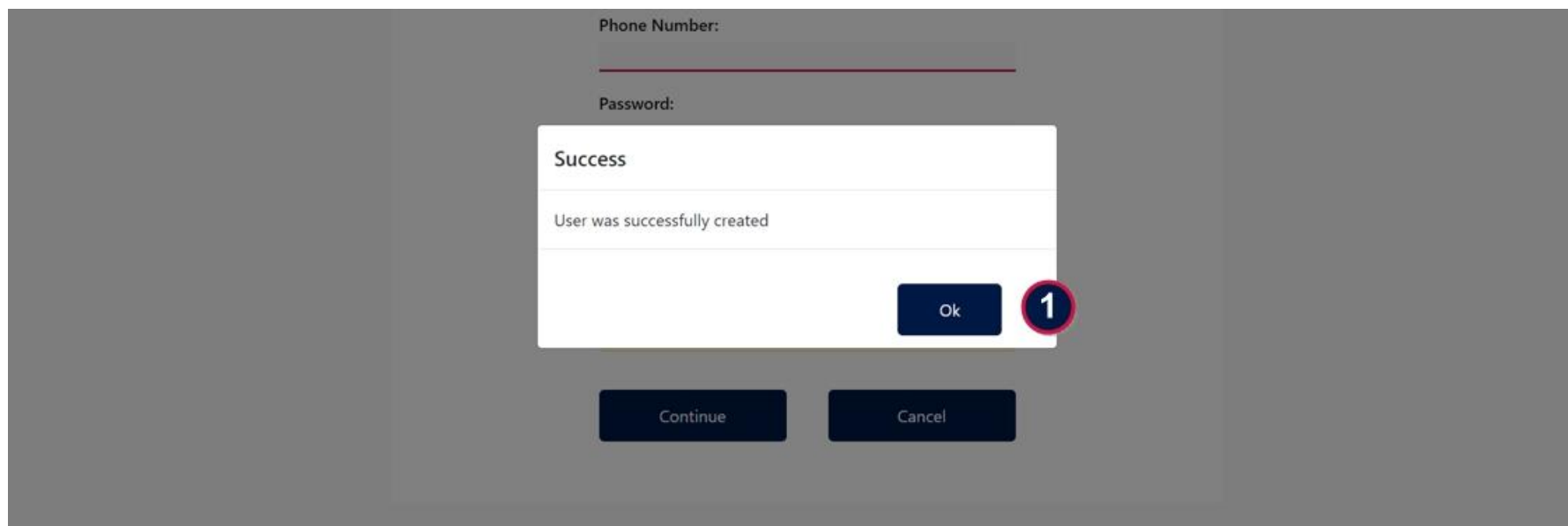


Figure 22 User Created Success Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the User management screen



1.7 View User Screen

The screenshot displays the 'View User' interface. At the top center is the title 'User' followed by a red circle containing the number 1. Below this are six form fields, each with a label and a value, and a red circle with a number to its right. The fields are: 'Name' with value 'Jamie' (callout 2 and 3), 'Surname' with value 'Doe' (callout 4 and 5), 'Email' with value 'JamieDoe@gmail.com' (callout 6 and 7), 'Username' with value '123Jamie' (callout 8 and 9), 'User Type' with value 'School Administrator' and a dropdown arrow (callout 10 and 11), and 'Phone Number' with value '0724156672' (callout 12 and 13). At the bottom are two dark blue buttons: 'Update' (callout 14) and 'Delete' (callout 15).

Figure 23 View User Screen 1



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the User
3	Textbox	Allows the Super Administrator to enter a Name
4	Label	Displays the Surname of the User
5	Textbox	Allows the Super Administrator to enter a Surname
6	Label	Displays the Email of the User
7	Textbox	Allows the Super Administrator to enter an Email
8	Label	Displays the Username of the User
9	Textbox	Allows the Super Administrator to enter a Username
10	Label	Displays the User Type of the User
11	Dropdown Menu	Allows the Super Administrator to select a User Type
12	Label	Displays the Phone Number of the User
13	Textbox	Allows the Super Administrator to enter a Phone Number
14	Button	Redirects the Super Administrator to the 2 nd User screen
15	Button	Displays the Delete Confirmation Dialog



User

Name: 1

Please enter a Name × 2

Surname: Doe

Email: JamieDoe@gmail.com

Username: JamieDoe

User Type: School Administrator ▼

Phone Number: 092828371

Error! There was a problem submitting this form, please try again × 3

4 Update 5 Delete

Figure 24 View User Error Screen 1



Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen
4	Button	Redirects the Super Administrator to the 2 nd User screen
5	Button	Displays the Delete Confirmation Dialog



The screenshot shows a user management interface titled "User 1". It contains two dropdown menus: "School:" with "John School" selected, and "Position:" with "Secondary" selected. Below these are two buttons: "Update User" and "Cancel". Numbered callouts are placed around the interface: 1 points to the title, 2 to the "School:" label, 3 to the "School:" dropdown, 4 to the "Position:" label, 5 to the "Position:" dropdown, 6 to the "Update User" button, and 7 to the "Cancel" button.

Figure 25 View User Screen 2

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the School of the User
3	Dropdown Menu	Allows the Super Administrator to select a School
4	Label	Displays the Position of the User
5	Dropdown Menu	Allows the Super Administrator to select a Position
6	Button	Displays the Update Confirmation dialog
7	Button	Redirects the Super Administrator to the 1 st User screen



Virtual Visionaries
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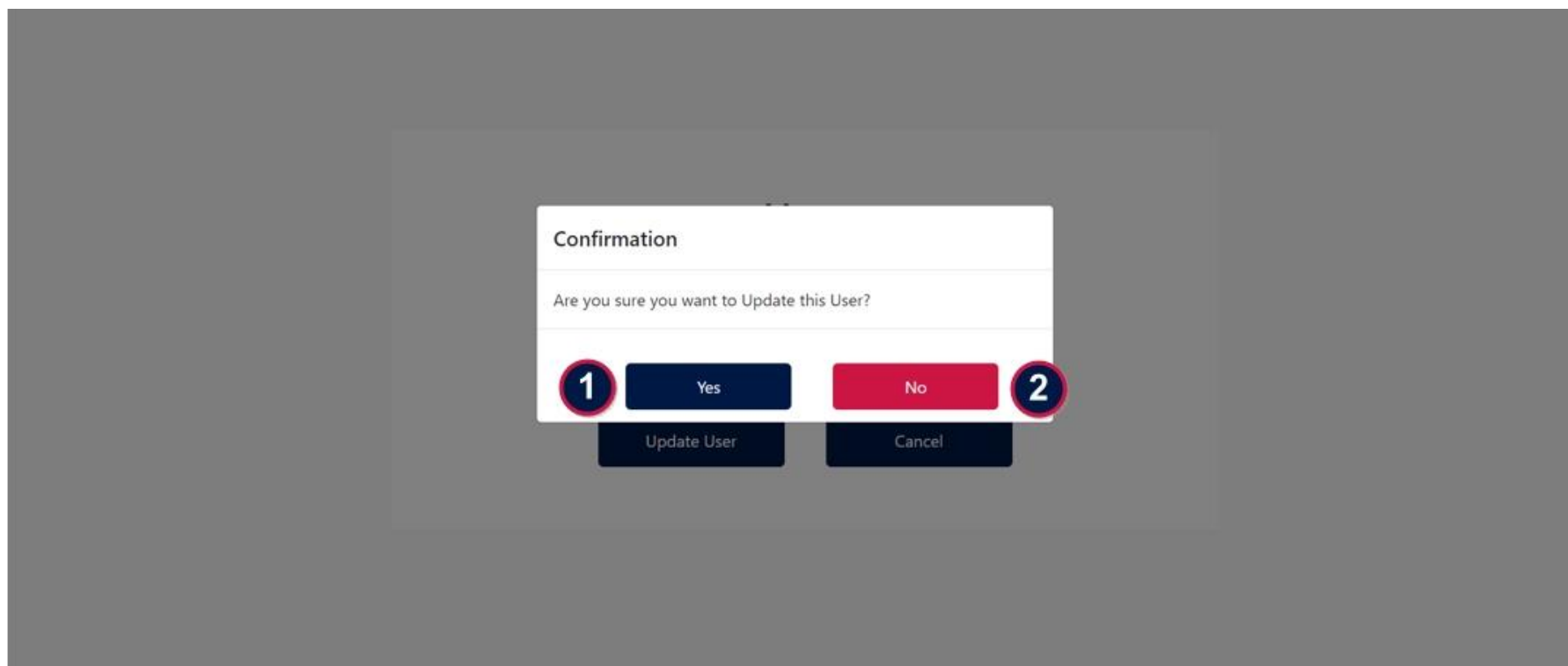


Figure 26 Update User Confirmation Screen

Number	Item	Description
1	Button	Updates the User with the details from the 1 st User Screen, 2 nd User Screen and saves the details to the database
2	Button	Returns the Super Administrator to the 2 nd User Screen

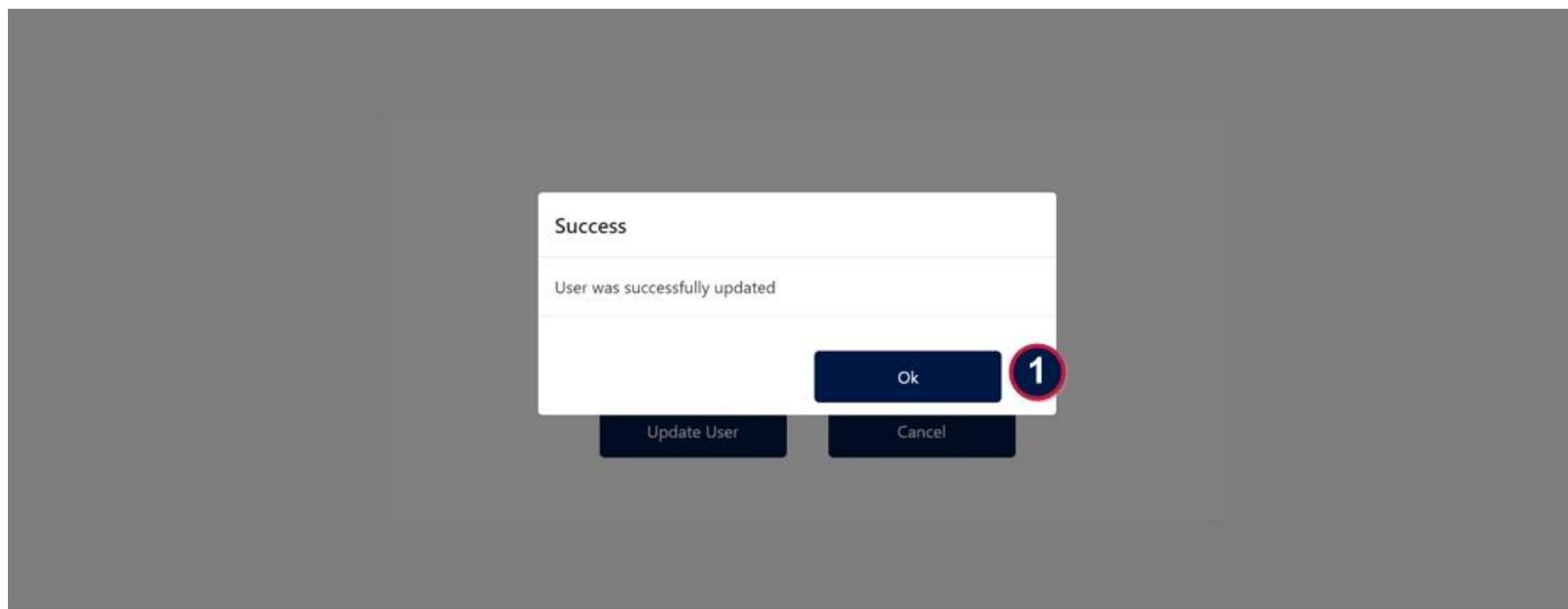


Figure 27 User Update Success Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the User management screen



Name:
Jamie

Surname:
Doe

Phone Number:
0721245678

Update Delete

Confirmation

Are you sure you want to Delete this User?

1 Yes No 2

Followed by:

--Select--

Success

User was successfully Deleted

Ok 3

Figure 28 Delete User Confirmation and Success Screens



Number	Item	Description
1	Button	Removes the User and their details from the database
2	Button	Returns the Super Administrator to the 2 nd User Screen
3	Button	Redirects the Super Administrator back to the User management screen



1.8 User Type Management Screen

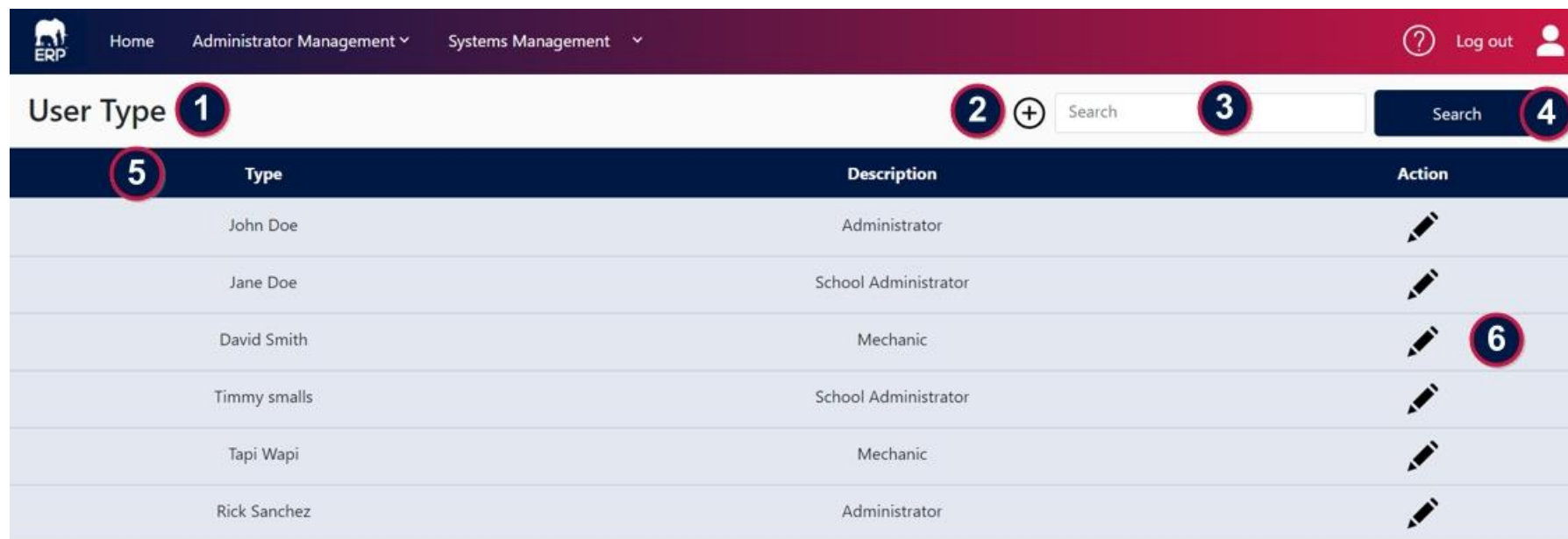


Figure 29 User Type Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create User Type page
3	Textbox	The Super Administrator can enter in the User Type's Type
4	Button	Finds the User Type with the specified details and displays them
5	Table	Table to show all the User Types in the system and their description's
6	Button	Redirects the Super Administrator to the View User Type screen



1.9 Create User Type Screen

The screenshot shows a 'User Type' creation form. It has a title 'User Type' at the top. Below it are three input fields: 'Type' with the value 'Inventor', 'Description' with the value 'Invents stuff for schools', and 'Permissions' with a dropdown menu showing 'Medium'. At the bottom are two buttons: 'Create' and 'Cancel'. Numbered callouts (1-9) are placed around the form: 1 points to the title, 2 to the 'Type' label, 3 to the 'Inventor' text, 4 to the 'Description' label, 5 to the 'Invents stuff for schools' text, 6 to the 'Permissions' label, 7 to the 'Medium' dropdown, 8 to the 'Create' button, and 9 to the 'Cancel' button.

Figure 30 Create User Type Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Type of the User
3	Textbox	Allows the Super Administrator to enter a Type
4	Label	Displays the Description of the User
5	Textbox	Allows the Super Administrator to enter a Description
6	Label	Displays the Permissions of the User
7	Dropdown Menu	Allows the Super Administrator to select a Permissions
8	Button	Displays the Create Confirmation dialog
9	Button	Redirects the Super Administrator to the User Type Management screen



User Type

Type:

Please enter a Type ×

Description:

Invents things

Permissions:

Medium

Error! There was a problem creating a new User Type please try again

Create

Cancel

Figure 31 Create User Type Error Screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a User Type

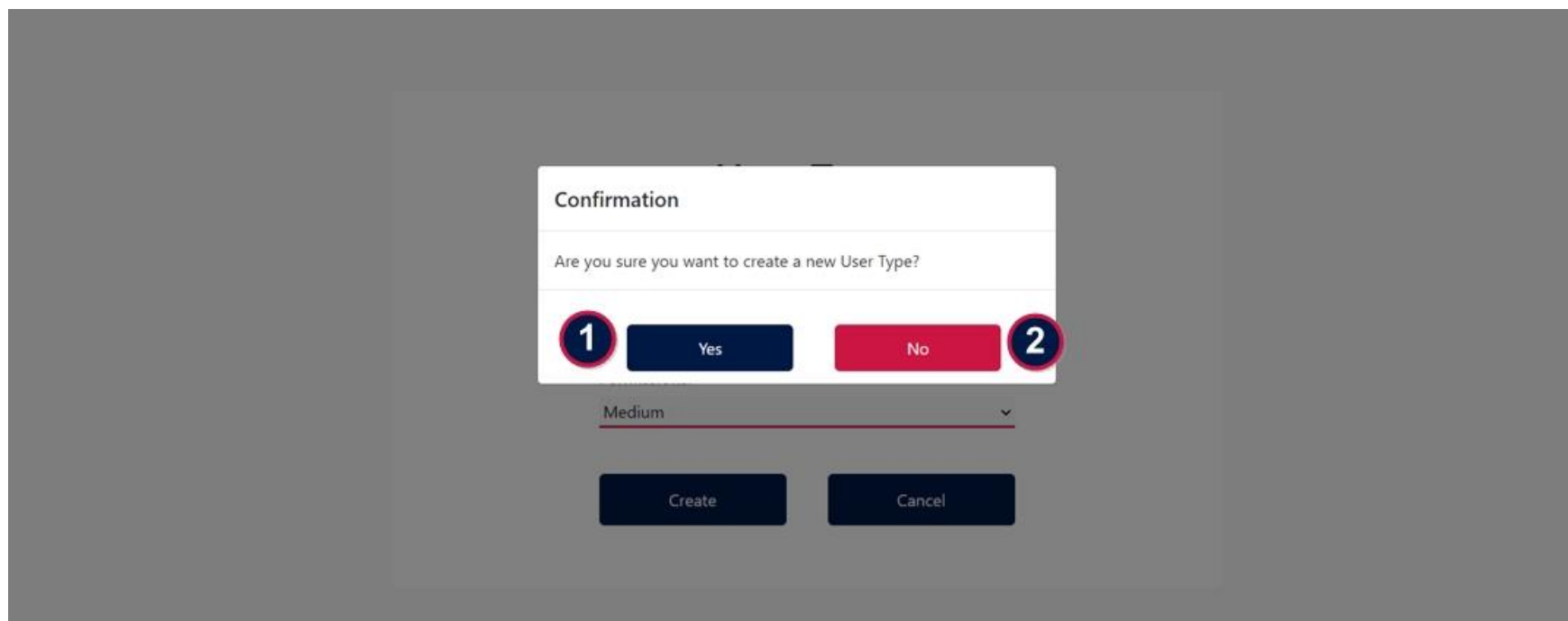


Figure 32 Create User Type Confirmation Screen

Number	Item	Description
1	Button	Creates a new User Type with the details from the Create User Type screen and saves the details to the database
2	Button	Returns the Super Administrator to the Create User Type screen

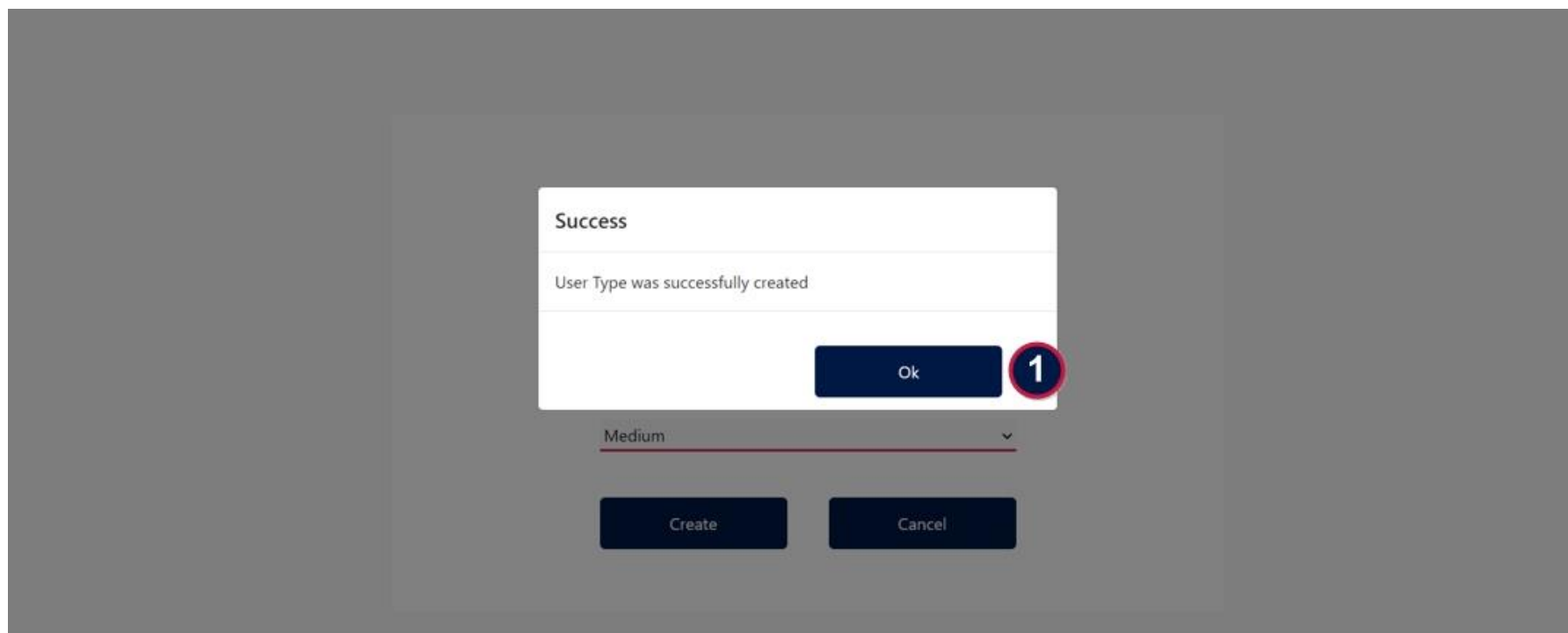


Figure 33 Create User Type Success Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the User Type management screen



1.10 View User Type Screen

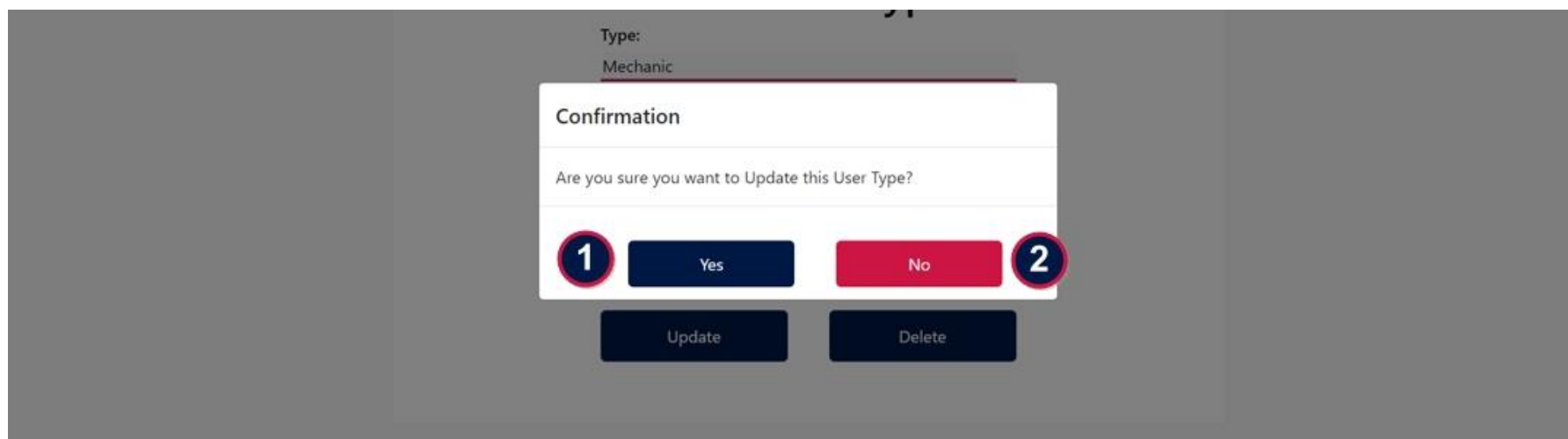
The screenshot shows a 'User Type' form with the following elements:

- 1**: Title 'User Type' at the top center.
- 2**: Label 'Type:' next to a text input field.
- 3**: The text 'Inventor' entered in the 'Type' field.
- 4**: Label 'Description:' next to a text input field.
- 5**: The text 'Creates new things' entered in the 'Description' field.
- 6**: Label 'Permissions:' next to a dropdown menu.
- 7**: The text 'Medium' selected in the 'Permissions' dropdown.
- 8**: 'Update' button.
- 9**: 'Delete' button.

Figure 34 View User Type Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Type of the User
3	Textbox	Allows the Super Administrator to enter a Type
4	Label	Displays the Description of the User
5	Textbox	Allows the Super Administrator to enter a Description
6	Label	Displays the Permissions of the User
7	Dropdown Menu	Allows the Super Administrator to select a Permissions
8	Button	Displays the Update Confirmation dialog
9	Button	Displays the Delete Confirmation dialog



Followed by:

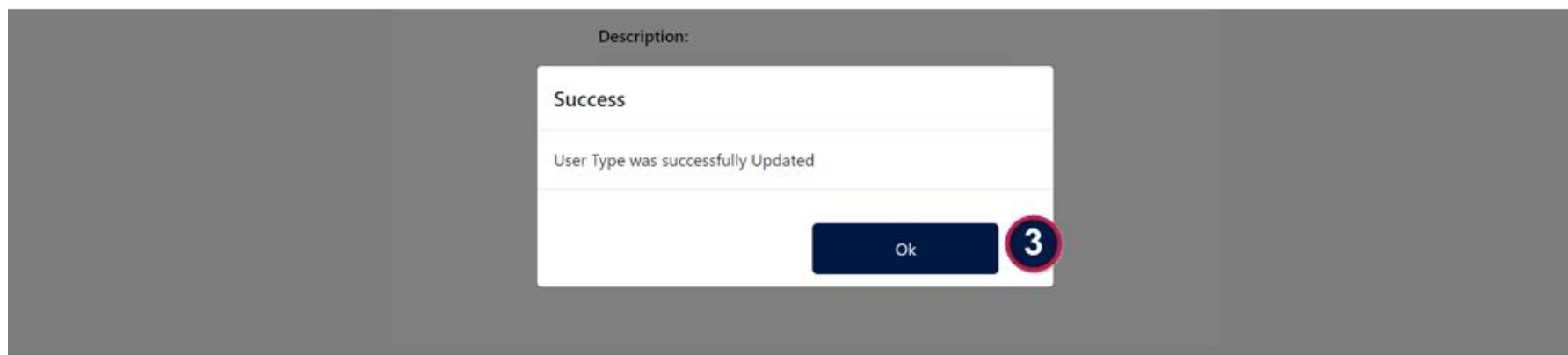
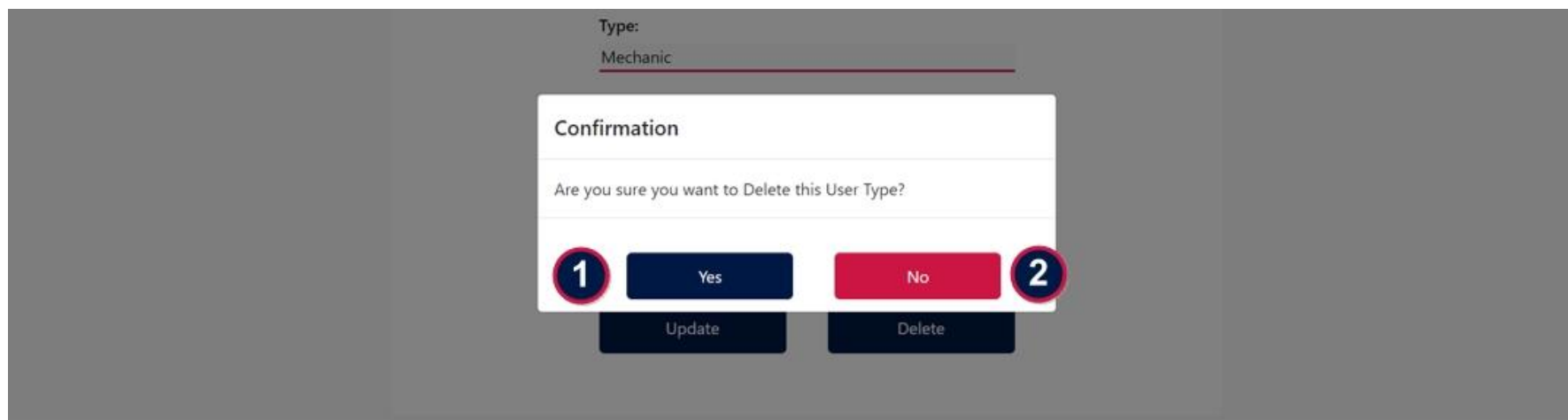


Figure 35 Update User Type Confirmation and Success Screens



Number	Item	Description
1	Button	Updates the User Type with the details from the View User Type screen and saves the details to the database
2	Button	Returns the Super Administrator to the View User Type screen
3	Button	Redirects the Super Administrator back to the User Type management screen



Followed by:

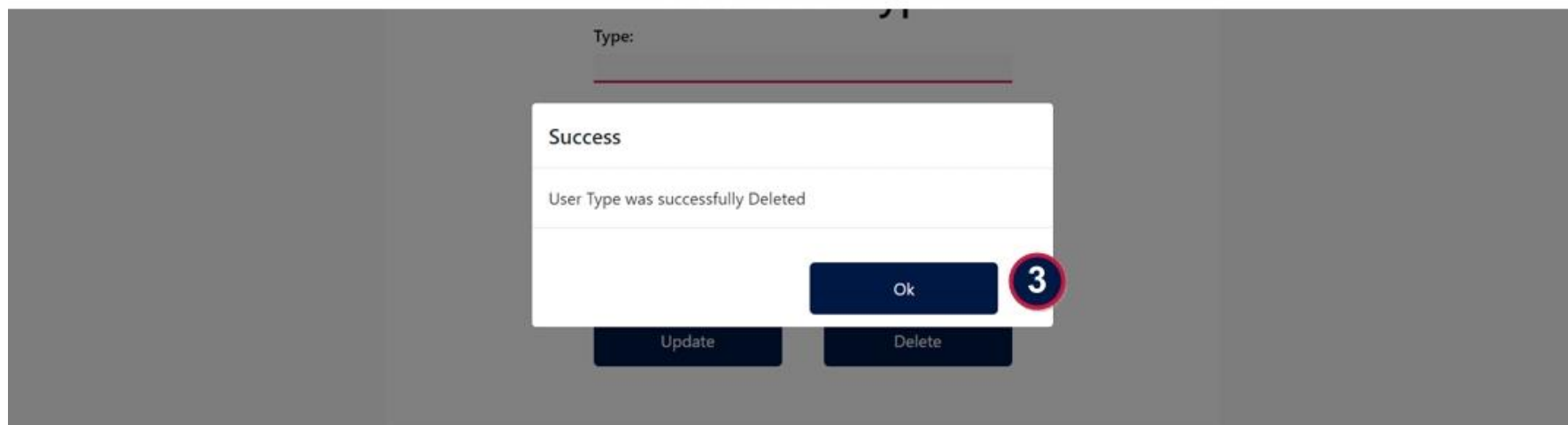


Figure 36 Delete User Type Confirmation and Success Screen



Number	Item	Description
1	Button	Removes the User Type and its details from the database
2	Button	Returns the Super Administrator to the View User Type screen
3	Button	Redirects the Super Administrator back to the User Type management screen



2 Sub-System 2: Mechanic Schedule

2.1 Mechanic Calendar Screen

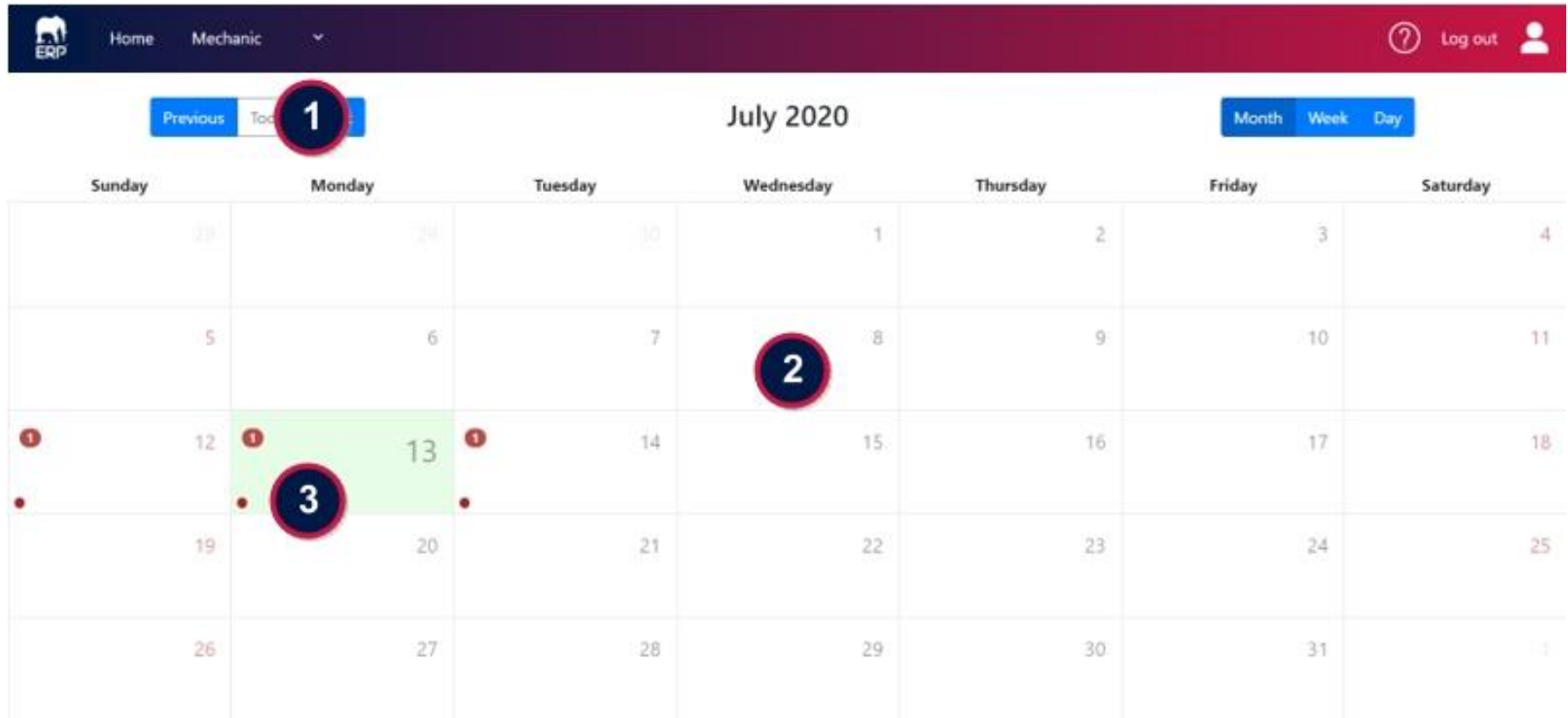
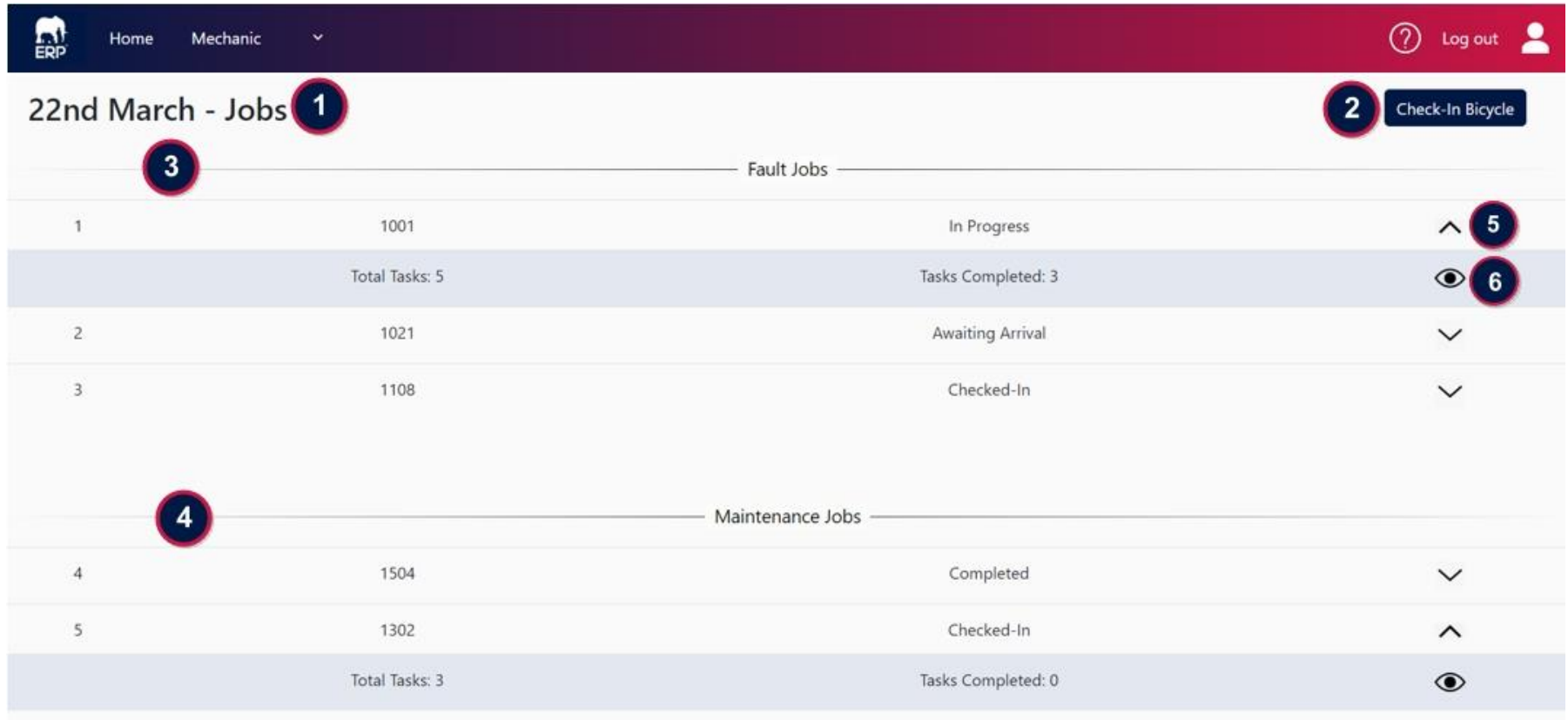


Figure 37 Mechanic Calendar Screen



Number	Item	Description
1	Button	Allows the Mechanic to navigate the calendar.
2	Calendar	Displays the days of a month for the Mechanic to see
3	Day	Displays the Job Screen for a Day

2.2 Job Screen



22nd March - Jobs

Fault Jobs

Job ID	Bike ID	Status	Actions
1	1001	In Progress	Expand (5)
Total Tasks: 5		Tasks Completed: 3	View (6)
2	1021	Awaiting Arrival	Collapse
3	1108	Checked-In	Collapse

Maintenance Jobs

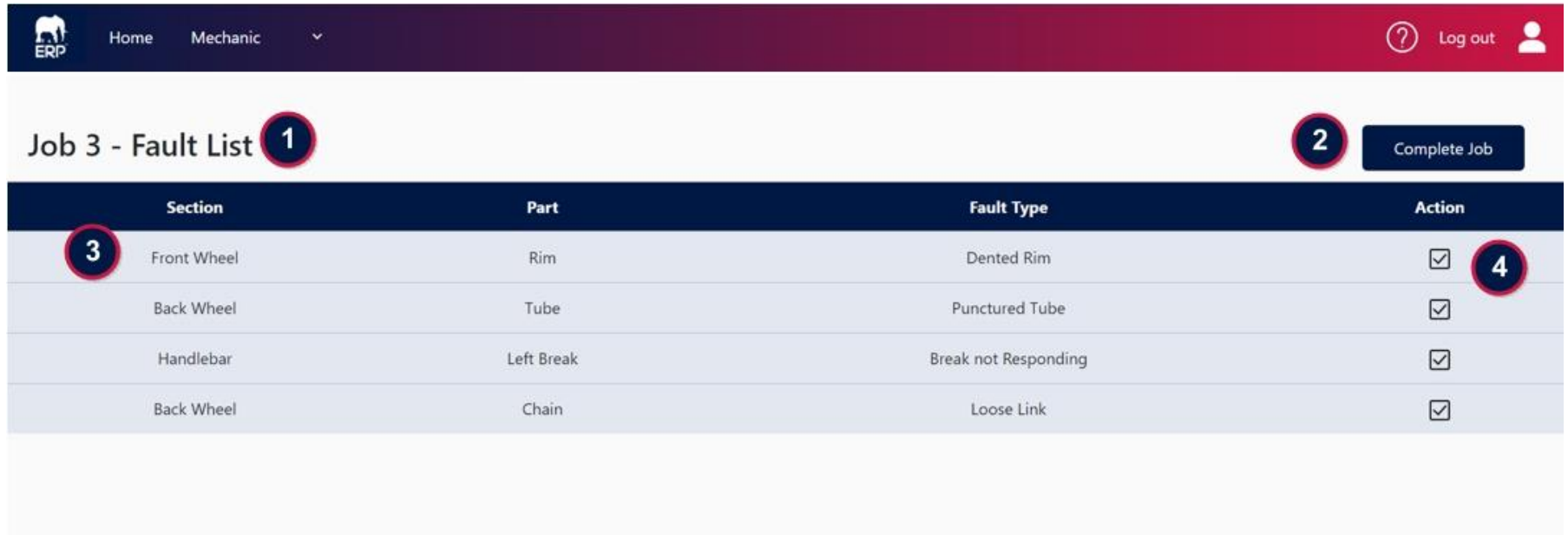
Job ID	Bike ID	Status	Actions
4	1504	Completed	Collapse
5	1302	Checked-In	Expand
Total Tasks: 3		Tasks Completed: 0	View

Figure 38 Job Screen



Number	Item	Description
1	Label	Displays the screen heading with the date
2	Button	Displays the QR Scan screen
3	Table	Table to show all the Fault Job's in the system for the day
4	Table	Table to show all the Maintenance Job's in the system for the day
5	Button	Expands/collapses the details for an entry
6	Button	Displays the Job List screen

2.3 Job List Screen



Job 3 - Fault List

Complete Job

Section	Part	Fault Type	Action
Front Wheel	Rim	Dented Rim	☒
Back Wheel	Tube	Punctured Tube	☒
Handlebar	Left Break	Break not Responding	☒
Back Wheel	Chain	Loose Link	☒

Figure 39 Job List Screen



Number	Item	Description
1	Label	Displays the screen heading with the job number
2	Button	Displays the Success Dialog
3	Table	Table to show all the Job's Details in the system for the Specified Job
4	Button	Displays the Fix Fault Screen



Home User management ▾ Bicycle Management ▾ System Management ▾ Log in

Job 3 - Fault List

Complete Job

Section	Part	Fault Type	Action
Front Wheel	Rim	Dented Rim	☒
Back Wheel	Tube	Punctured Tube	☒
Handlebar	Left	Handling	☒
Back Wheel	C	k	☒

Success

The Job was completed successfully.

1 Ok

Information

[Contact VVS Team](#)[About](#)

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Figure 40 Job Completed Successfully Screen



Number	Item	Description
1	Button	Redirects the Mechanic back to the Job screen



3 Sub-System 3: Tracking Hardware

3.1 Antenna Management Screen

The screenshot shows the Antenna Management interface. At the top is a navigation bar with 'Home', 'Administrator Management', and 'Systems Management'. The main header 'Antenna Management' is circled with a red '1'. To its right is a search bar with a '+' icon (circled with a red '2'), a search input field (circled with a red '3'), and a 'Search' button (circled with a red '4'). Below the header is a table with four columns: 'Antenna Serial Number' (circled with a red '5'), 'Co-ordinates', 'Antenna Status', and 'Action'. The table contains six rows of data. The 'Action' column for the second row (8623598-E60) is circled with a red '6'.

5 Antenna Serial Number	Co-ordinates	Antenna Status	Action
5656598-E58	15.8946° S, 48.2327° E	Working	
8623598-E60	25.7546° S, 28.2327° E	Working	6
5656598-E56	65.7546° S, 89.2327° E	Broken	
5566598-E89	25.7546° S, 28.2327° E	Working	
5656598-E89	55.7566° S, 89.2894° E	Working	
5656598-E85	15.8946° S, 48.2327° E	Working	

Figure 41 Antenna Management screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Antenna page
3	Textbox	The Super Administrator can enter in the Antenna's Co-ordinates or Serial Number
4	Button	Finds the Antenna with the specified details and displays them
5	Table	Table to show all the Antennas in the system
6	Button	Redirects the Super Administrator to the View Antenna screen



3.2 Create Antenna Screen

The screenshot shows a 'Create Antenna' form with the following fields and controls:

- 1**: Title 'Antenna' with a red circle icon.
- 2**: 'Antenna Serial Number' label.
- 3**: Text input field containing '5656598-E58'.
- 4**: 'Antenna Status' label.
- 5**: Dropdown menu showing 'Working'.
- 6**: 'Co-ordinates' label.
- 7**: Text input field containing '15.8946° S, 48.2327° E'.
- 8**: 'Suburb' label.
- 9**: Dropdown menu showing 'Hatfield'.
- 10**: 'Date Installed' label.
- 11**: Text input field containing '2020/07/12' with a calendar icon.
- 12**: 'Create' button.
- 13**: 'Cancel' button.

Figure 42 Create Antenna screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Serial Number of the Antenna
3	Textbox	Allows the Super Administrator to enter a Serial Number
4	Label	Displays the Status of the Antenna
5	Dropdown	Allows the Super Administrator to select a Status
6	Label	Displays the Co-ordinates of the Antenna
7	Textbox	Allows the Super Administrator to enter Co-ordinates
8	Label	Displays the Suburb of the Antenna
9	Dropdown	Allows the Super Administrator to select a Suburb
10	Label	Displays the Date Installed of the Antenna
11	Date Picker	Allows the Super Administrator to select a Date Installed
12	Button	Redirects to the confirmation dialog.
13	Button	Redirects the Super Administrator to the Antenna Management screen



Antenna

Antenna Serial Number
5656598-E58

Antenna Status
Working

Co-ordinates

Please enter Co-ordinates

Suburb
Hatfield

Date Installed
2020/07/12

Error! There was an issue creating a new Antenna.
Please try again.

Create Cancel

Figure 43 Create Antenna error screen



Number		Item	Description
1		Textbox	This textbox has been left empty on purpose
2		Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3		Label	This Label is displayed when there is an error creating an Antenna



Antenna

Antenna Serial Number
5656598-E58

Antenna Status

Confirmation

Are you sure you want to add this Antenna?

1 Yes 2 No

Hatfield

Date Installed
2020/07/12

Error! There was an issue creating a new Antenna.
Please try again.

Create Cancel

Figure 45 Create Antenna confirmation screen

Followed by:

Antenna

Antenna Serial Number

Antenna Status

Success

Antenna has been added successfully.

3 Ok

Date installed
yyyymmdd

Create Cancel

Figure 44 Create Antenna successful screen



Number	Item	Description
1	Button	Creates a new Antenna with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Antenna Screen
3	Buttons	Return the Administrator to the Antenna Management screen.



3.3 View Antenna Screen

The screenshot shows the 'View Antenna' screen with the following elements:

- 1**: Title 'Antenna' with a red circle icon.
- 2**: 'Antenna Serial Number:' label.
- 3**: Text input field containing '5656598-E89'.
- 4**: 'Status:' label.
- 5**: Dropdown menu showing 'Working'.
- 6**: 'Co-ordinates:' label.
- 7**: Text input field containing '55.7566° S, 89.2894° E'.
- 8**: 'Suburb:' label.
- 9**: Dropdown menu showing 'Mafikeng'.
- 10**: 'Date Installed:' label.
- 11**: Text input field containing '2020/07/12' with a calendar icon.
- 12**: 'Update' button.
- 13**: 'Delete' button.

Figure 46 View Antenna screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Serial Number of the Antenna
3	Textbox	Allows the Super Administrator to enter a Serial Number
4	Label	Displays the Status of the Antenna
5	Dropdown	Allows the Super Administrator to select a Status
6	Label	Displays the Co-ordinates of the Antenna
7	Textbox	Allows the Super Administrator to enter Co-ordinates
8	Label	Displays the Suburb of the Antenna
9	Dropdown	Allows the Super Administrator to select a Suburb
10	Label	Displays the Date Installed of the Antenna
11	Date Picker	Allows the Super Administrator to select a Date Installed
12	Button	Redirects to the update confirmation dialog.
13	Button	Redirects to the delete confirmation dialog.



Antenna

Antenna Serial Number:

5656598-E58

Status:

Working

Co-ordinates:

Please enter Co-ordinates

Suburb:

Mafikeng

Date Installed:

2020/07/11

Error! There was an issue submitting this form.
Please try again.

Update

Delete

Figure 47 View Antenna Error screen



Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error updating an Antenna



Antenna

Antenna Serial Number:

Confirmation

Are you sure you want to update this Antenna?

1

Yes

No

2

Select

Date Installed:

yyyy/mm/dd

Update

Delete

Figure 48 Update Antenna confirmation screen



Followed by:

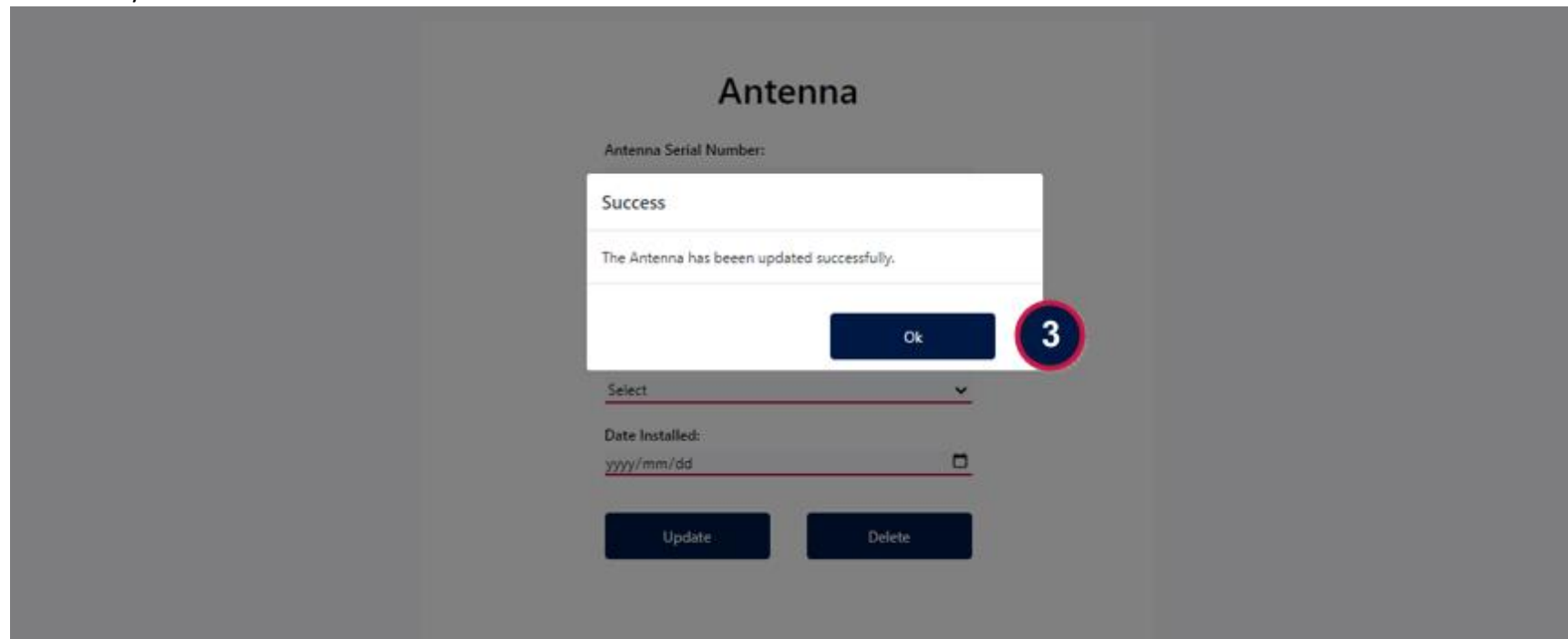


Figure 49 Update Antenna successful screen



Number	Item	Description
1	Button	Updates an Antenna with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Antenna Screen
3	Buttons	Return the Administrator to the Antenna Management screen.

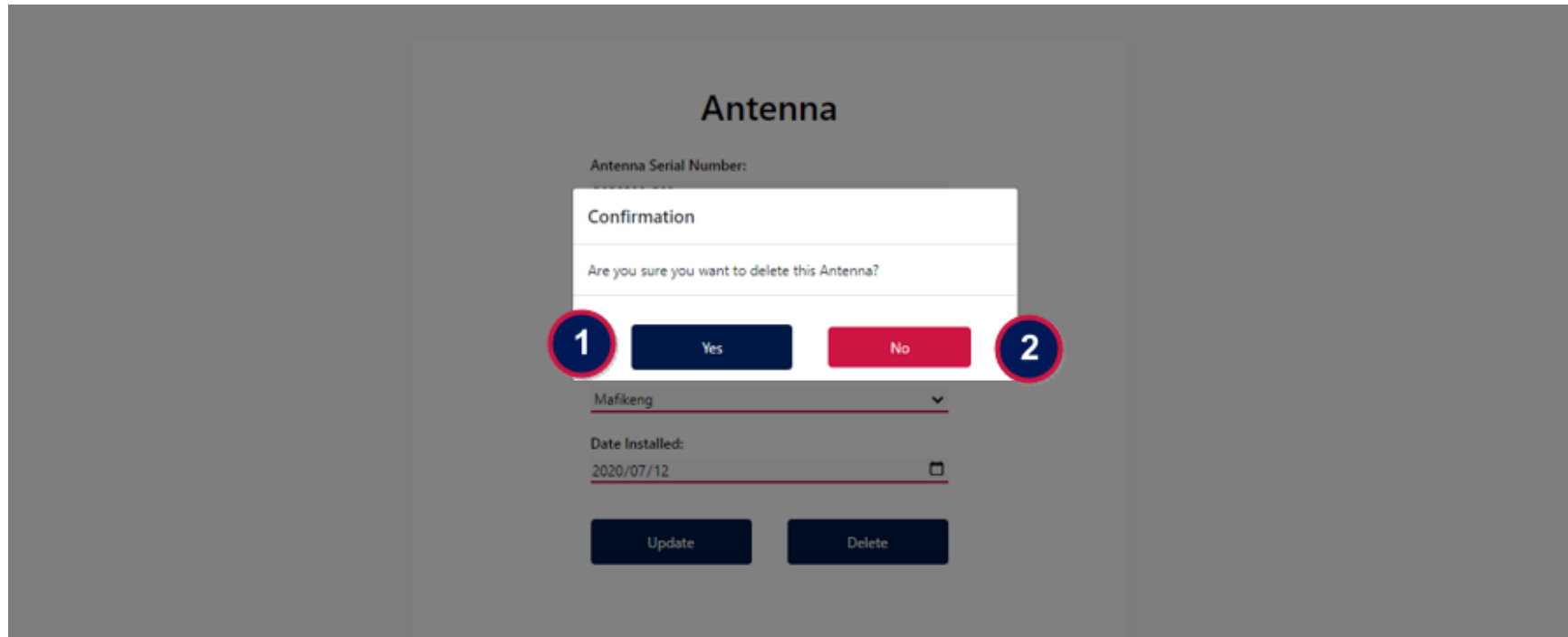


Figure 50 Delete Antenna confirmation screen

Followed by:

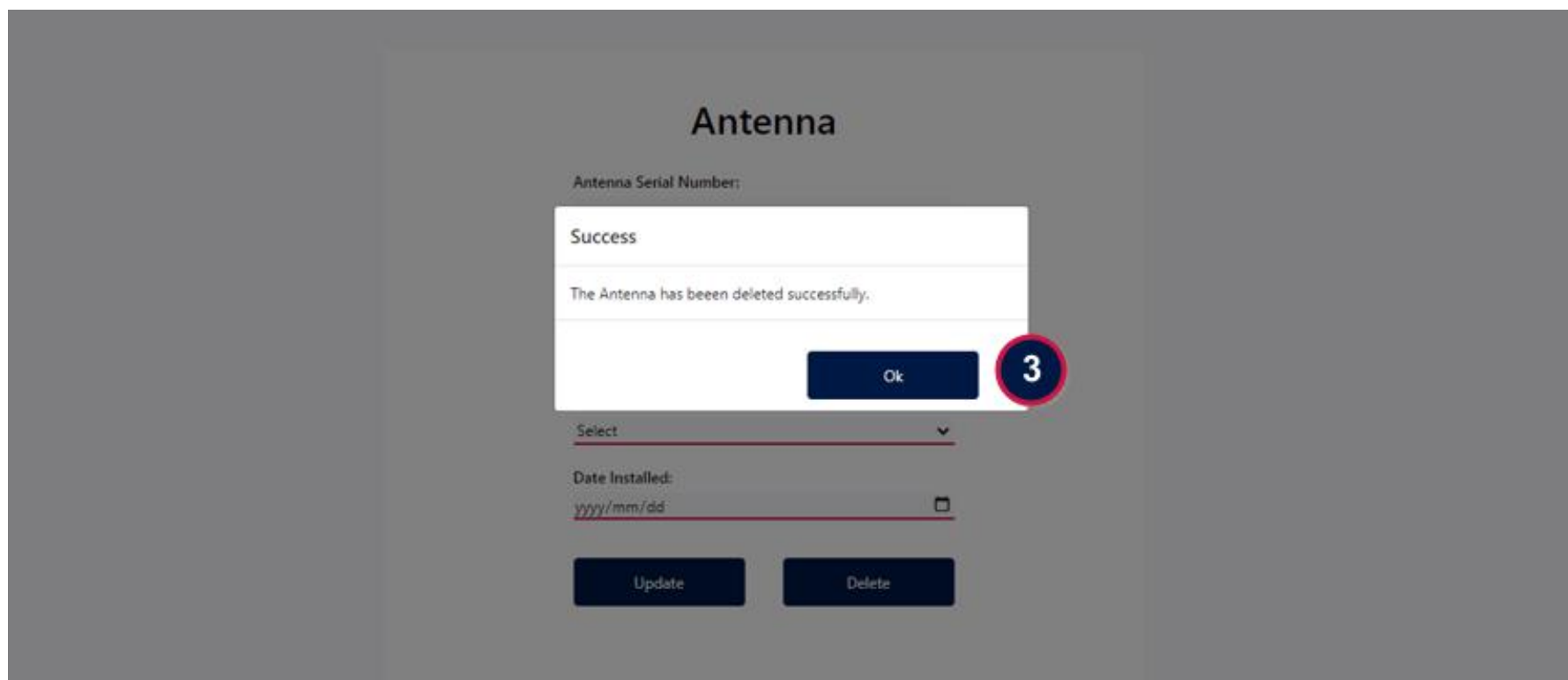


Figure 51 Delete Antenna successful screen

Number	Item	Description
1	Button	Deletes an Antenna with the details and removes the details from the database
2	Button	Returns the Super Administrator to the Antenna Screen
3	Buttons	Return the Administrator to the Antenna Management screen.

3.4 Tag Management Screen

Tag Management 1				
		2 + Search	3	4 Search
5 Tag Serial Number	Bicycle Code	Tag Status	Action	
5656598-E58	10111	Assigned		
8623598-E60	10122	Assigned		6
5656598-E56		Available		
5566598-E89	10123	Assigned		
5656598-E89		Available		
5656598-E85		Available		

Figure 52 Tag Management screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Tag page
3	Textbox	The Super Administrator can enter in the Tag's Bicycle Code or Serial Number
4	Button	Finds the Tag with the specified details and displays them
5	Table	Table to show all the Tag in the system
6	Button	Redirects the Super Administrator to the View Tag screen

3.5 Create Tag Screen

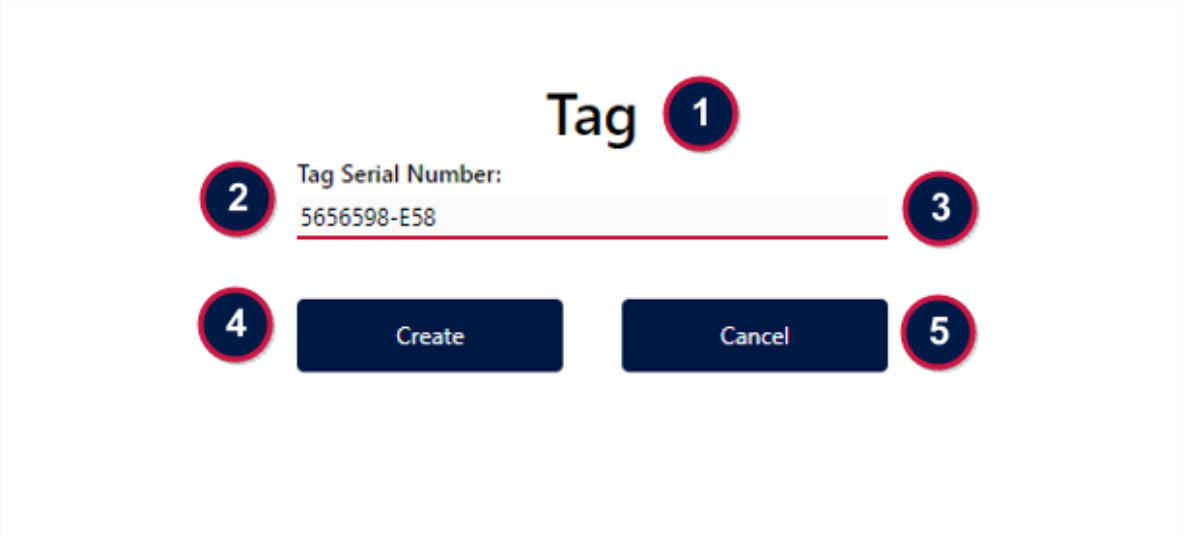


Figure 53 Create Tag screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Serial Number of the Tag
3	Textbox	Allows the Super Administrator to enter a Serial Number
4	Button	Redirects to the confirmation dialog.
5	Button	Redirects the Super Administrator to the Tag Management screen



Figure 54 Create Tag error screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a Tag.

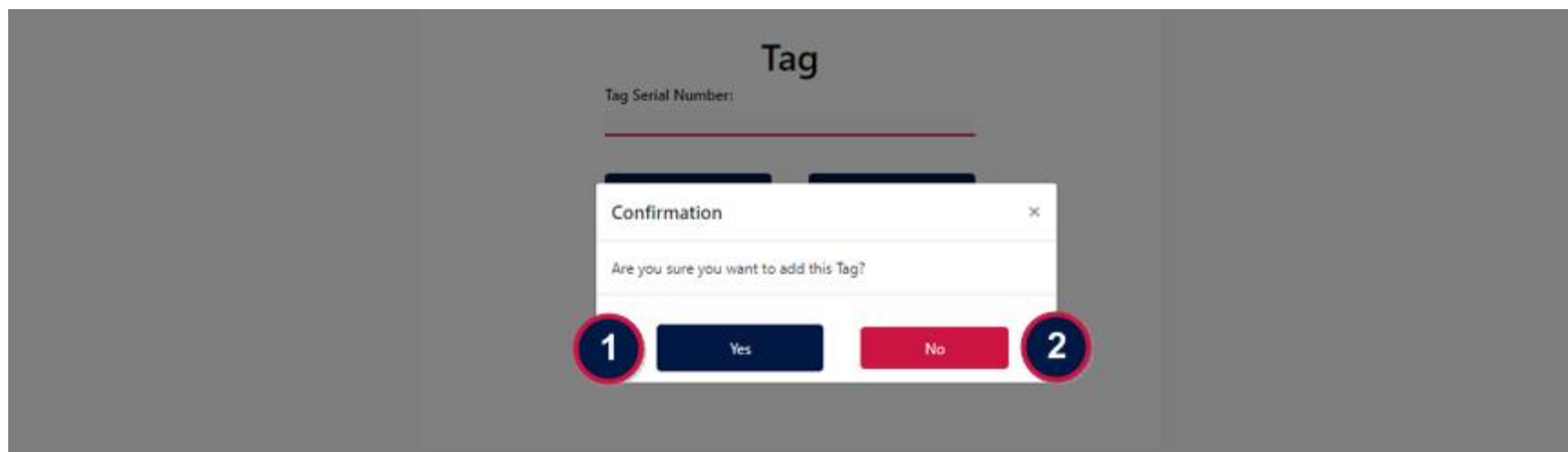


Figure 55 Create Tag confirmation screen

Followed by:

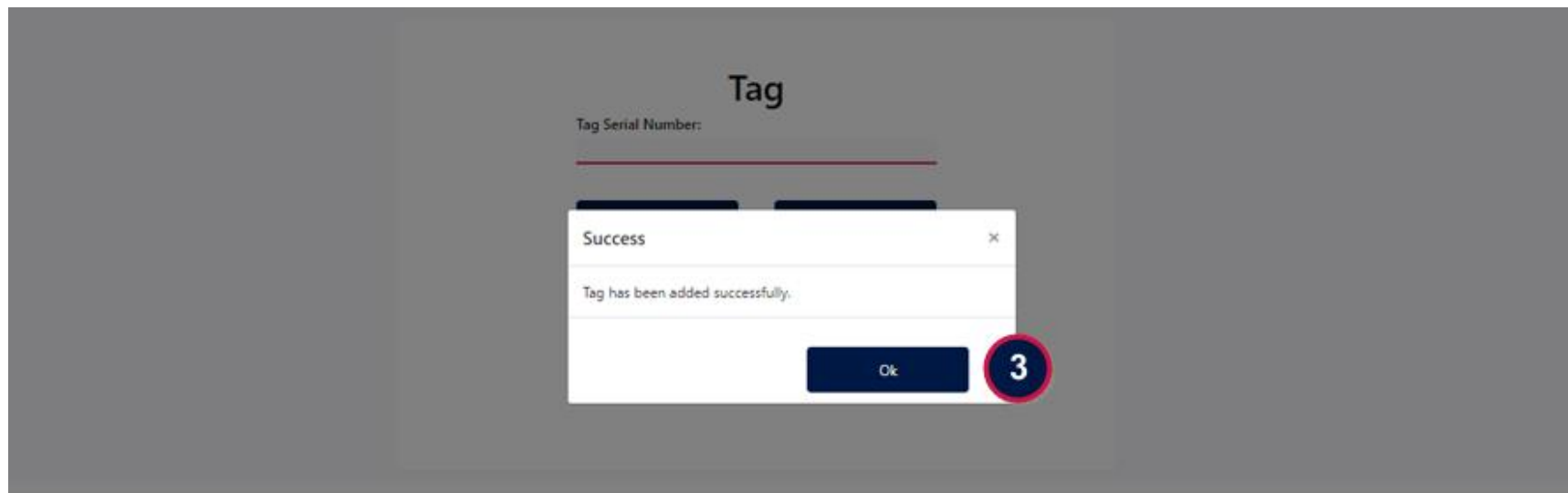


Figure 56 Create Tag successful screen



Number	Item	Description
1	Button	Creates a new Tag with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Tag Screen
3	Buttons	Return the Super Administrator to the Tag Management screen.



3.6 View Tag Screen

The screenshot shows the 'View Tag' screen with the following elements:

- 1** Tag
- 2** Tag Serial Number: 5656598-E58
- 3** (Callout for the serial number input field)
- 4** Tag Status: Working
- 5** (Callout for the status dropdown menu)
- 6** Date Installed: 2020/07/12
- 7** (Callout for the date input field)
- 8** Update button
- 9** Delete button

Figure 57 View Tag screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Serial Number of the Tag
3	Textbox	Allows the Super Administrator to enter a Serial Number
4	Label	Displays the Status of the Tag
5	Dropdown	Allows the Super Administrator to select a Status
6	Label	Displays the Co-ordinates of the Antenna
7	Date picker	Allows the Super Administrator to enter a Date
12	Button	Redirects to the update confirmation dialog.
13	Button	Redirects to the delete confirmation dialog.

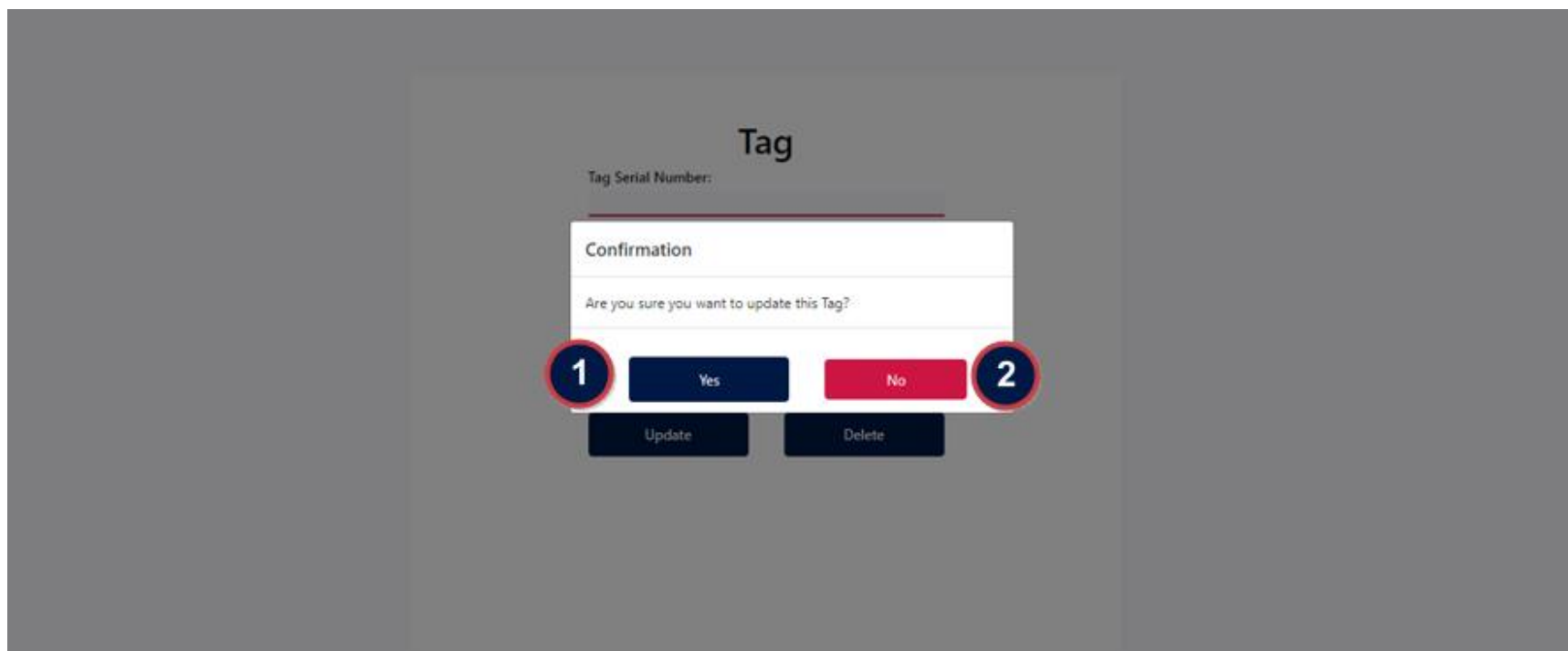


Figure 58 Update Tag confirmation screen



Followed by:

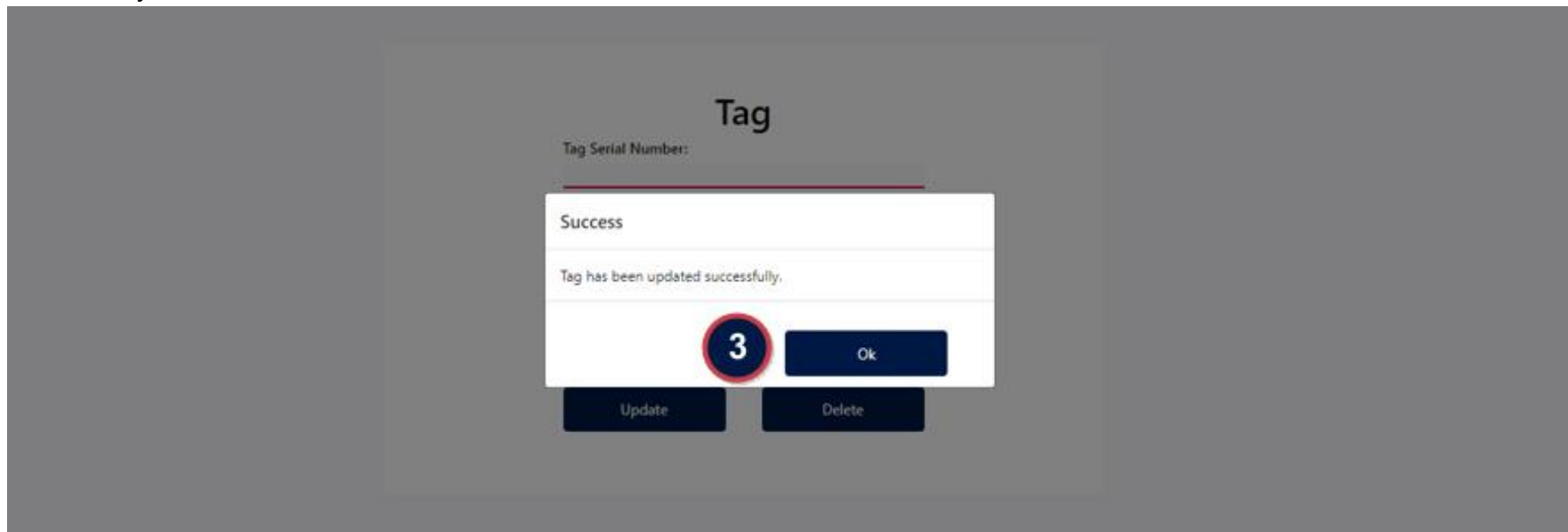


Figure 59 Update Tag successful screen

Number	Item	Description
1	Button	Updates a Tag with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Tag Screen
3	Buttons	Return the Administrator to the Tag Management screen.

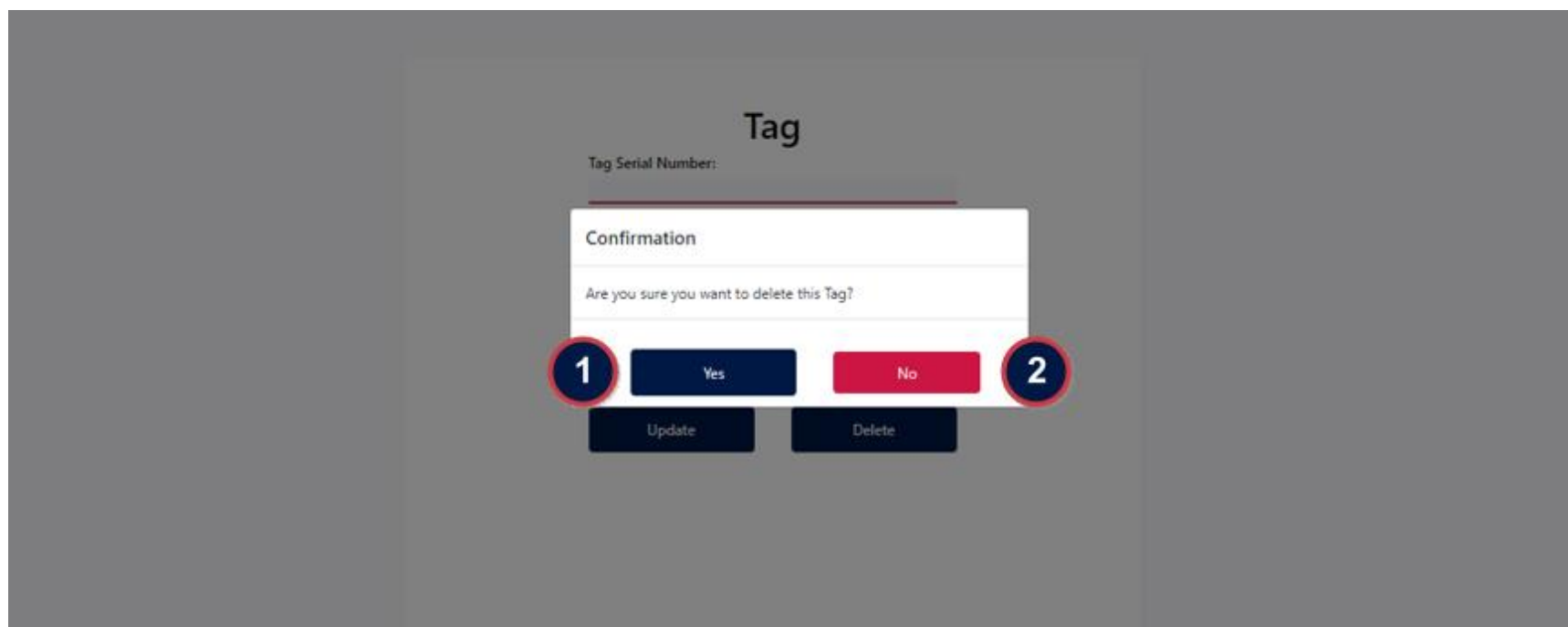


Figure 60 Delete Tag confirmation screen

Followed by:

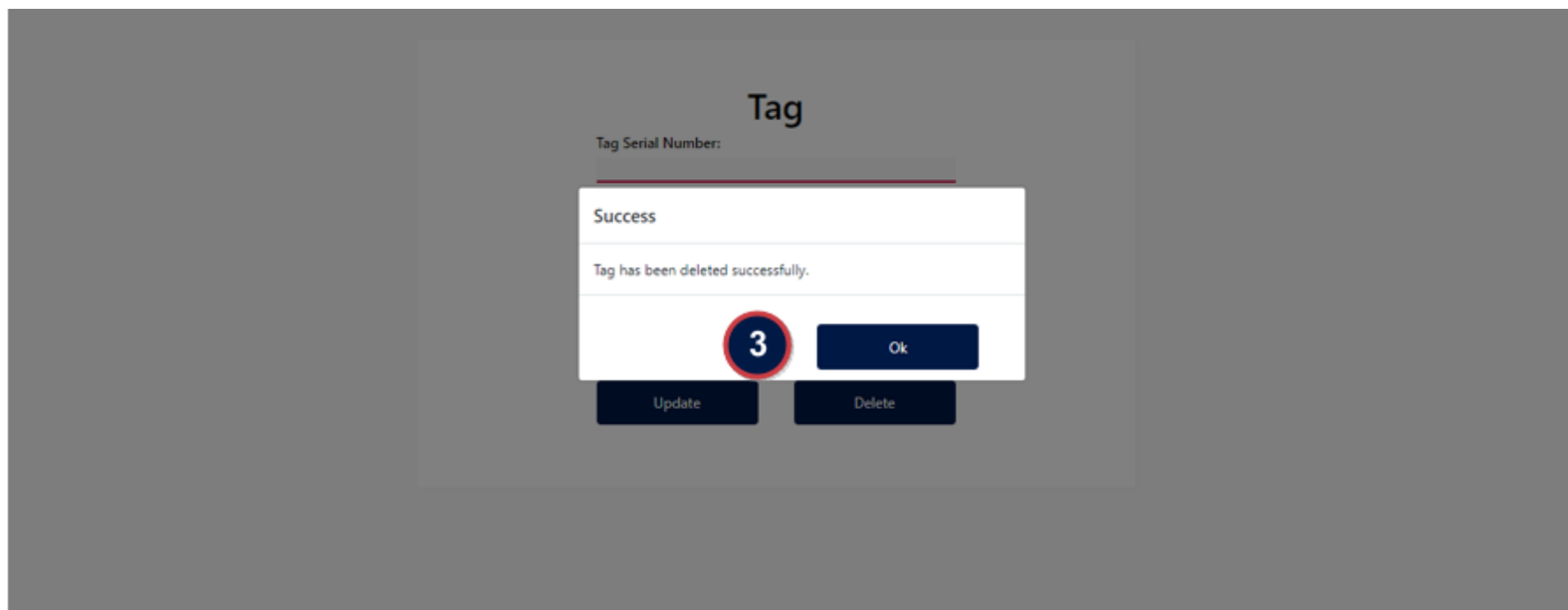


Figure 61 Delete Tag successful screen

Number	Item	Description
1	Button	Deletes a Tag with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Tag Screen
3	Buttons	Return the Administrator to the Tag Management screen.



4 Sub-System 4: Student

4.1 Student Management Screen

The screenshot shows the 'Student Management' interface. At the top left is the heading 'Student Management' (1). To its right is a button with a plus icon (2). Further right is a search input field (3) and a 'Search' button (4). Below these is a table with four columns: 'Name' (5), 'Surname' (6), 'Bicycle Code' (7), and 'Action' (8). The table contains six rows of student data.

Name	Surname	Bicycle Code	Action
Cam	King	10269	[Edit Icon]
Gareth	Philly	10587	[Edit Icon]
Rufy	Tapi	10699	[Edit Icon]
Byron	McDonald	10269	[Edit Icon]
Hanny	Lee	10285	[Edit Icon]
Shana	Code	10852	[Edit Icon]

Figure 62 Student Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the School Administrator to the Create Student screen
3	Textbox	The School Administrator can enter in the Student's name to be searched
4	Button	Finds the Student with the specified details and displays them
5	Table column	Displays all the Student names in the system
6	Table column	Displays all the Student surnames in the system
7	Table column	Displays all the Bicycle Codes corresponding with the Students in the system
8	Button	Redirects the School Administrator to the View Student screen

4.2 Create Student Screen



2020/08/01
#Bikes4ERP_VVS

1 Student

2 Name: **3**

4 Surname: **5**

6 Phone Number: **7**

8 Date of Birth: **9**

10 Village: **11**

12 School: **13**

Guardian Details 14

15 Guardian Name: **16**

17 Guardian Email: **18**

19 Guardian Phone Number: **20**

22 **21**

Figure 63 Create Student Screen

Number	Item	Description
1	Label	Displays the Screen Heading



2	Label	Displays the Name of the Student
3	Textbox	Allows the School Administrator to enter a Student Name
4	Label	Displays the Surname of the Student
5	Textbox	Allows the School Administrator to enter a Student Surname
6	Label	Displays the Phone Number of the Student
7	Textbox	Allows the School Administrator to enter a Student Phone Number
8	Label	Displays the Date of Birth of the Student
9	Date picker	Allows the School Administrator to enter a Student Date of Birth
10	Label	Displays the Village of the Student
11	Dropdown	Allows the School Administrator to select a Village
12	Label	Displays the School of the Student
13	Dropdown	Allows the School Administrator to select a School
14	Label	Displays the Sub-Section Heading
15	Label	Displays the Name of the Guardian
16	Textbox	Allows the School Administrator to enter a Guardian Name
17	Label	Displays the Email Address of the Guardian
18	Textbox	Allows the School Administrator to enter a Guardian Email Address
19	Label	Displays the Phone Number of the Guardian
20	Textbox	Allows the School Administrator to enter a Guardian Phone Number
21	Button	Redirects the School Administrator to the Student Management screen



22	Button	Displays the Confirmation dialog
----	--------	----------------------------------

Student

Name: Cameron

Surname: King

Phone Number: 0836495003

Date of Birth: 2020/07/11

Village: Mafikeng

School: Select

Please select a School.

Guardian Details

Guardian Name: Lisa Huet

Guardian Email: lisa@gamil.com

Guardian Phone Number: 0836495003

Error! There was an issue creating the Student.
Please try again.

Create Cancel

Figure 64 Create Student Error Screen



Number	Item	Description
1	Dropdown	This Dropdown has been left empty on purpose
2	Label	Each entry has a Label that will tell the School Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen



Student

Name: Cameron

Surname: King

Phone Number: 0706495003

Date of Birth: 2001

Villa: Villa

Mat: Mat

Sche: Sche

Sec: Sec

Guardian Details

Guardian Name: Lisa Huet

Guardian Email: lisa@gmail.com

Guardian Phone Number: 0833250479

Confirmation

Are you sure you want to add this Student?

Yes No

Create Cancel

Figure 65 Create Student Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the School Administrator
3	Button	Yes button Creates a new Student with the details from the Student screen and saves the details to the database
4	Button	No button Redirects the School Administrator to the previous Student screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Student Management screen



4.3 View Student Screen

The screenshot displays the 'View Student' interface. At the top, the title 'Student' is followed by a red circle containing the number 1. Below this, the form is divided into two main sections: 'Student' and 'Guardian Details'. The 'Student' section contains fields for Name (Cameron), Surname (King), Bicycle Code (02059), Phone Number (0833250419), Date of Birth (1998/04/25), Village (Mahikeng), and School (Mahikeng Secondary School). The 'Guardian Details' section contains fields for Guardian Name (Lisa), Guardian Email (lisa@gmail.com), and Guardian Phone Number (0896452009). At the bottom, there are 'Update' and 'Delete' buttons. Red circles with numbers 2 through 24 are overlaid on the form to indicate specific points of interest.

Field	Value
Name	Cameron
Surname	King
Bicycle Code	02059
Phone Number	0833250419
Date of Birth	1998/04/25
Village	Mahikeng
School	Mahikeng Secondary School
Guardian Name	Lisa
Guardian Email	lisa@gmail.com
Guardian Phone Number	0896452009

Figure 66 View Student Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the Student
3	Textbox	Allows the School Administrator to enter a Student Name
4	Label	Displays the Surname of the Student
5	Textbox	Allows the School Administrator to enter a Student Surname
6	Label	Displays the Bicycle Code of the Student
7	Textbox	Allows the School Administrator to enter a Student Bicycle Code
8	Label	Displays the Phone Number of the Student
9	Textbox	Allows the School Administrator to enter a Student Phone Number
10	Label	Displays the Date of Birth of the Student
11	Date picker	Allows the School Administrator to enter a Student D Number
12	Label	Displays the Village of the Student
13	Dropdown	Allows the School Administrator to select a Village
14	Label	Displays the School of the Student
15	Dropdown	Allows the School Administrator to select a School
16	Label	Displays the Sub-Section Heading
17	Label	Displays the Name of the Guardian
18	Textbox	Allows the School Administrator to enter a Guardian Name
19	Label	Displays the Email Address of the Guardian



20	Textbox	Allows the School Administrator to enter a Guardian Email Address
21	Label	Displays the Phone Number of the Guardian
22	Textbox	Allows the School Administrator to enter a Guardian Phone Number
23	Button	Displays the Confirmation dialog
24	Button	Redirects the School Administrator to the Student Management screen



The screenshot shows a web application interface for updating student information. The main heading is "Student". Below it are input fields for Name, Surname, Bicycle Code, Phone Number, and Date of Birth. A confirmation modal is open, titled "Confirmation", with the text "Are you sure you want to update this Student?". The modal has two buttons: "Yes" (dark blue) and "No" (red). Below the modal is the "Guardian Details" section with input fields for Guardian Name, Guardian Email, and Guardian Phone Number. At the bottom are "Update" and "Delete" buttons. Numbered callouts are present: 1 points to the Confirmation title, 2 points to the confirmation text, 3 points to the Yes button, and 4 points to the No button.

Student

Name: _____

Surname: _____

Bicycle Code: _____

Phone Number: _____

Date of Birth: _____

Confirmation 1

Are you sure you want to update this Student? 2

3 Yes 4 No

Guardian Details

Guardian Name: _____

Guardian Email: _____

Guardian Phone Number: _____

Update Delete

Figure 67 Update Student Confirmation Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Updates the Student with the details from the Student screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous Student screen



The screenshot displays a web application interface for student management. A modal window is open, showing a success message. The modal has a title 'Success' (1), a message 'The Student has been updated successfully.' (2), and an 'Ok' button (3). The background shows the 'Student' form with fields for Name, Surname, Bicycle Code, Phone Number, and Date of Birth. Below the modal is the 'Guardian Details' section with fields for Guardian Name, Guardian Email, and Guardian Phone Number, and 'Update' and 'Delete' buttons.

Figure 68 Updated Student Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Student Management screen



Student

Name: _____

Surname: _____

Bicycle Code: _____

Phone Number: _____

Date of Birth: _____

Confirmation

Are you sure you want to delete this Student?

Yes **No**

Guardian Details

Guardian Name: _____

Guardian Email: _____

Guardian Phone Number: _____

Update **Delete**

Figure 69Delete Student Confirmation Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Removes the Student and its details from the database
4	Button	No button Redirects the School Administrator to the previous Student screen

Student

Name: _____

Surname: _____

Bicycle Code: _____

Phone Number: _____

Date of Birth: _____

Success 1

The Student has been deleted successfully. 2

Ok 3

Guardian Details

Guardian Name: _____

Guardian Email: _____

Guardian Phone Number: _____

Update Delete

Figure 70 Delete Student Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the School Administrator back to the Student Management screen



4.4 Student Mark Management Screen

Student Mark Management 1				Search 2	Search 3
Name 4	Surname 5	Current Mark 6	Action		
Cam	King	50%	Capture Mark 7		
Gareth	Philly	60%	Capture Mark		
Rufy	Tapi	59%	Capture Mark		
Byron	McDonald	89%	Capture Mark		
Hanny	Lee	69%	Capture Mark		
Shana	Code	49%	Capture Mark		

Figure 71 Student Mark Management Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The School Administrator can enter in the Student's name to be searched
3	Button	Finds the Student Mark with the specified details and displays them
4	Table column	Displays all the Student names in the system
5	Table column	Displays all the Student surnames in the system
6	Table column	Displays all the Current Mark corresponding with the Students in the system
7	Button	Redirects the School Administrator to the Capture Student Mark screen



4.5 Capture Student Mark Screen

The screenshot displays a 'Student Mark' capture form. At the top, the title 'Student Mark' is followed by a red circle containing the number 1. Below this, there are three input fields: 'Mark:' with the value '56' (callout 2), 'Mark Type:' with the value 'Half Year' (callout 4), and 'Date:' with the value '2020/07/06' (callout 6). Each input field has a red underline and a red circle with a number at its right end: 3 for 'Mark:', 5 for 'Mark Type:', and 7 for 'Date:'. At the bottom, there are two dark blue buttons: 'Capture' (callout 8) and 'Cancel' (callout 9).

Figure 72 Capture Student Mark Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Mark of the Student
3	Textbox	Allows the School Administrator to enter a Mark
4	Label	Displays the Mark Type of the Mark
5	Textbox	Allows the School Administrator to enter a Mark Type
6	Label	Displays the Date of the Student Mark
7	Date picker	Allows the School Administrator to enter a Date of Student Mark
8	Button	Displays the Confirmation dialog
9	Button	Redirects the Super Administrator to the Student Mark Management screen

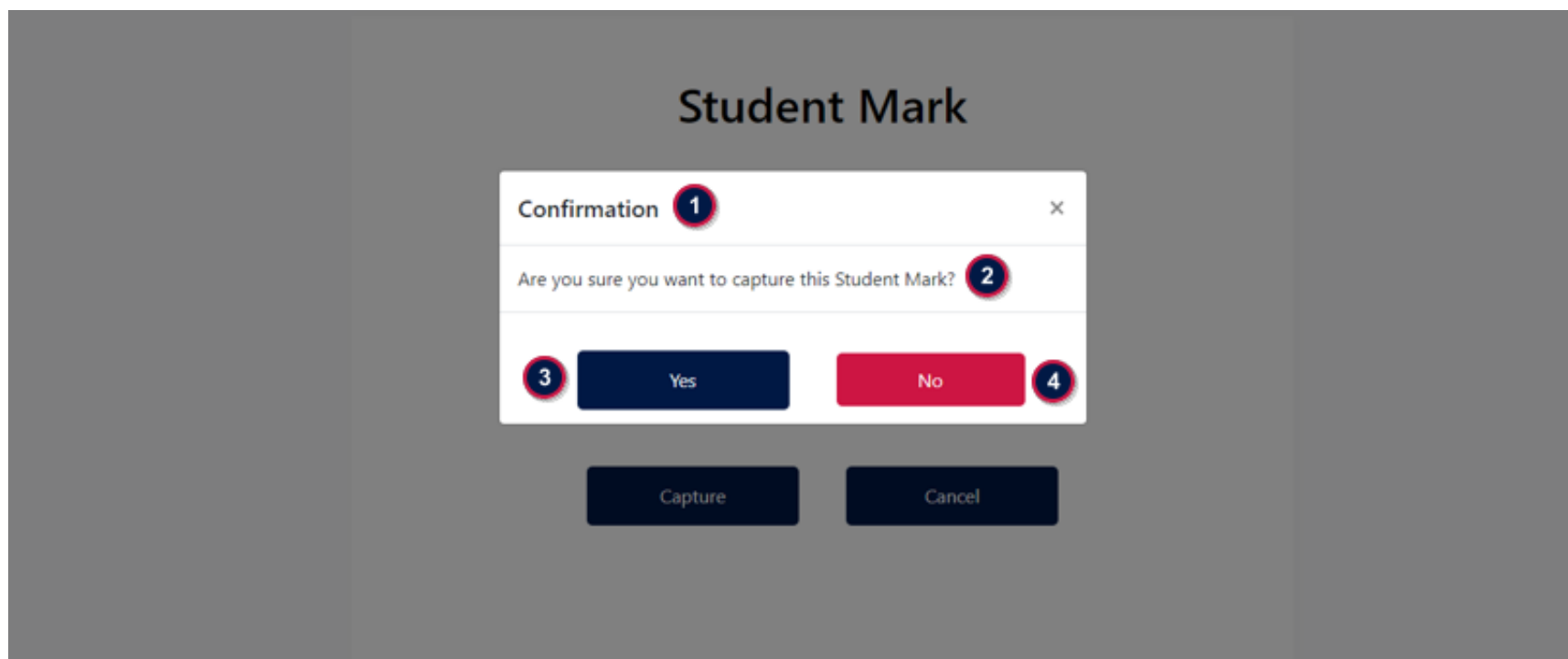


Figure 73 Capture Student Mark Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the School Administrator
3	Button	Yes button Captures a Student Mark with the details from the Student Mark screen and saves the details to the database
4	Button	No button Redirects the School Administrator to the previous Student Mark screen

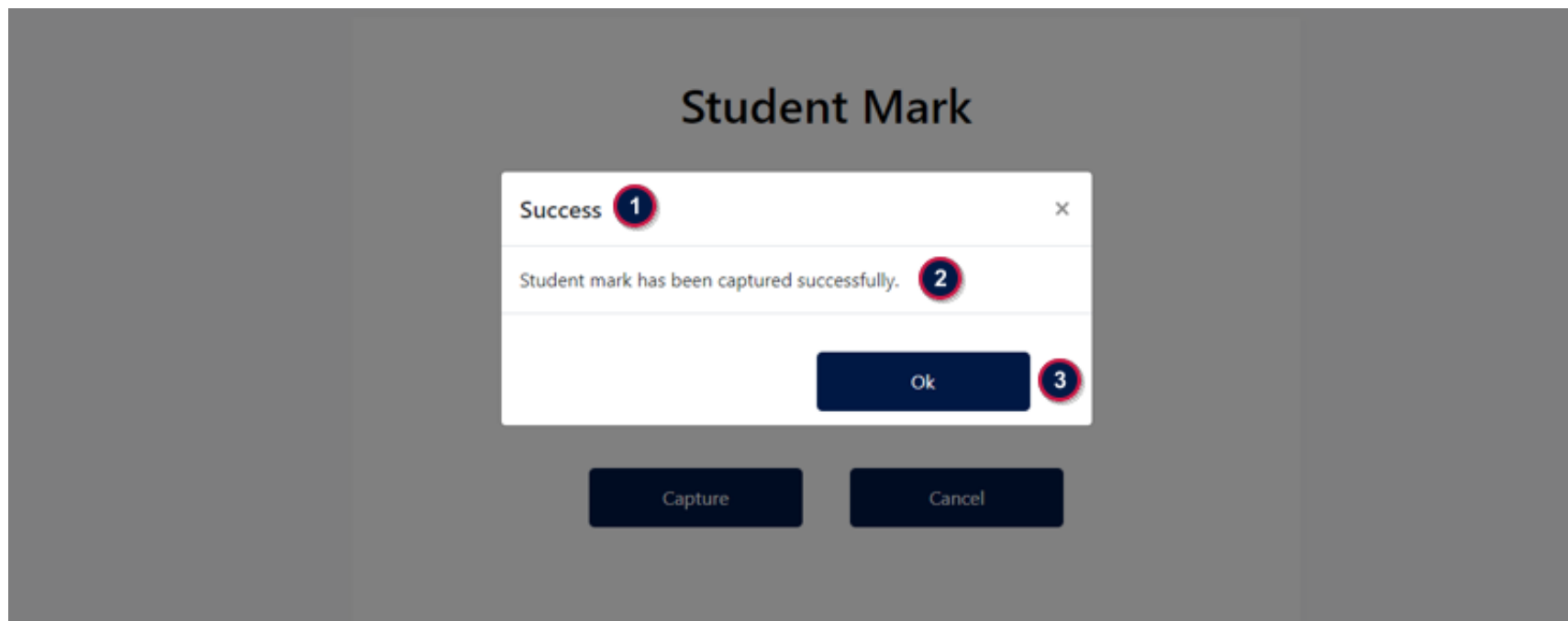


Figure 74 Capture Student Mark Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Student Mark Management screen



4.6 Mark Type Management Screen

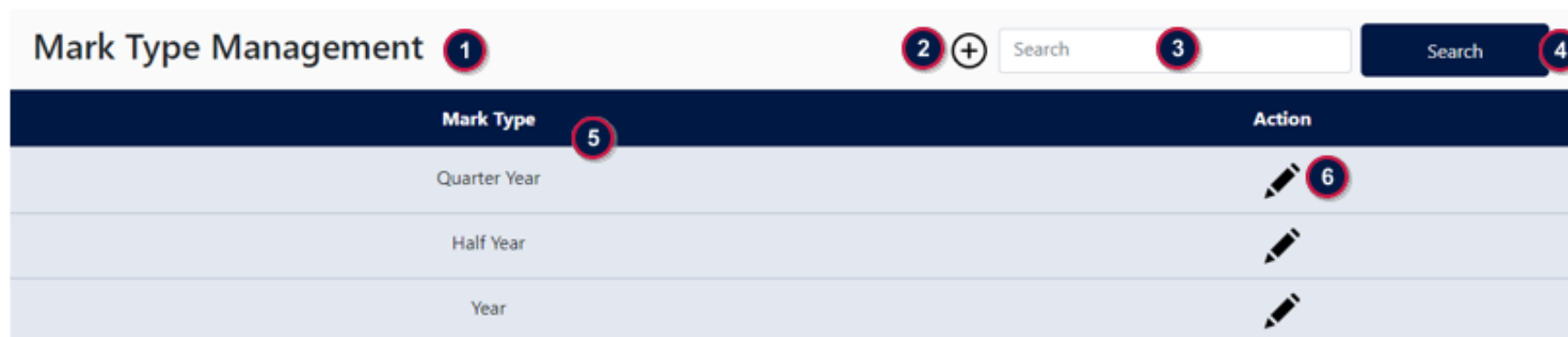


Figure 75 Mark Type Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Bicycle Section screen
3	Textbox	The Super Administrator can enter in the Section's name to be searched
4	Button	Finds the Mark Type with the specified details and displays them
5	Table column	Displays all the Mark Type names in the system
6	Button	Redirects the School Administrator to the View Mark Type screen

4.7 Create Mark Type Screen

Figure 76 Create Mark Type Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Mark Type
3	Textbox	Allows the School Administrator to enter a Mark Type
4	Button	Displays the Confirmation dialog
5	Button	Redirects the Super Administrator to the Bicycle Section Management screen



Mark Type

Mark Type:

Please enter the Mark Type

Error! There was an issue creating a new Mark Type. Please try again.

Create Cancel

Figure 77 Create Mark Type Error Screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the School Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen

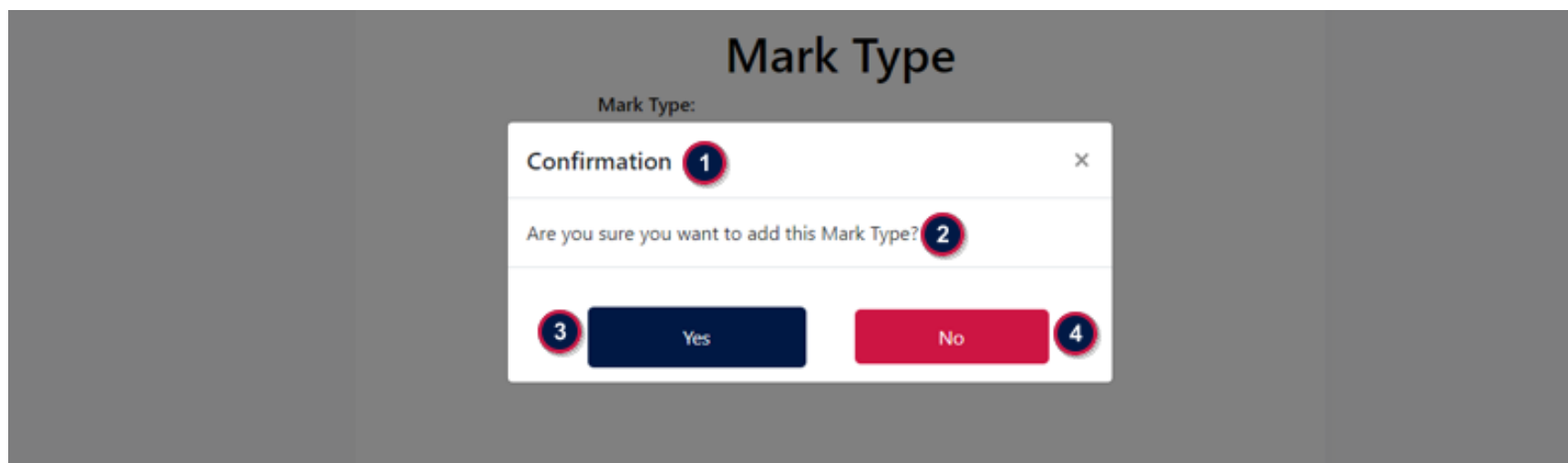


Figure 78 Create Mark Type Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Creates a new Mark Type with the details from the Mark Type screen and saves the details to the database
4	Button	No button Redirects the School Administrator to the previous Mark Type screen

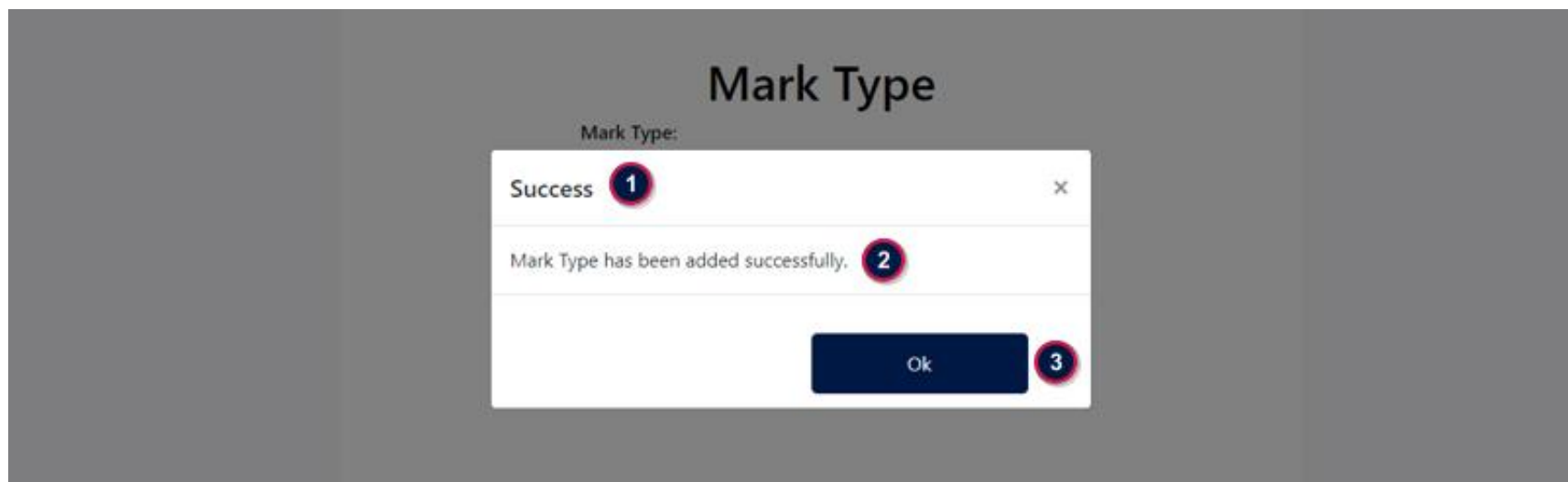


Figure 79 Create Mark Type Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Section Management screen

4.8 View Mark Type Screen

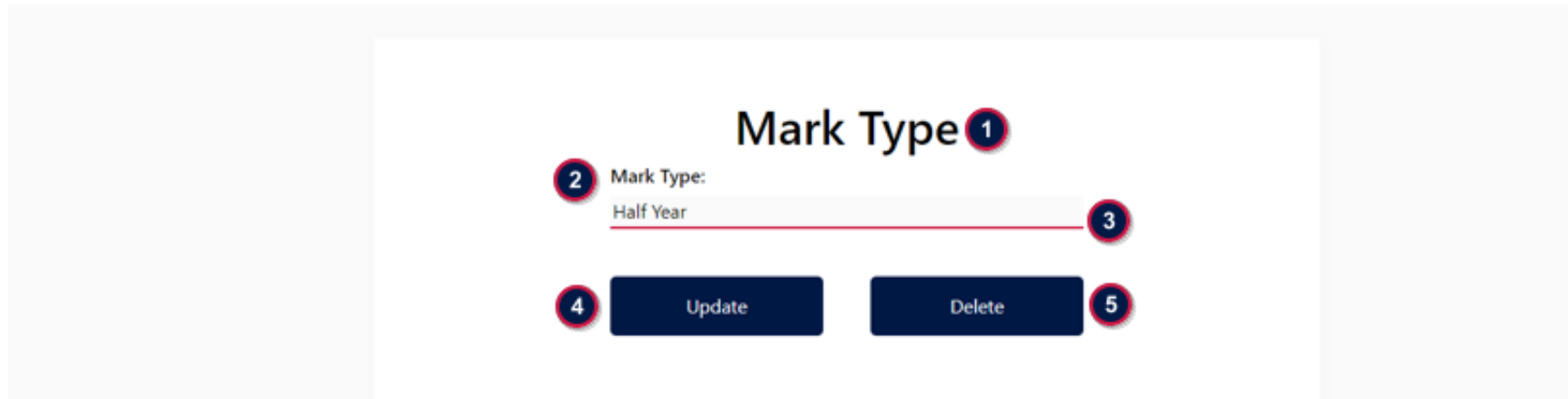


Figure 80 View Mark Type Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Mark Type
3	Textbox	Allows the School Administrator to edit the Mark Type
4	Button	Displays the Update Confirmation dialog
5	Button	Displays the Delete Confirmation dialog



Figure 81 Update Mark Type Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Updates the Mark Type with the details from the Mark Type screen and saves the details to the database
4	Button	No button Redirects the School Administrator to the previous Mark Type screen

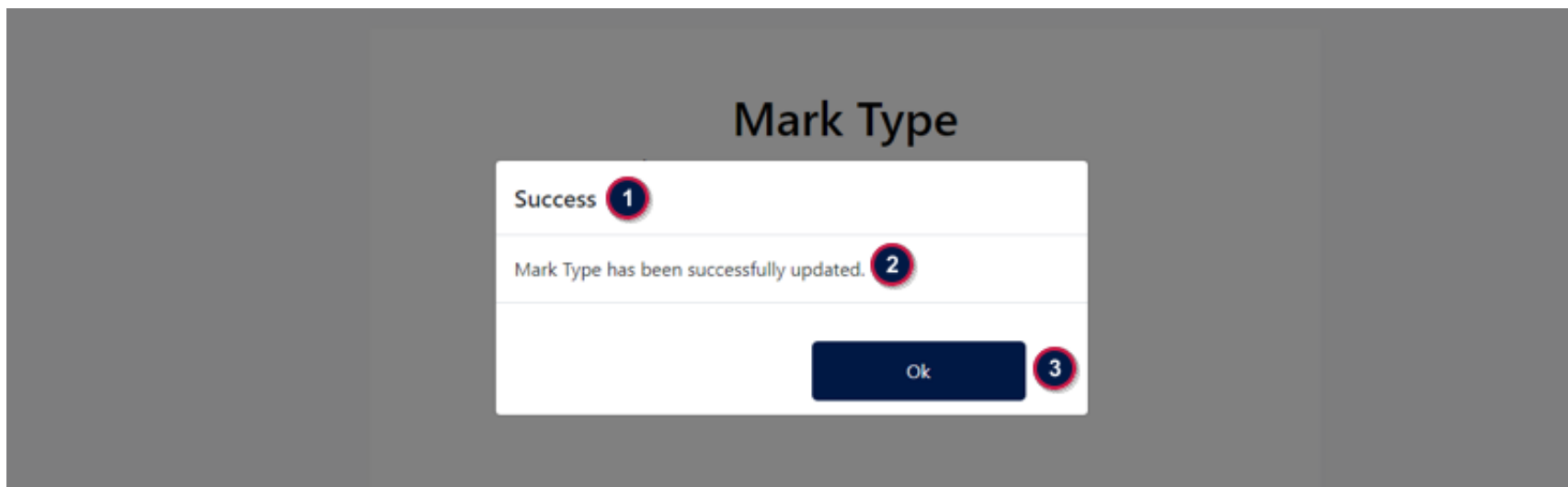


Figure 82 Update Mark Type Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the School Administrator back to the Mark Type Management screen

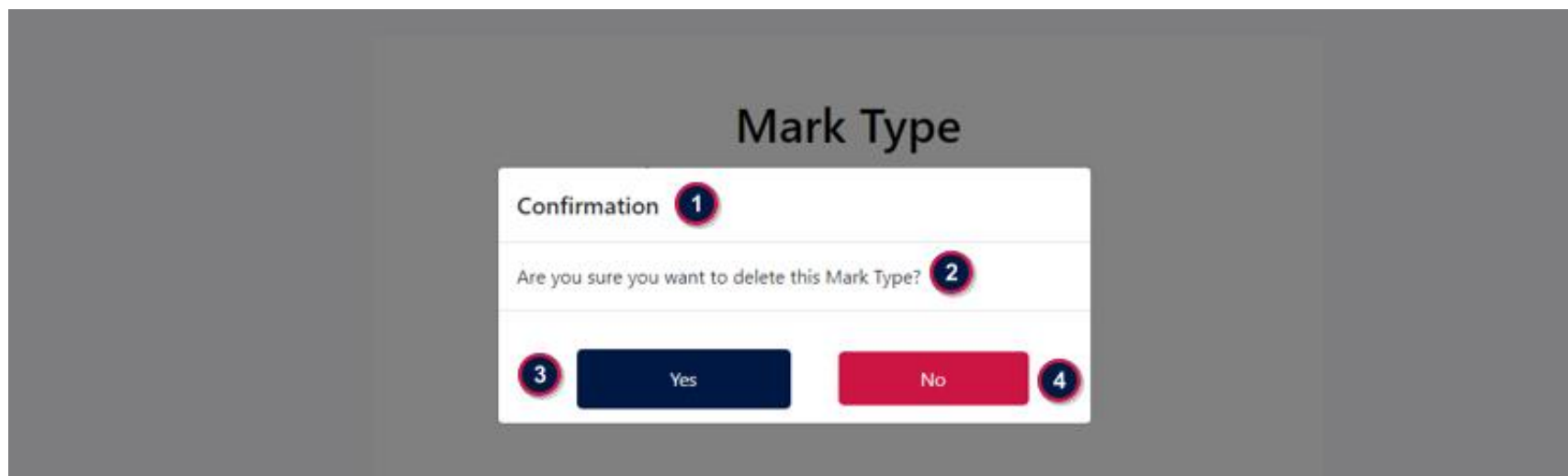


Figure 83 Delete Mark Type Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Removes the Mark Type and its details from the database
4	Button	No button Redirects the School Administrator to the previous Mark Type screen



Figure 84 Delete Mark Type Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the School Administrator back to the Mark Type Management screen



5 Sub-System 5: Bicycle

5.1 Bicycle Management Screen

The screenshot shows the 'Bicycle Management' screen. At the top, there is a navigation bar with 'Home' and 'School Administrator' links. The main header 'Bicycle Management' is circled with a red circle and labeled '1'. To the right of the header, there is a search bar with a '+' icon, circled with a red circle and labeled '2'. The search bar is labeled 'Search' and is circled with a red circle and labeled '3'. To the right of the search bar is a 'Search' button, circled with a red circle and labeled '4'. Below the header is a table with four columns: 'Bicycle Code' (circled with a red circle and labeled '5'), 'Bicycle Make', 'Bicycle Status', and 'Action'. The table contains six rows of data. The 'Action' column contains edit icons (pencil icons). The second row of the table is circled with a red circle and labeled '6'.

Bicycle Code	Bicycle Make	Bicycle Status	Action
10111	Qhubeka	Assigned	
10123	Raleigh	Assigned	
10236	Totem	Assigned	
10238	Qhubeka	Available	
10256	Raleigh	Assigned	
10896	Raleigh	Available	

Figure 85 Bicycle Management screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Bicycle page
3	Textbox	The Super Administrator can enter in the Bicycles code
4	Button	Finds the Bicycle with the specified details and displays them
5	Table	Table to show all the Bicycles in the system and their description's
6	Button	Redirects the Super Administrator to the View Bicycle screen



5.2 Create Bicycle Screen

Figure 86 Create Bicycle screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Bicycle Code of the Bicycle
3	Textbox	Allows the Administrator to enter a Bicycle Code
4	Label	Displays the Make of the Bicycle
5	Textbox	Allows the Administrator to enter the Bicycle Make
6	Button	Redirects to the create confirmation dialog.
7	Button	Redirects the Administrator to the Bicycle Management screen



Bicycle

Bicycle Code:
102659

Bicycle Make:

Please enter a Bicycle Make ×

Error! There was an issue creating the Bicycle.
Please try again.

Create Cancel

Figure 87 Create Bicycle Error screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a Bicycle

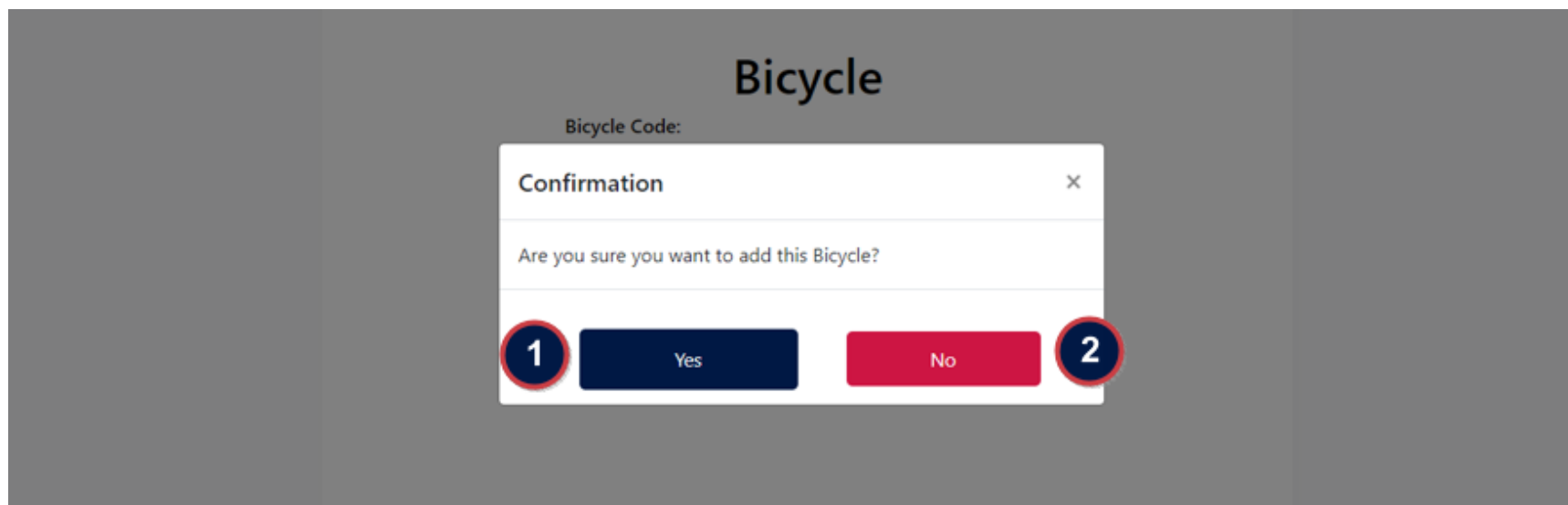


Figure 88 Create Bicycle confirmation screen

Followed by:

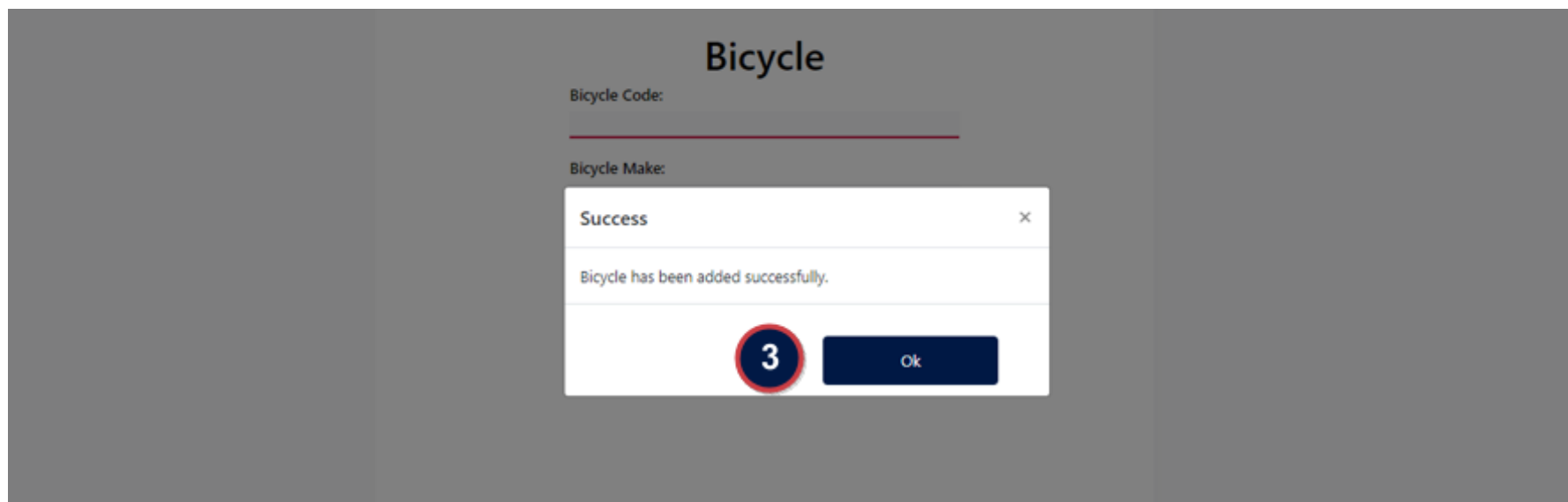


Figure 89 Create Bicycle successful screen

Number	Item	Description
1	Button	Creates a new Antenna with the details and saves the details to the database
2	Button	Returns the Super Administrator to the Antenna Screen
3	Buttons	Return the Administrator to the Antenna Management screen.



5.3 View Bicycle Screen

The screenshot shows the 'View Bicycle' screen with the following elements:

- 1** Bicycle (Title)
- 2** Bicycle Code: 101635
- 3** (Empty space)
- 4** Bicycle Make: Totem
- 5** (Empty space)
- 6** Bicycle Status: Available
- 7** (Empty space)
- 8** Date Added: 2020/07/14
- 9** (Empty space)
- 10** Update button
- 11** Delete button

Figure 90 View Bicycle screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Bicycle Code of the Bicycle
3	Textbox	Allows the Administrator to enter a Bicycle Code
4	Label	Displays the Bicycle Make of the Bicycle
5	Textbox	Allows the Administrator to enter a Bicycle Make
6	Label	Displays the Status of the Bicycle
7	Dropdown	Allows the Super Administrator to select a Status
8	Label	Displays the Date Added of the bicycle
9	Date Picker	Allows the Administrator to input the Data Added
10	Button	Displays the Update Confirmation dialog
11	Button	Displays the Delete Confirmation dialog



Bicycle

Confirmation

Are you sure you want to delete this Bicycle?

1

Yes

No

2

Date Added:
yyyy/mm/dd

Update

Delete

Figure 91 Create Bicycle confirmation screen



Followed by:

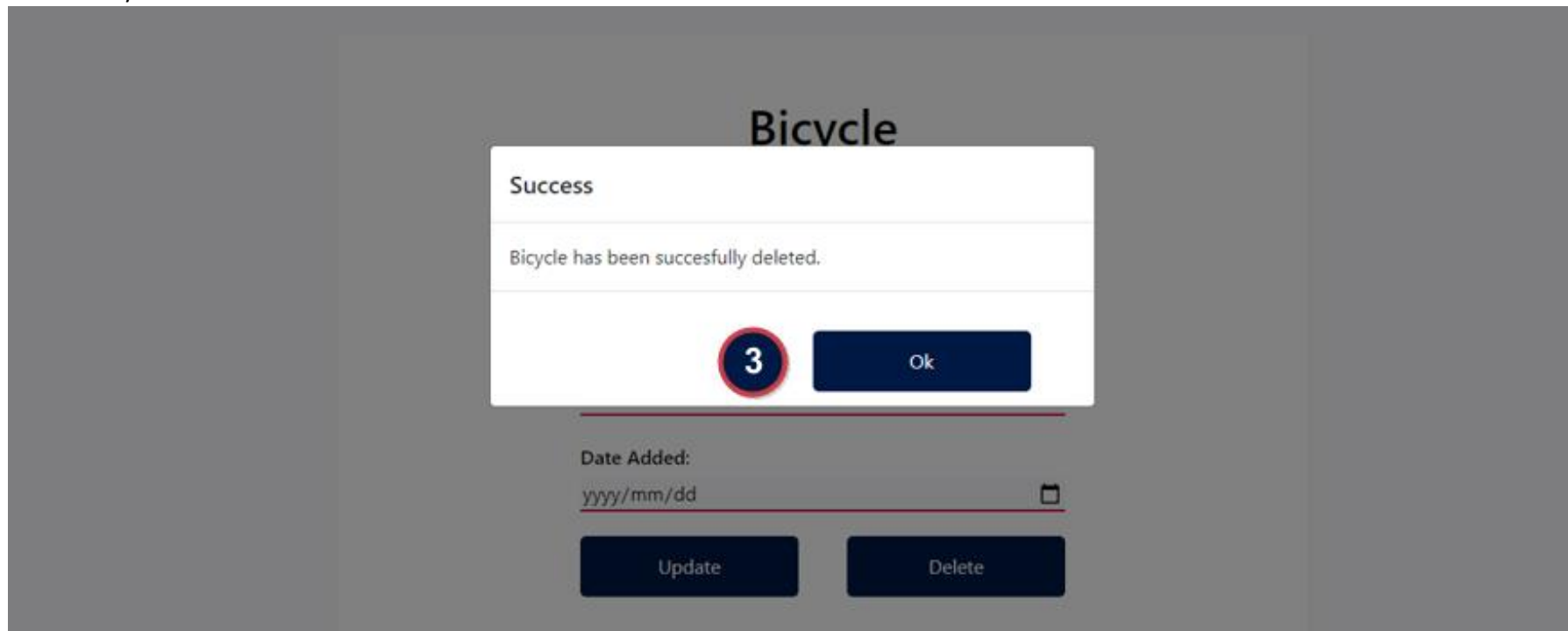


Figure 92 Create Bicycle successful screen

Number	Item	Description
1	Button	Deletes a Bicycle with the details and removes the details from the database
2	Button	Returns the Administrator to the Bicycle Screen
3	Buttons	Return the Administrator to the Bicycle Management screen.



Figure 93 Update Bicycle confirmation screen

Followed by:

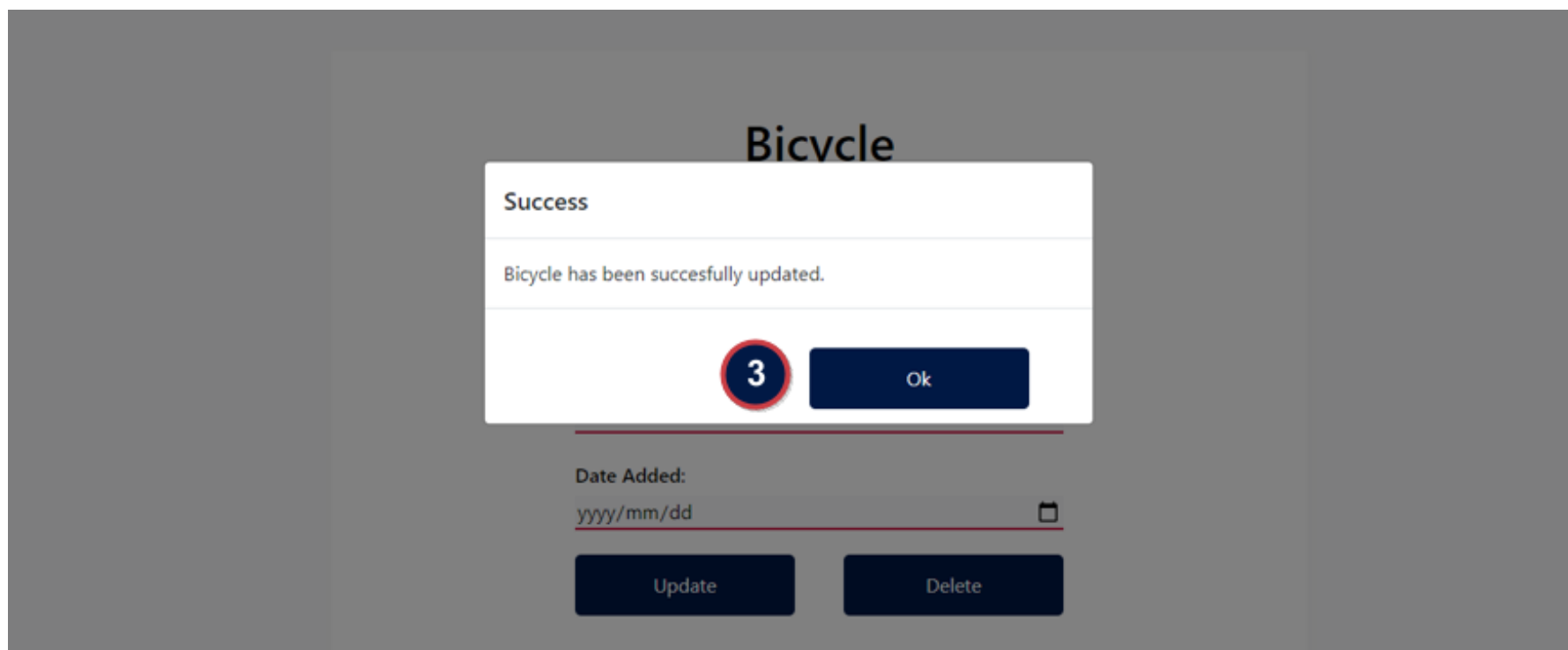


Figure 94 Update Bicycle successful screen

Number	Item	Description
1	Button	Updates a Bicycle with the details and saves the details to the database
2	Button	Returns the Administrator to the Bicycle Screen
3	Buttons	Return the Administrator to the Bicycle Management screen.



5.4 Bicycle Assignment Screen

The screenshot shows the 'Bicycle Assignment' screen. At the top, there is a navigation bar with 'Home' and 'School Administrator' links. A search bar is located on the right side of the page. The main content area is a table with columns: 'Bicycle Code', 'Student Name', 'Student Surname', 'Bicycle Status', and 'Action'. The table lists several bicycles with their respective codes, student names, surnames, and statuses. The 'Action' column contains buttons for 'Unassign' and 'Assign'. Numbered callouts (1-6) highlight specific elements: 1 points to the 'Bicycle Assignment' heading, 2 points to the search bar, 3 points to the search button, 4 points to the 'Unassign' button, 5 points to the 'Assign' button, and 6 points to the table header.

1	2	3	4	5	6
Bicycle Assignment	Search	Search	Unassign	Assign	Bicycle Code
			Unassign		Student Name
			Unassign		Student Surname
			Unassign		Bicycle Status
			Unassign	Assign	Action
			Unassign		10236
			Unassign		Cam
			Unassign		King
			Unassign		Assigned
			Unassign		10369
			Unassign		Gareth
			Unassign		Philly
			Unassign		Assigned
			Unassign		10569
			Unassign		Byron
			Unassign		McDonald
			Unassign		Assigned
			Unassign		10254
			Unassign		Available
			Unassign		10786
			Unassign		Rufy
			Unassign		Tapi
			Unassign		Assigned
			Unassign		10258
			Unassign		Available
			Unassign		Assign

Figure 95 Bicycle Assignment screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The Super Administrator can enter in the Bicycles code
3	Button	Finds the Bicycle with the specified details and displays them
4	Button	Displays the Unassign confirmation dialog.
5	Button	Redirects to the Assign Bicycle to Student screen.
6	Table	Table to show all the Bicycles in the system and their description's



5.5 Assign Bicycle to Student Screen

Figure 96 Assign Bicycle to Student screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Bicycle Code of the Bicycle
3	Textbox	Will display the bicycle code of the selected bicycle. Read-only.
4	Label	Displays the Name and Surname of students.
5	Combo box	Allows the Administrator to select a student to assign.
4	Button	Redirects to the confirmation dialog.
5	Button	Redirects the Super Administrator to the Assignment Management screen

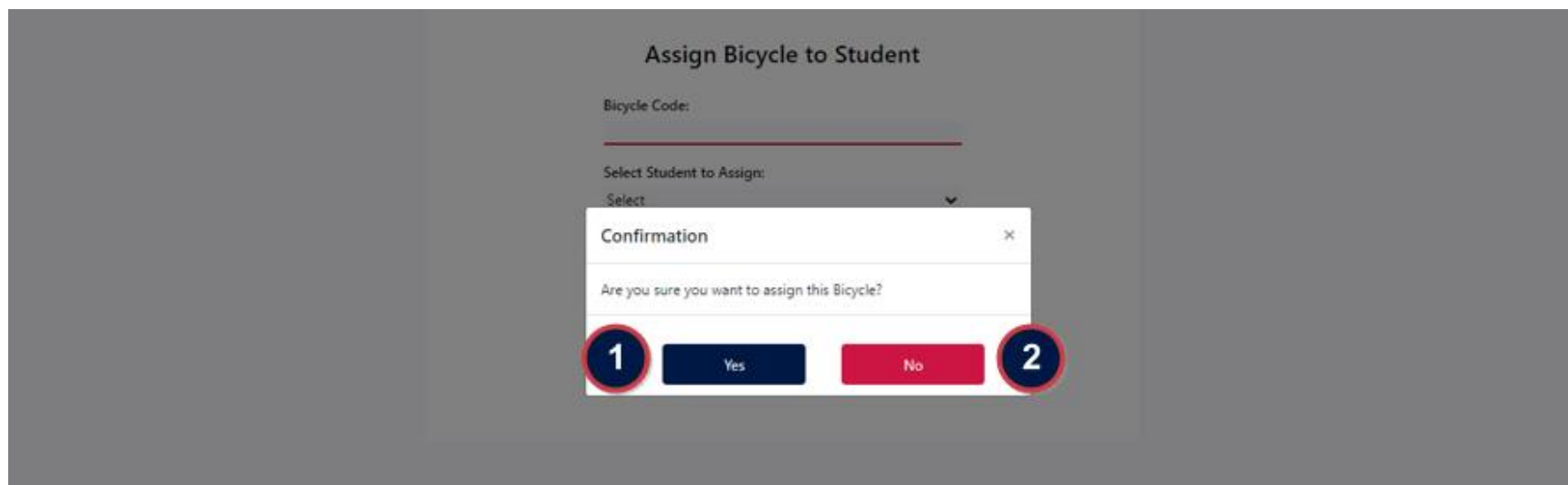


Figure 97 Assign Bicycle confirmation screen

Followed by:

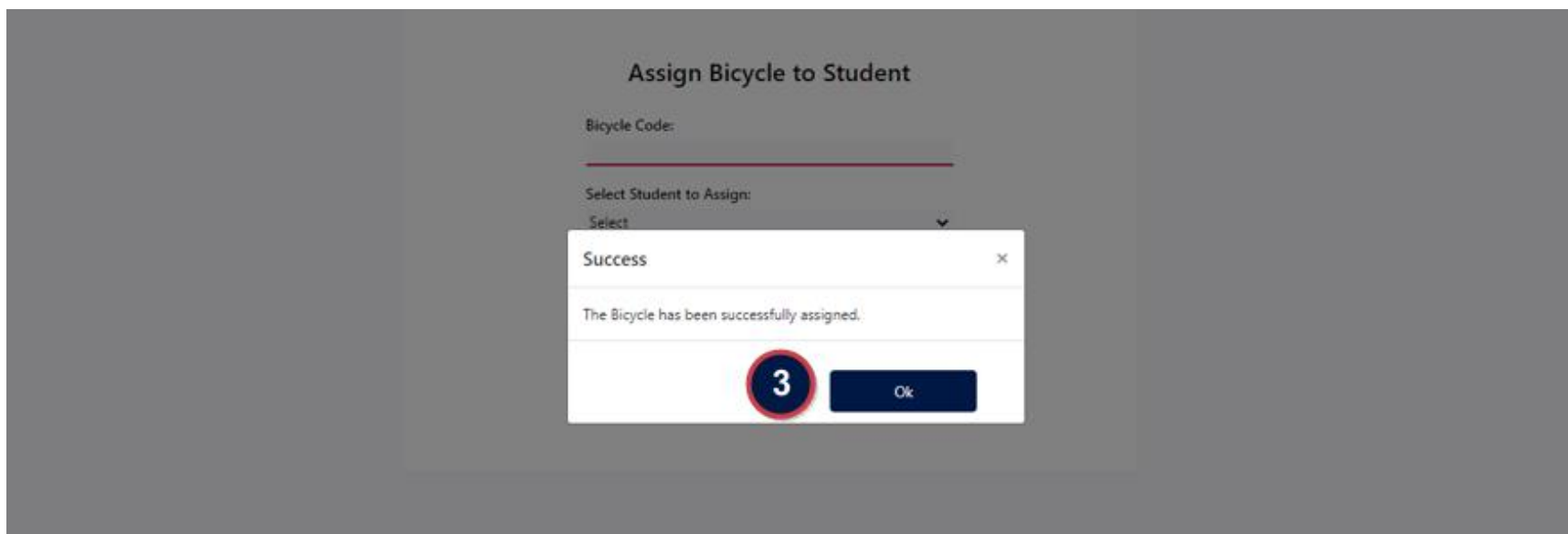


Figure 98 Assign Bicycle successful screen

Number	Item	Description
1	Button	Assigns a Bicycle with the details and saves the details to the database
2	Button	Returns the Administrator to the Assignment Screen
3	Buttons	Return the Administrator to the Assignment Management screen.



5.6 Unassign Bicycle from Student Screen

The screenshot shows the 'Bicycle Assignment' screen with a table of bicycle assignments. A confirmation dialog is displayed over the table, asking 'Are you sure you want to unassign this Bicycle?'. The dialog has two buttons: 'Yes' (labeled 1) and 'No' (labeled 2).

Bicycle Code	Student Name	Student Surname	Bicycle Status	Action
10236	Cam	King	Assigned	Unassign
10369	Gareth	Philly	Assigned	Unassign
10569	Byron	McDonald	Assigned	Unassign
10254			Available	Assign
10786	Rufy		Assigned	Unassign
10258			Available	Assign

Figure 99 Unassign Bicycle confirmation screen

Followed by:

The screenshot shows the 'Bicycle Assignment' screen with a table of bicycle assignments. A success dialog is displayed over the table, stating 'The Bicycle has been successfully unassigned.' The dialog has one button: 'Ok' (labeled 3).

Bicycle Code	Student Name	Student Surname	Bicycle Status	Action
10236	Cam	King	Assigned	Unassign
10369	Gareth	Philly	Assigned	Unassign
10569	Byron	McDonald	Assigned	Unassign
10254			Available	Assign
10786	Rufy		Assigned	Unassign
10258			Available	Assign

Figure 100 Unassign Bicycle successful screen



Number	Item	Description
1	Button	Unassigns a Bicycle with the details and saves the details to the database
2	Button	Returns the Administrator to the Assignment Screen
3	Buttons	Return the Administrator to the Assignment Management screen.



5.7 Tag Assignment Screen

The screenshot shows the 'Tag Assignment' screen. It features a header with the title 'Tag Assignment' (1), a search input field (2), and a search button (3). Below the header is a table with columns: Tag Serial Number (4), Bicycle Code, Tag Status, and Action. The table contains six rows of data. The 'Action' column contains 'Unassign' buttons (5) for assigned tags and 'Assign' buttons (6) for available tags.

Tag Serial Number	Bicycle Code	Tag Status	Action
5656598-E58	10236	Assigned	Unassign
8623598-E60	10369	Assigned	Unassign
5656598-E56		Available	Assign
5566598-E89	10569	Assigned	Unassign
5656598-E89		Available	Assign
5656598-E85		Available	Assign

Figure 101 Tag Assignment Management screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The Super Administrator can enter in the Tags Serial Number
3	Button	Finds the Tag with the specified details and displays them
4	Table	Table to show all the Tag in the system and their description's
5	Button	Displays the Unassign confirmation dialog.
6	Button	Redirects to the Assign Tag to Bicycle screen.

5.8 Assign Tag to Bicycle Screen

The screenshot shows a web application interface for assigning a tag to a bicycle. The interface includes a title 'Assign Tag to Bicycle' (1), a label 'Tag Serial Number:' (2) with a text input field containing '56369' (3), a label 'Select Bicycle to Assign:' (4) with a dropdown menu showing '103697' (5), and two buttons: 'Assign' (6) and 'Cancel' (7).

Figure 102 Assign Tag to Bicycle screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Tag Serial Number of the Tag
3	Textbox	Will display the Tag Serial Number of the selected Tag. Read-only.
4	Label	Displays the Bicycle Code of available bicycles.
5	Combo box	Allows the Administrator to select a Bicycle to assign.
4	Button	Redirects to the confirmation dialog.
5	Button	Redirects the Administrator to the Assignment Management screen

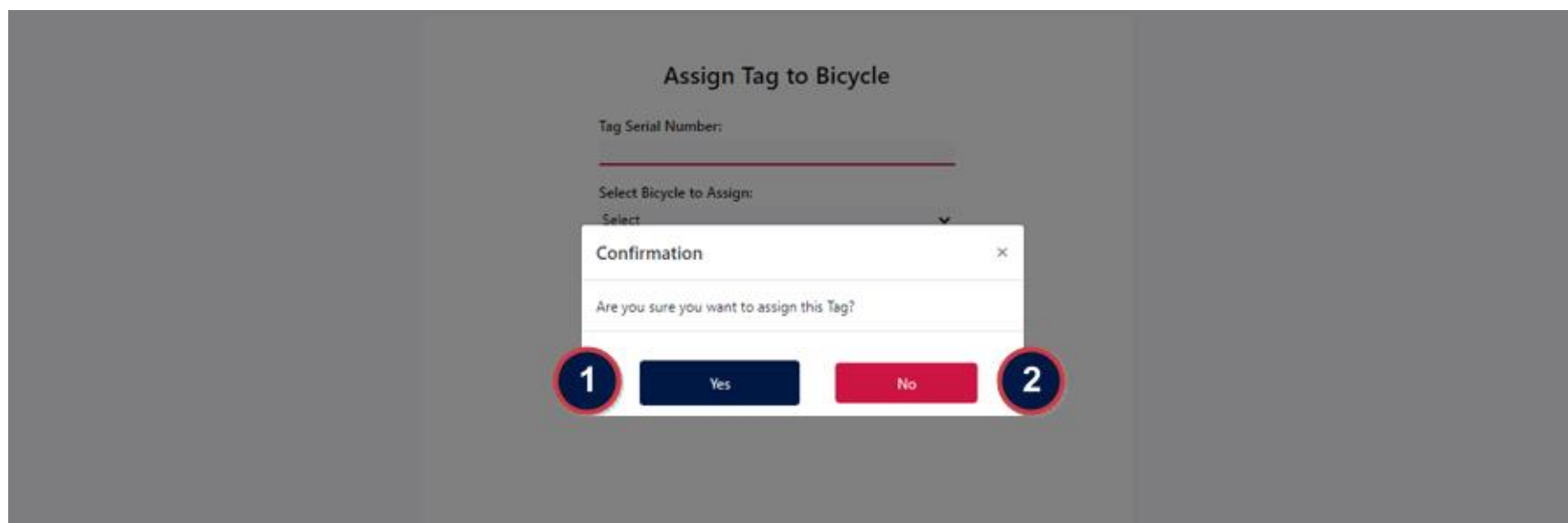


Figure 103 Assign Tag confirmation screen

Followed by:

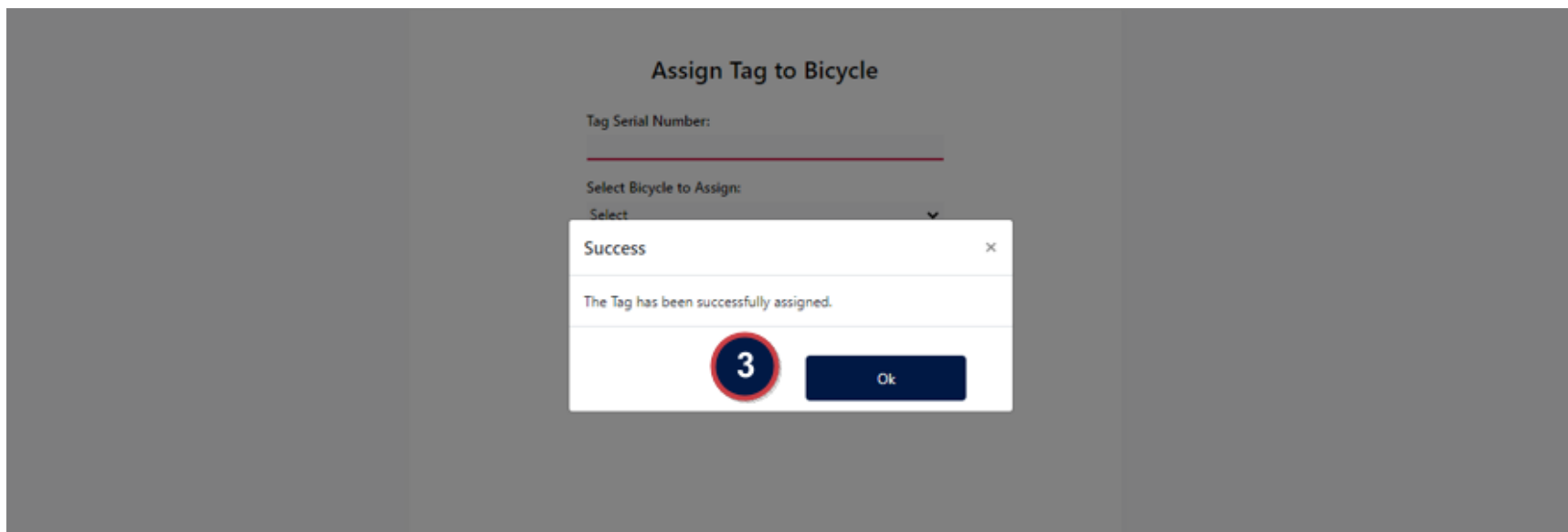
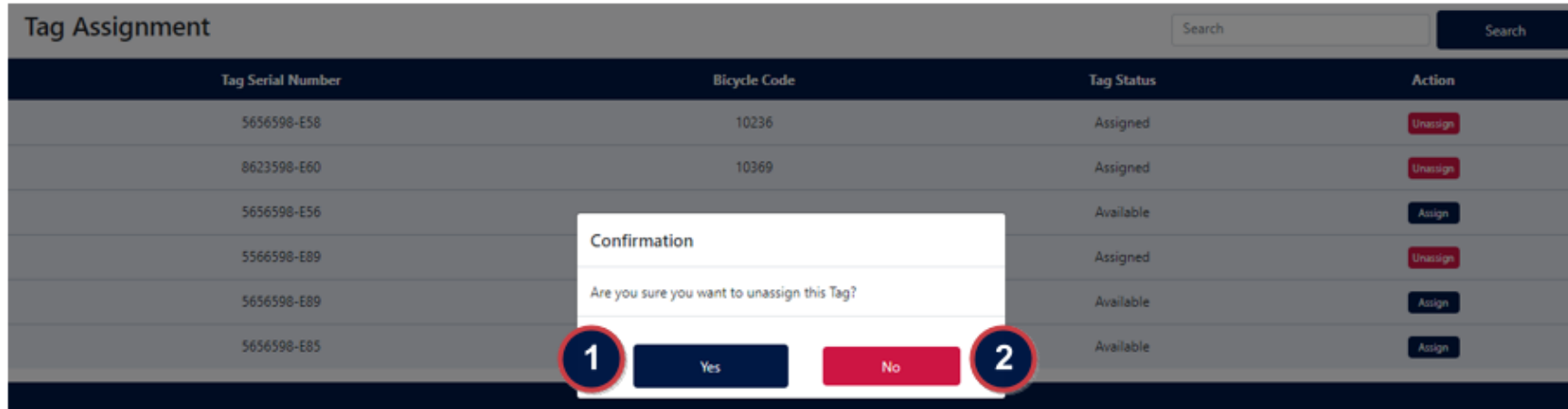


Figure 104 Assign Tag successful screen

Number	Item	Description
1	Button	Assigns a Tag with the details and saves the details to the database
2	Button	Returns the Administrator to the Assignment Screen
3	Buttons	Return the Administrator to the Assignment Management screen.

5.9 Unassign Tag from Bicycle Screen



Tag Assignment

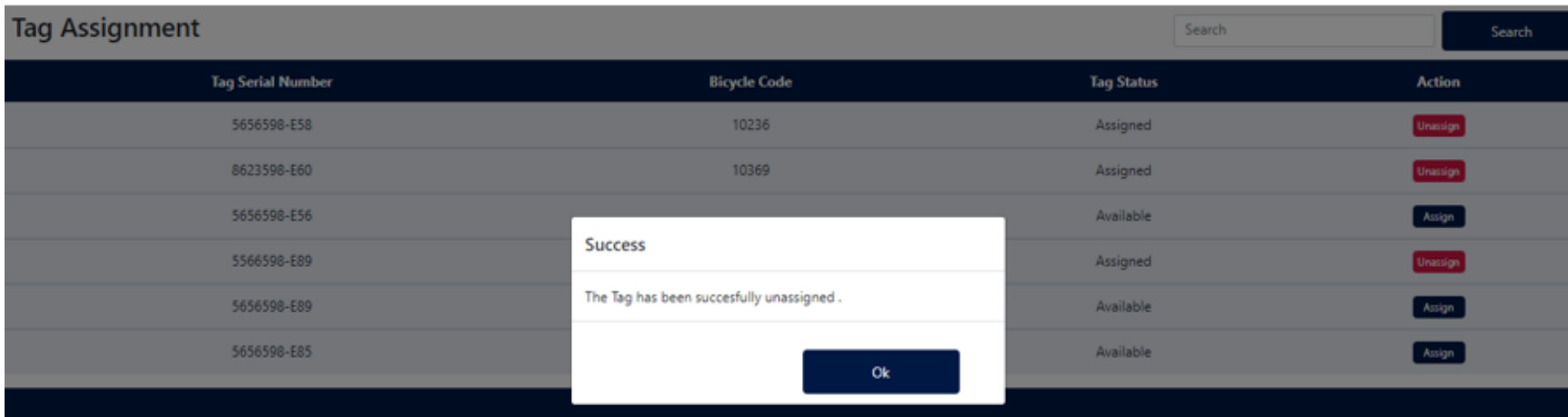
Tag Serial Number	Bicycle Code	Tag Status	Action
5656598-E58	10236	Assigned	Unassign
8623598-E60	10369	Assigned	Unassign
5656598-E56		Available	Assign
5566598-E89		Assigned	Unassign
5656598-E89		Available	Assign
5656598-E85		Available	Assign

Confirmation
Are you sure you want to unassign this Tag?

1 Yes 2 No

Figure 105 Unassign Tag confirmation screen

Followed by:



Tag Assignment

Tag Serial Number	Bicycle Code	Tag Status	Action
5656598-E58	10236	Assigned	Unassign
8623598-E60	10369	Assigned	Unassign
5656598-E56		Available	Assign
5566598-E89		Assigned	Unassign
5656598-E89		Available	Assign
5656598-E85		Available	Assign

Success
The Tag has been successfully unassigned.

Ok

Figure 106 Unassign Tag successful screen



Number	Item	Description
1	Button	Unassigns a Tags with the details and saves the details to the database
2	Button	Returns the Administrator to the Assignment Screen
3	Buttons	Return the Administrator to the Assignment Management screen.



6 Sub-System 6: Bicycle Part

6.1 Bicycle Part Management Screen

Bicycle Part Management 1				2 + Search 3 Search 4
Part Name 5	Part Description 6	Bicycle Section 7	Action 8	
Chain	Connects wheel to pedal	Body		
Front Brakes	Helps the bike stop	Front wheel		
Rear Tyre	Surrounds the bike spoke	Rear Wheel		
Seat	Allows the user to sit on their bike	Body		
Bike Frame	Keeps the bike together	Body		
Bell	Ding Dong	Body		

Figure 107 Bicycle Part Management Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Bicycle Part screen
3	Textbox	The Super Administrator can enter in the Part's name to be searched
4	Button	Finds the Bicycle Part with the specified details and displays them
5	Table column	Displays all the Bicycle Part names in the system
6	Table column	Displays all the Bicycle Part descriptions in the system
7	Table column	Displays all the Bicycle Part corresponding Sections in the system
8	Button	Redirects the Super Administrator to the View Bicycle Part screen



6.2 Create Bicycle Part Screen

The screenshot shows a 'Create Bicycle Part' form with the following elements:

- 1** Title: Bicycle Part
- 2** Part Name: Chain
- 3** Part Description: Moves the wheels forward together
- 4** Bicycle Section: Body
- 5** Create Part button
- 6** Cancel button
- 7** Chain icon
- 8** Part Name label
- 9** Part Description label
- 10** Bicycle Section label

Figure 108 Create Bicycle Part Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the Part
3	Textbox	Allows the Super Administrator to enter a Bicycle Name
4	Label	Displays the Description of the Part
5	Textbox	Allows the Super Administrator to enter a Part Description
6	Label	Displays the Section of the Bicycle Part
7	Dropdown	Allows the Super Administrator to select a Bicycle Section
8	Button	Displays the Confirmation dialog
9	Button	Redirects the Super Administrator to the Bicycle Part Management screen
10	Image	Displays the specific part's picture. Editable by selecting it.



Figure 109 Create Bicycle Part Error Screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen

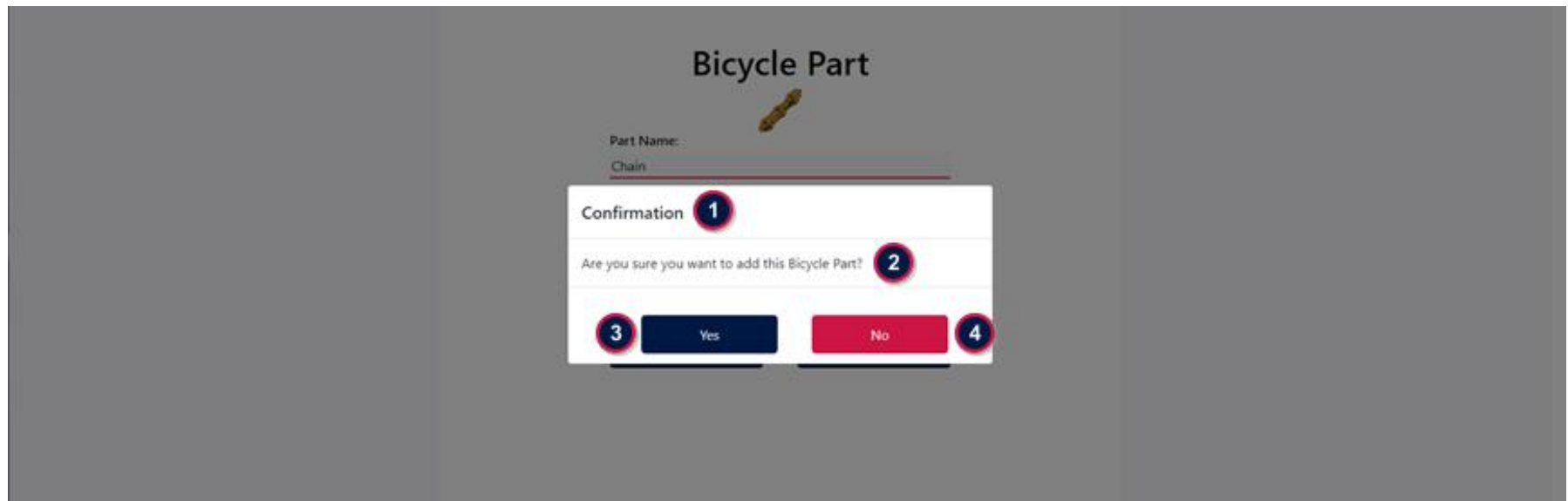


Figure 110 Create Bicycle Part Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Creates a new Bicycle Part with the details from the Bicycle Part screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Part screen

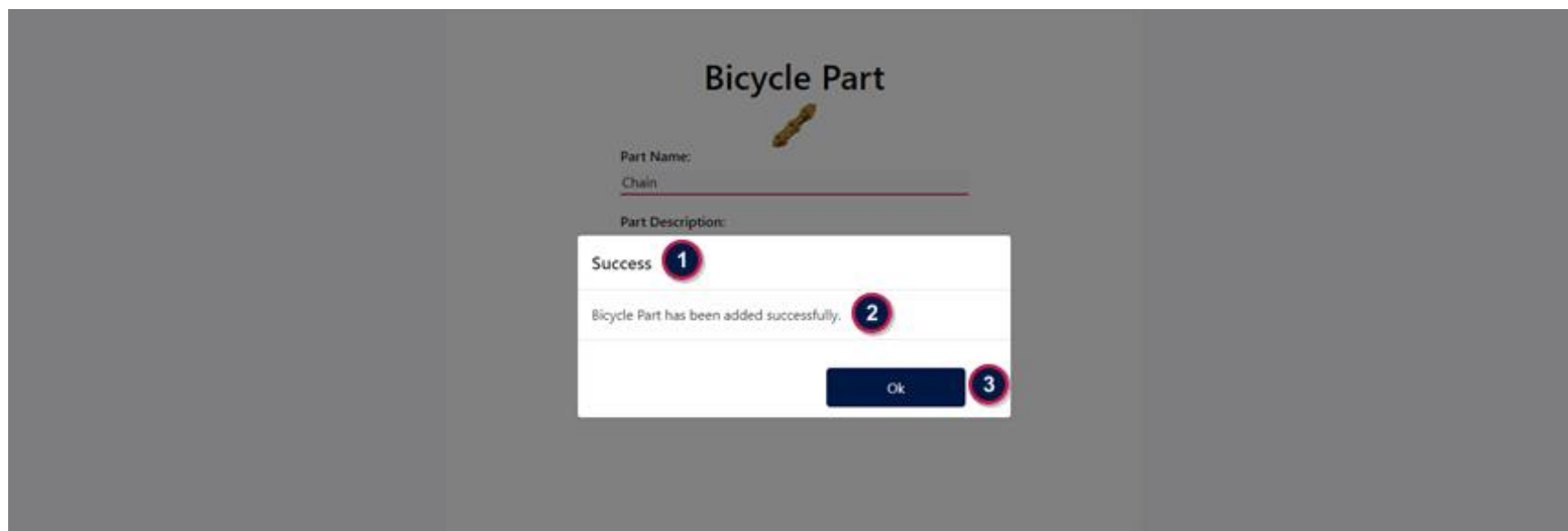


Figure 111 Create Bicycle Part Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Part Management screen



6.3 View Bicycle Part Screen

The screenshot shows a web form titled "Bicycle Part" with the following elements:

- 1**: Title "Bicycle Part"
- 2**: Label "Part Name:"
- 3**: Input field containing "Chain"
- 4**: Label "Part Description:"
- 5**: Input field containing "Moves the wheels together"
- 6**: Label "Bicycle Section:"
- 7**: Dropdown menu showing "Body"
- 8**: "Update" button
- 9**: "Delete" button
- 10**: Small image of a bicycle chain link

Figure 112 View Bicycle Part Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the selected Part
3	Textbox	Allows the Super Administrator to edit the Bicycle Name
4	Label	Displays the Description of the selected Part
5	Textbox	Allows the Super Administrator to edit the Part Description
6	Label	Displays the Section of the selected Bicycle Part
7	Dropdown	Allows the Super Administrator to edit the Bicycle Section
8	Button	Displays the Update Confirmation dialog
9	Button	Displays the Delete Confirmation dialog
10	Image	Allows the user to change the picture of the Bicycle Part



Figure 113 Update Bicycle Part Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Updates the Bicycle Part with the details from the Bicycle Part screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Part screen

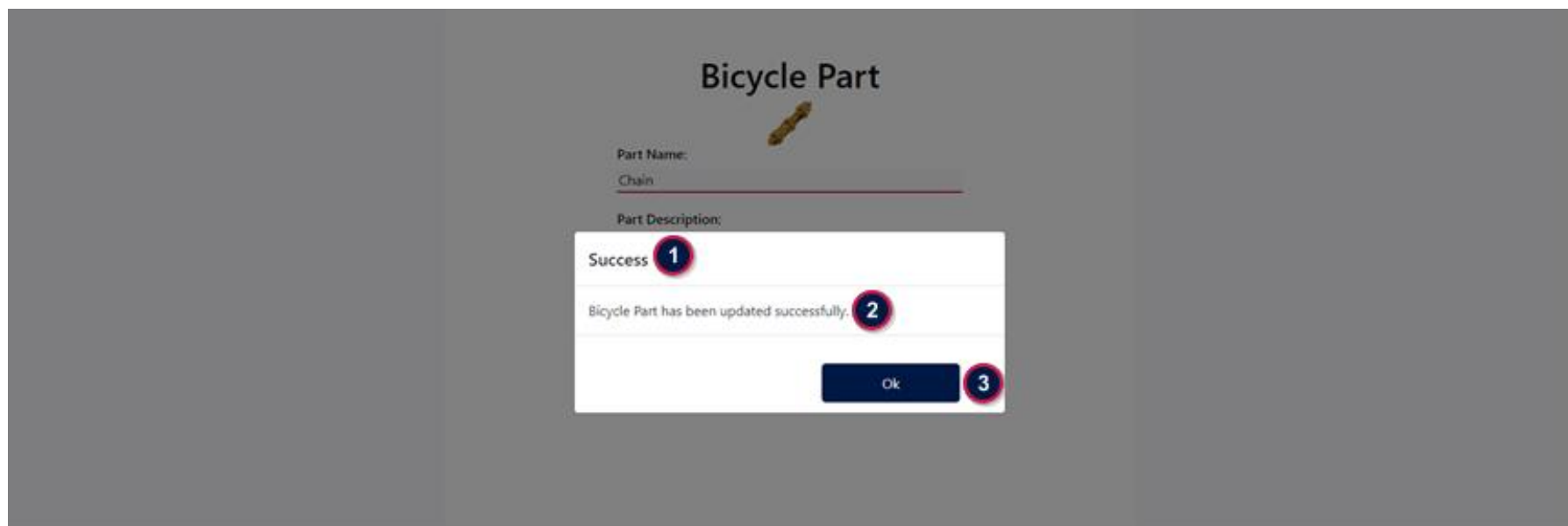


Figure 114 Bicycle Part Updated Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Part Management screen

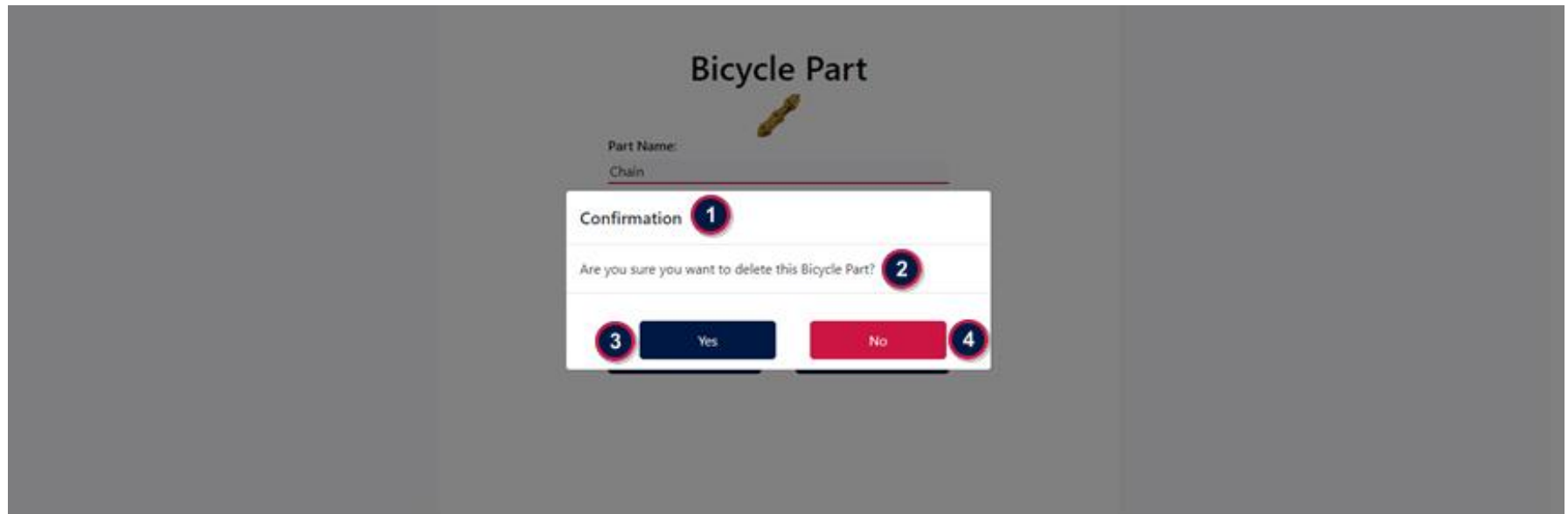


Figure 115 Delete Bicycle Part Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Removes the Bicycle Part and its details from the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Part screen

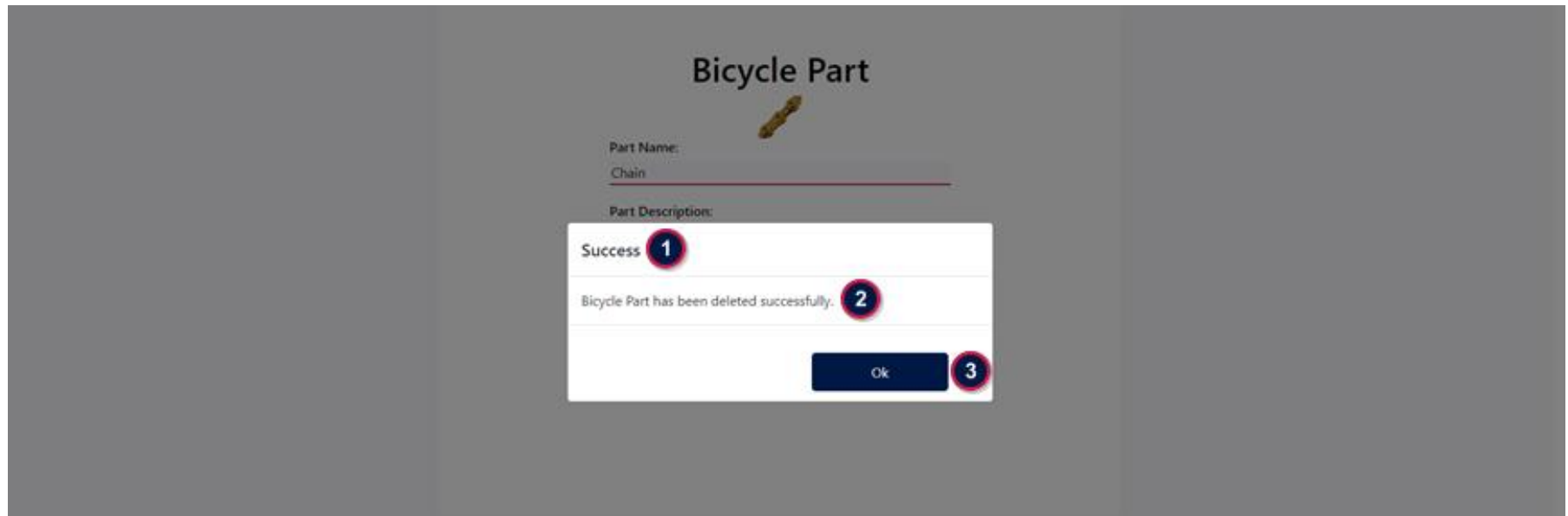


Figure 116 Bicycle Part Deleted Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Part Management screen



6.4 Bicycle Section Management Screen

The screenshot shows the 'Bicycle Section Management' interface. At the top, there is a header bar with the title 'Bicycle Section Management' (1), a '+' button (2), a search input field (3), and a 'Search' button (4). Below the header is a table with three columns: 'Section Name' (5), 'Section Description' (6), and 'Action' (7). The table contains five rows of bicycle parts: Body, Rear Wheel, Front Wheel, Handle Bar, and Chain Area, each with a corresponding description and an edit icon in the action column.

Section Name	Section Description	Action
Body	This keeps everything together	
Rear Wheel	This pushes you forward	
Front Wheel	This is for direction	
Handle Bar	For Kontrol	
Chain Area	The equivalent of a motor	

Figure 117 Bicycle Section Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Bicycle Section screen
3	Textbox	The Super Administrator can enter in the Section's name to be searched
4	Button	Finds the Bicycle Section with the specified details and displays them
5	Table column	Displays all the Bicycle Section names in the system
6	Table column	Displays all the Bicycle Section descriptions in the system
7	Button	Redirects the Super Administrator to the View Bicycle Section screen



6.5 Create Bicycle Section Screen

The screenshot shows a form titled "1 Bicycle Section" with a bicycle icon. The form contains two text input fields: "2 Section Name:" with the value "Body" and "4 Section Description:" with the value "Connects all the sections together". There are two buttons at the bottom: "6 Create Section" and "7 Cancel". A small "8" is located next to the bicycle icon. The form is set against a light gray background.

Figure 118 Create Bicycle Section Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the Section
3	Textbox	Allows the Super Administrator to enter a Section Name
4	Label	Displays the Description of the Section
5	Textbox	Allows the Super Administrator to enter a Section Description
6	Button	Displays the Confirmation dialog
7	Button	Redirects the Super Administrator to the Bicycle Section Management screen
8	Image	Displays the specific section's picture. Editable by selecting it.



Bicycle Section

Section Name: (1)

Please enter a Name (2)

Section Description:
Connects all the Sections together

Error! There was a problem creating a new Bicycle Section. Please try again (3)

Create Section Cancel

Figure 119 Create Bicycle Section Error Screen

Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen

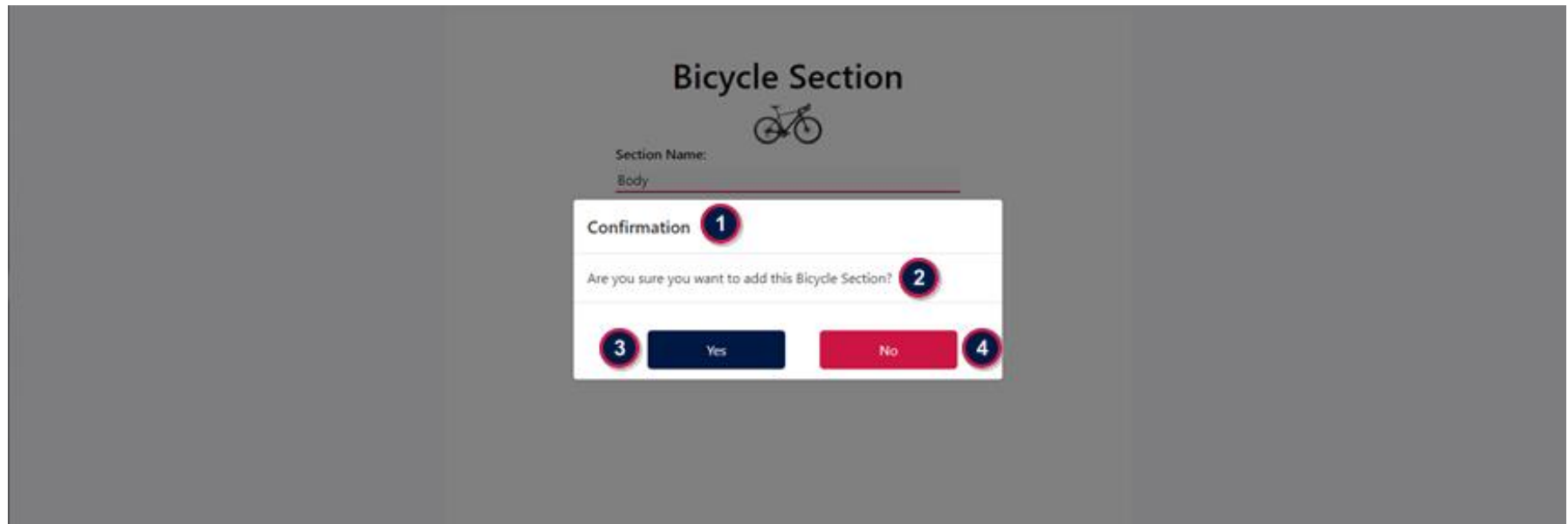


Figure 120 Create Bicycle Section Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Creates a new Bicycle Section with the details from the Bicycle Section screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Part screen



Figure 121 Bicycle Section Created Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Section Management screen



6.6 View Bicycle Section Screen

The screenshot shows a web interface for managing bicycle sections. It features a title 'Bicycle Section' with a bicycle icon. Below the title are two text input fields: 'Section Name' (containing 'Body') and 'Section Description' (containing 'Connects all the sections together'). At the bottom are two buttons: 'Update' and 'Delete'. Eight numbered callouts are present: 1 points to the title, 2 to the 'Section Name' label, 3 to the 'Section Name' input field, 4 to the 'Section Description' label, 5 to the 'Section Description' input field, 6 to the 'Update' button, 7 to the 'Delete' button, and 8 to the bicycle icon.

Figure 122 View Bicycle Section Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the selected Section
3	Textbox	Allows the Super Administrator to edit the Section Name
4	Label	Displays the Description of the selected Section
5	Textbox	Allows the Super Administrator to edit the Section Description
6	Button	Displays the Update Confirmation dialog
7	Button	Displays the Delete Confirmation dialog
8	Image	Allows the user to change the picture of the Bicycle Section

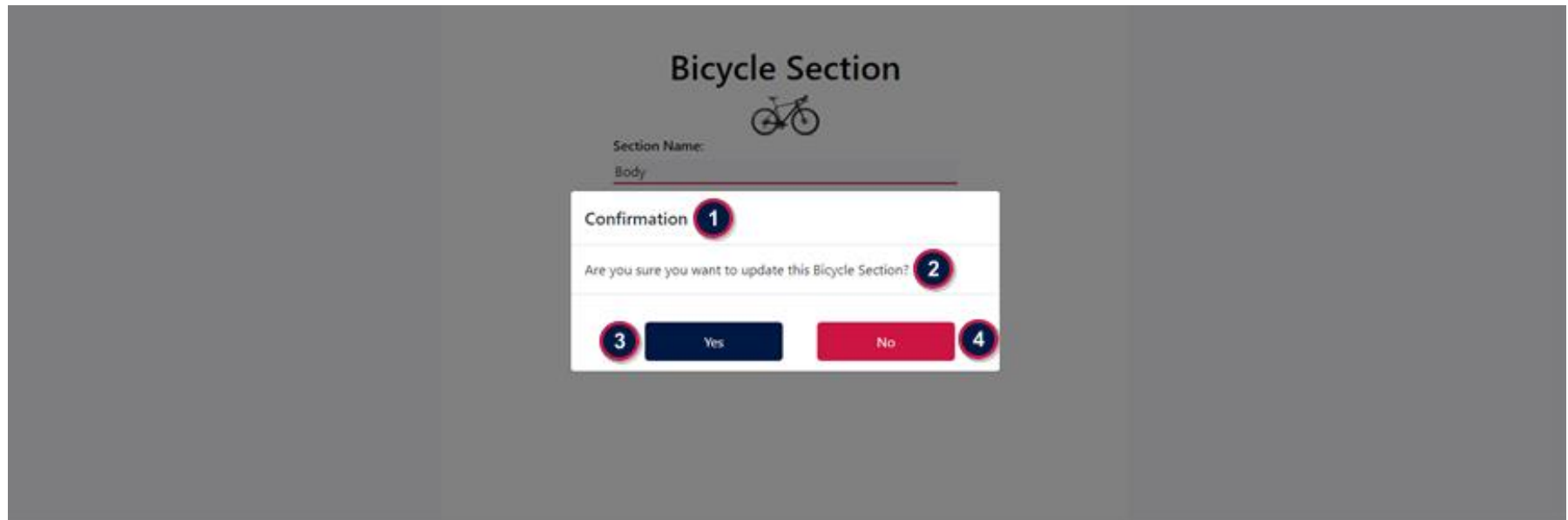


Figure 123 Update Bicycle Section Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Updates the Bicycle Section with the details from the Bicycle Section screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Section screen



Figure 124 Bicycle Section Updated Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Section Management screen

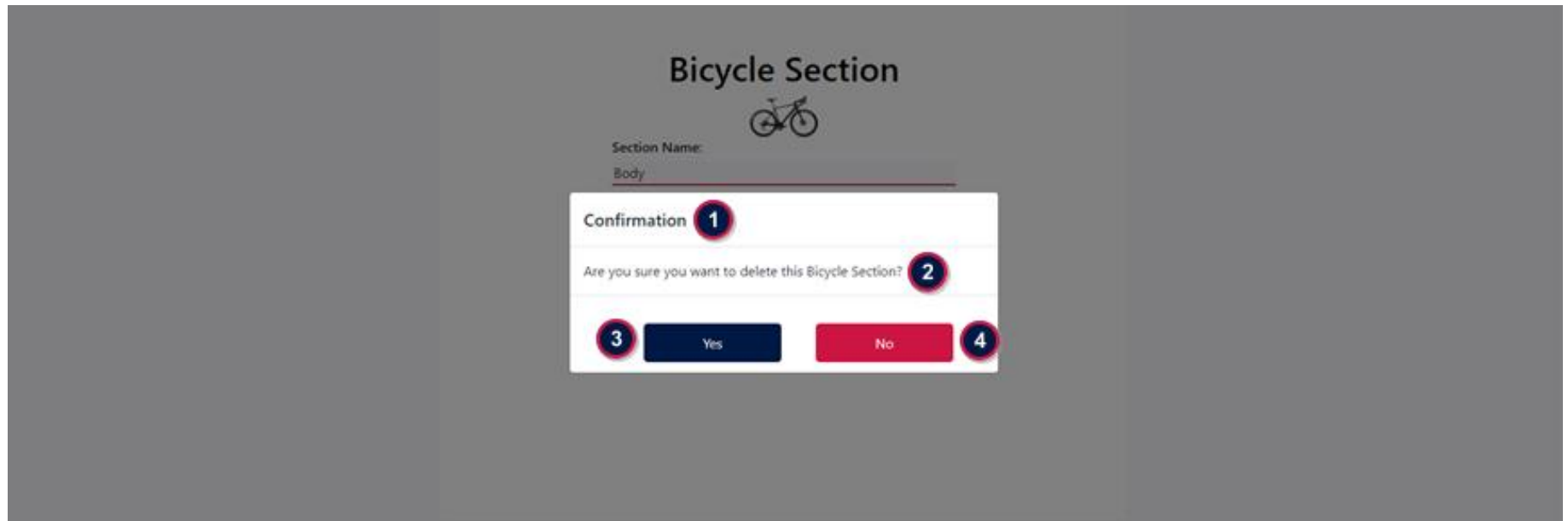


Figure 125 Delete Bicycle Section Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Removes the Bicycle Section and its details from the database
4	Button	No button Redirects the Super Administrator to the previous Bicycle Section screen



Figure 126 Bicycle Section Deleted Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the Bicycle Section Management screen



7 Sub-System 7: Tracking

7.1 Search Log Entry Screen

The screenshot shows the 'Log Entry' screen in the ERP system. It features a navigation bar at the top with 'Home', 'Administrator Management', and 'Systems Management' menus. The main heading is 'Log Entry'. Below the heading is a search bar with a 'Search' button. A table lists log entries with columns for 'Tag ID', 'Student Name', and 'Actions'. The 'Actions' column contains eye icons. Numbered callouts are placed over the interface: 1 points to the 'Log Entry' heading, 2 points to the search bar, 3 points to the search button, 4 points to the 'Tag ID' column header, and 5 points to the eye icon in the 'Actions' column for the second entry.

Tag ID	Student Name	Actions
89312	Penny Doe	
22132	John Ann	
12312	Ricardo sanchez	
42425	Mike John	
56323	Ted bean	
63241	Kyle ui	

Figure 127 Search Log Entry Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The Super Administrator can enter in the Student Name or Tag ID
3	Button	Finds the Log Entry with the specified details and displays them
4	Table	Table to show all the Log Entry in the system and their Student Name's
5	Button	Allows the Super Administrator to see more details



7.2 Route Management Screen

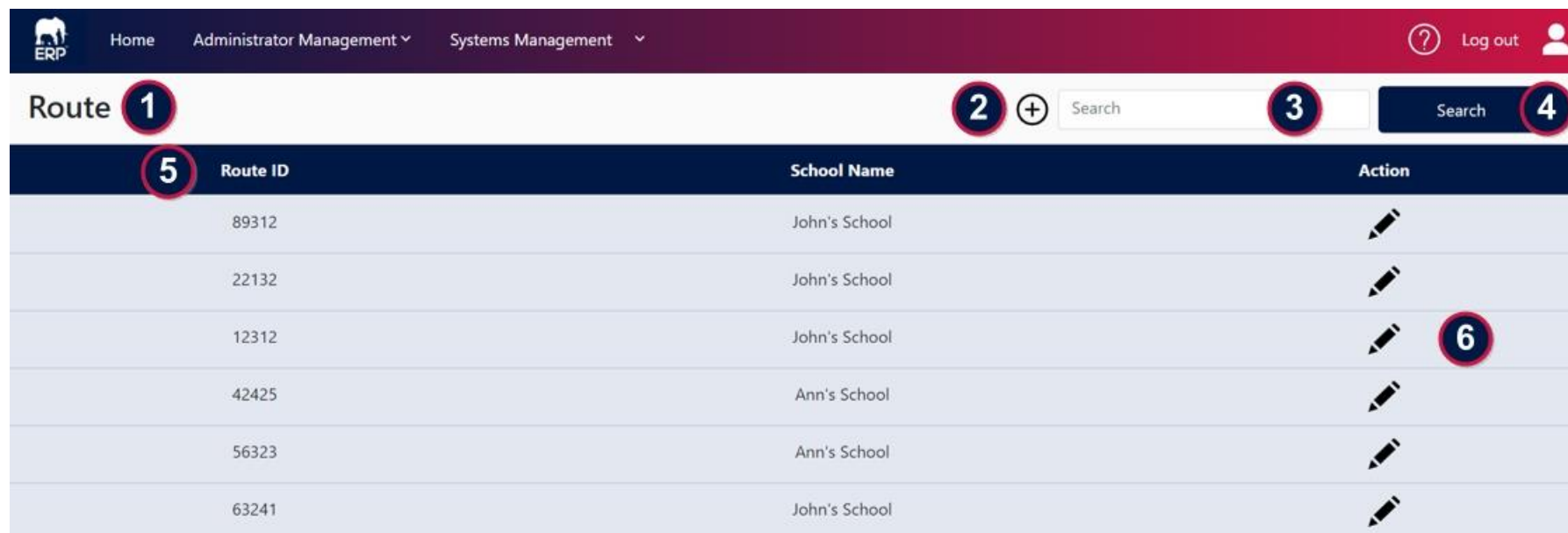


Figure 128 Route Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Route page
3	Textbox	The Super Administrator can enter in the Route ID or School Name
4	Button	Finds the Route with the specified details and displays them
5	Table	Table to show all the Routes in the system and their School Name's
6	Button	Redirects the Super Administrator to the View Route screen



7.3 Create Route Screen



The screenshot displays the 'Create Route' interface. At the top, the title 'Route' is followed by a dropdown menu for 'School'. Below this is a section for 'Antenna A:' containing a text field for 'Antenna Position' and a dropdown for 'Antenna ID'. A second section, 'Antenna B:', also includes a text field for 'Antenna Position' and a dropdown for 'Antenna ID'. At the bottom, there are three buttons: 'Add Antenna', 'Create', and 'Cancel'.

1 Route

2 School: 3 --Select--

4 Antenna A: 5

6 Antenna Position: 7

8 Antenna ID: 9 --Select--

10 Antenna B:

Antenna Position:

Antenna ID: --Select--

11 Add Antenna 12 Create 13 Cancel

Figure 129 Create Route Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Schools that are in the system
3	Textbox	Allows the Super Administrator to select a School
4	Group Box	This Group Box contains the Attributes for the specific Antenna
5	Label	Displays which Antenna the Group Box is representing
6	Label	Displays the Position of the Antenna
7	Textbox	Allows the Super Administrator to enter a Position
8	Label	Displays the AntennaID of the Antenna
9	Dropdown Menu	Allows the Super Administrator to select an Antenna available in the system
10	Group Box	This Group Box is almost identical to the first Antenna except it is for a different antenna
11	Button	Allows the Super Administrator to add another Antenna to the Route
12	Button	Displays the Create Confirmation dialog
13	Button	Redirects the Super Administrator to the Route Management screen



Route

School:

--Select--

Please select a school

Antenna A:

Antenna Position:

Antenna ID:

1

Antenna B:

Antenna Position:

Antenna ID:

2

Error! There was a problem creating a new Route please try again

Add Antenna

Create

Cancel

1

2

3

Figure 130 Create Route Error Screen



Number	Item	Description
1	Dropdown menu	This dropdown has been left unselected on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a Route

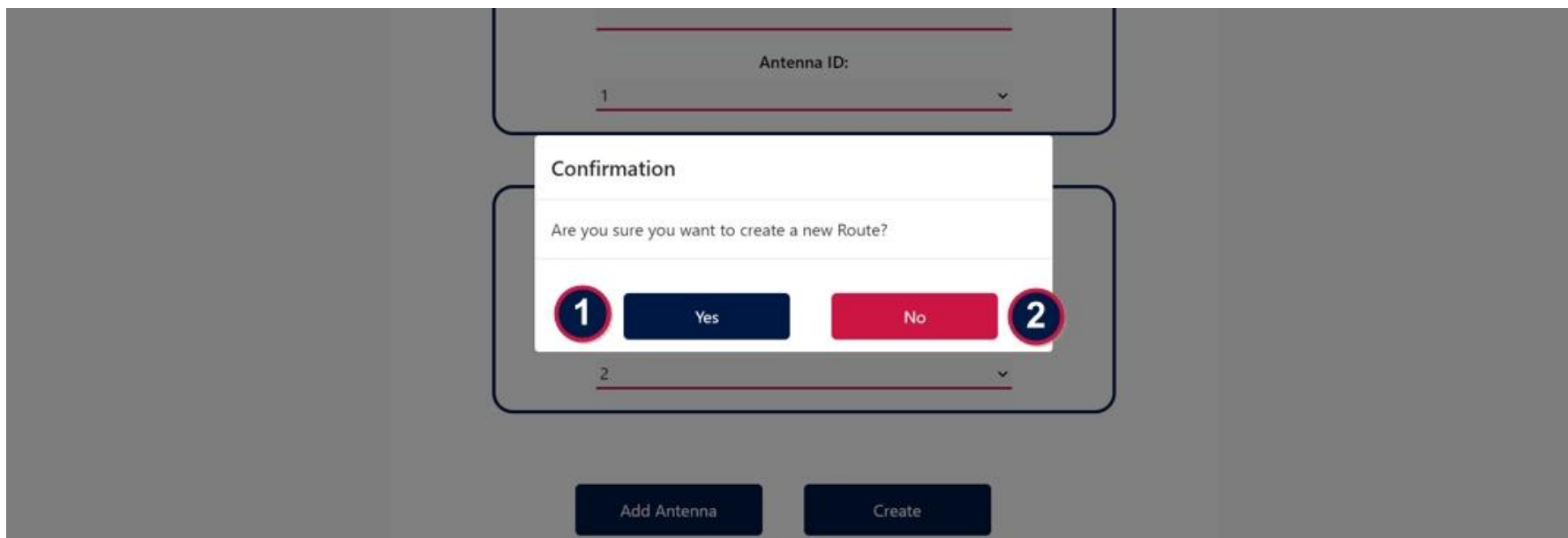


Figure 131 Create Route Confirmation Screen

Number	Item	Description
1	Button	Creates a new Route with the details from the Create Route screen and saves the details to the database
2	Button	Returns the Super Administrator to the Create Route screen

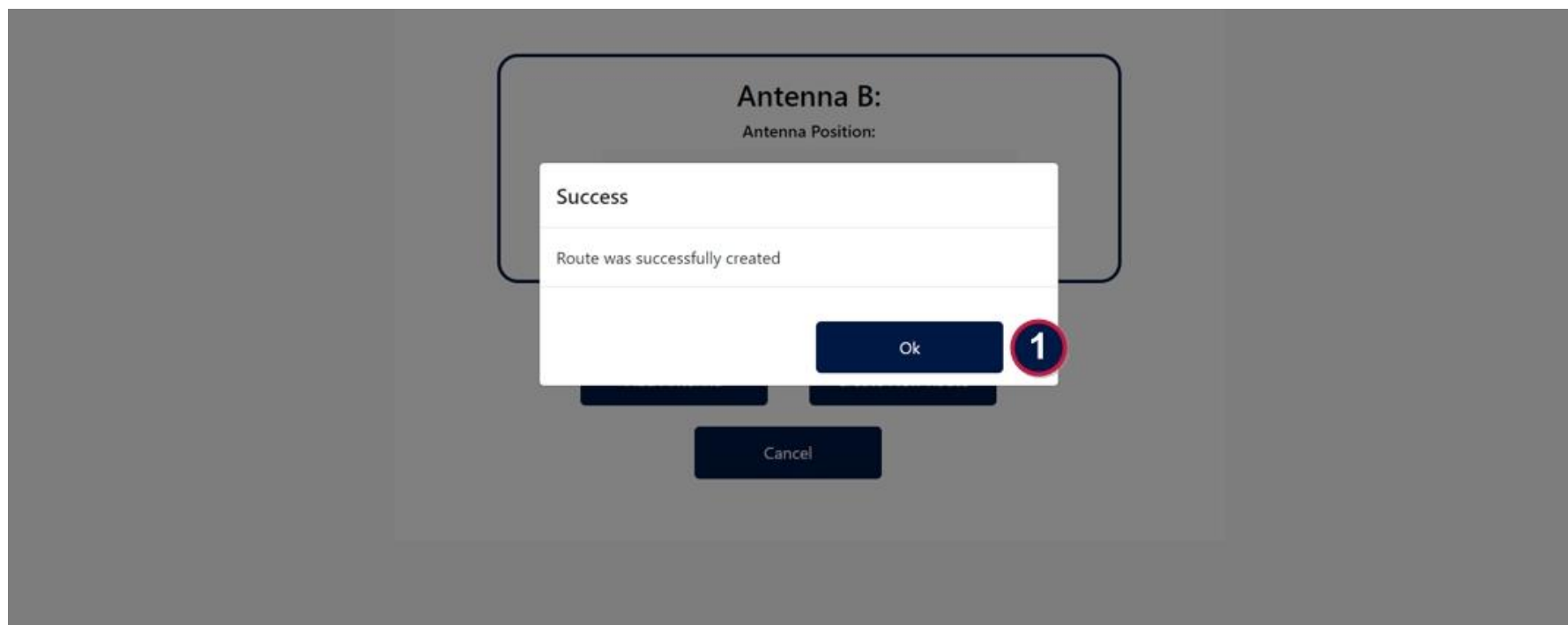


Figure 132 Route Successfully Created Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Route management screen



7.4 View Route Screen

The screenshot displays the 'View Route' screen with the following elements and callouts:

- 1**: Route title
- 2**: School label
- 3**: School dropdown menu (showing 'John's school')
- 4**: Antenna A section header
- 5**: Antenna A title
- 6**: Antenna A Position label
- 7**: Antenna A Position input field
- 8**: Antenna A ID label
- 9**: Antenna A ID dropdown menu (showing '1')
- 10**: Antenna B section header
- 11**: Add Antenna button
- 12**: Update button
- 13**: Delete button

Figure 133 View Route Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Schools that are in the system
3	Textbox	Allows the Super Administrator to select a School
4	Group Box	This Group Box contains the Attributes for the specific Antenna
5	Label	Displays which Antenna the Group Box is representing
6	Label	Displays the Position of the Antenna
7	Textbox	Allows the Super Administrator to enter a Position
8	Label	Displays the AntennaID of the Antenna
9	Dropdown Menu	Allows the Super Administrator to select an Antenna available in the system
10	Group Box	This Group Box is almost identical to the first Antenna except it is for a different antenna
11	Button	Allows the Super Administrator to add another Antenna to the Route
12	Button	Displays the Update Confirmation dialog
13	Button	Displays the Delete Confirmation dialog

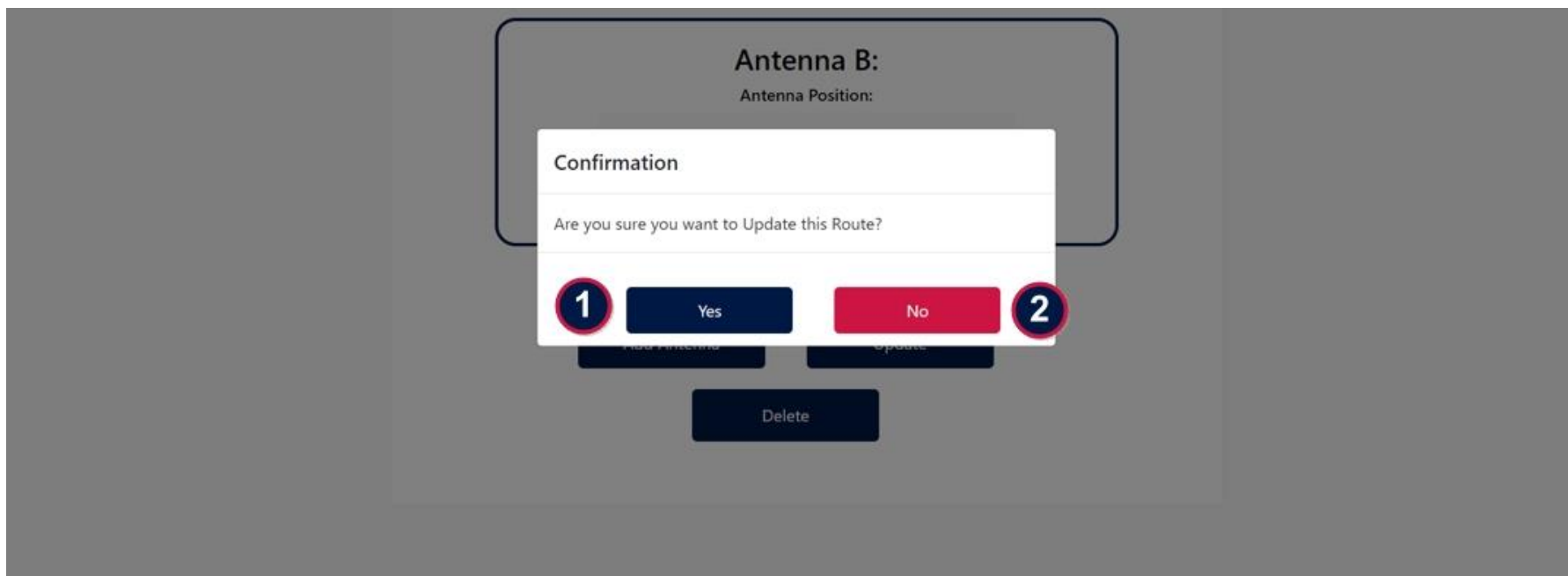


Figure 134 Update Route Confirmation Screen

Number	Item	Description
1	Button	Updates the Route with the details from the View Route screen and saves the details to the database
2	Button	Returns the Super Administrator to the View Route screen



Figure 135 Route Successfully Updated Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Route management screen

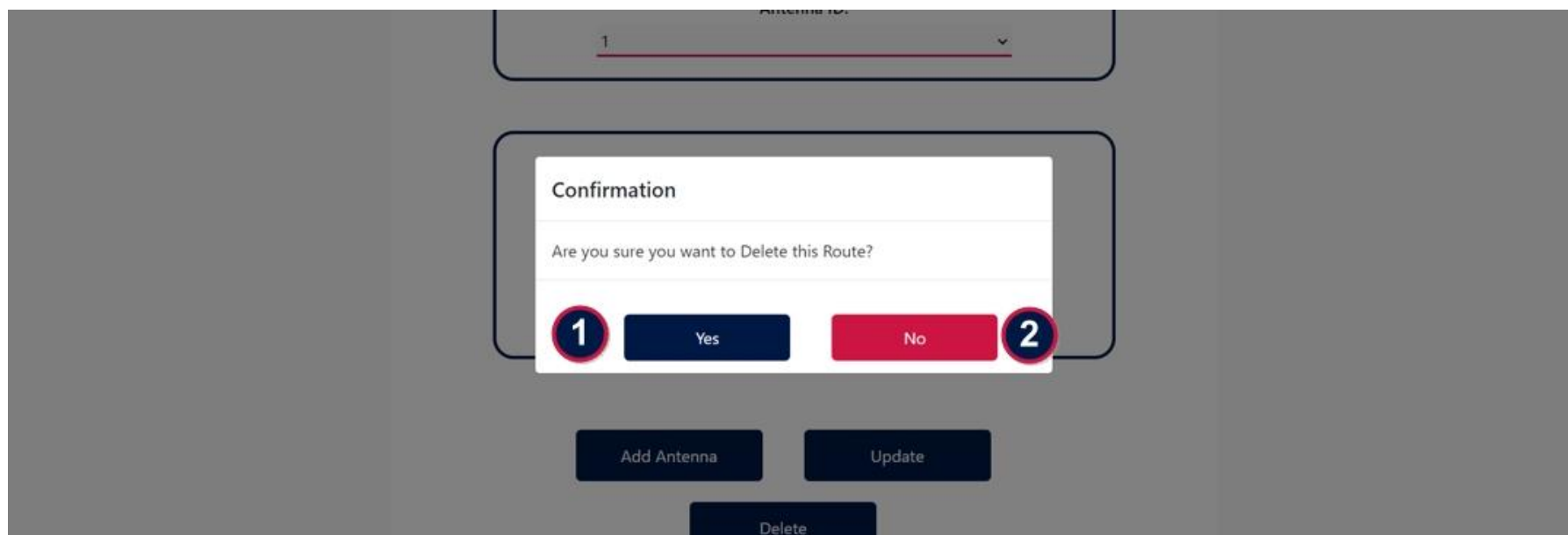


Figure 136 Delete Route Confirmation Screen

Number	Item	Description
1	Button	Removes the Route and its details (like RouteAntenna) from the database
2	Button	Returns the Super Administrator to the View Route screen

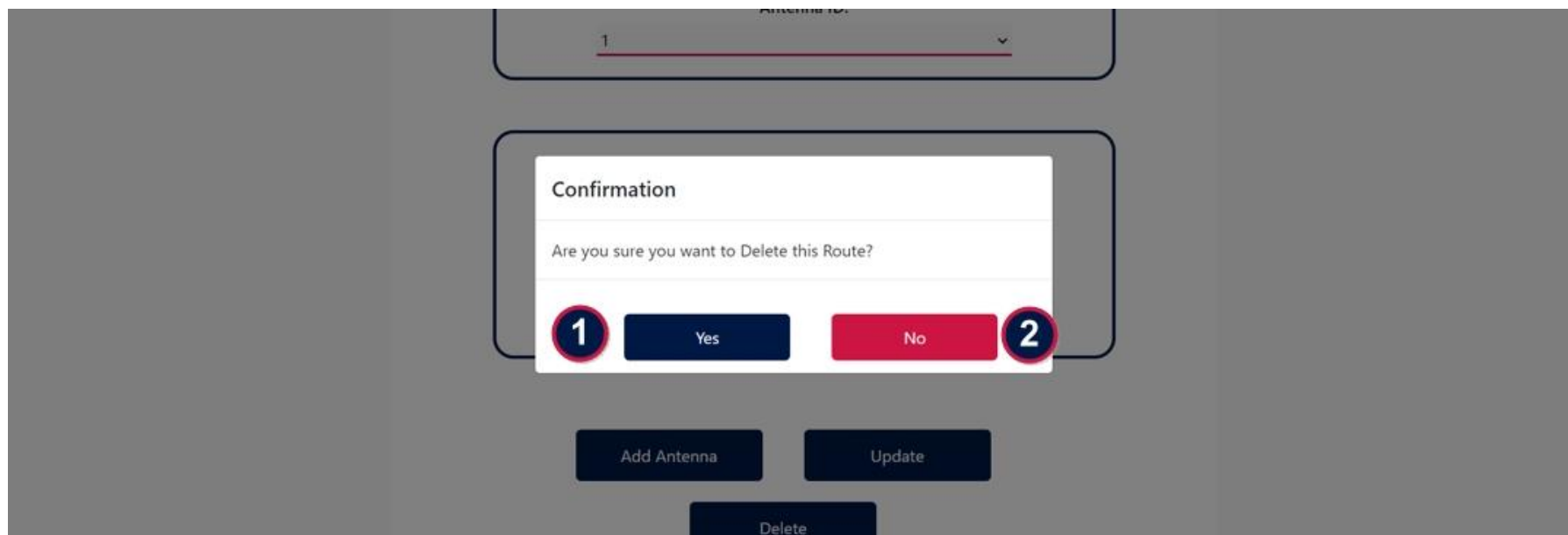


Figure 137 Route Successfully Deleted Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Route management screen



8 Sub-System 8: Job Tasks

8.1 Fault Task Management Screen

The screenshot shows the 'Fault Task' management interface. At the top is a navigation bar with 'Home', 'Administrator Management', and 'Systems Management' menus, along with a 'Log out' button and a user profile icon. Below the navigation bar, the title 'Fault Task' is followed by a search bar and a 'Search' button. A table with three columns: 'Fault Task', 'Fault Task Description', and 'Action' is displayed. The table contains six rows of fault tasks. Each row has an edit icon in the 'Action' column. Numbered callouts are placed over the interface: 1 points to the 'Fault Task' title, 2 points to the search bar, 3 points to the search button, 4 points to the search button, 5 points to the table header, and 6 points to the edit icon in the 'Action' column of the 'Broken chain' row.

Fault Task	Fault Task Description	Action
Punctured Tyre	Use patch kit to patch tube hole	
Broken chain	Replace broken chain with a functioning chain	
Brakes dont work	Tighten breaks or replace brakes	
No seat	Fit a bicycle seat onto the bicycle	
Bike Frame loose	Tighten all screws on bike frame	
Bell broken	Replace bell and fit it onto the bicycle	

Figure 138 Fault Task Management Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Fault Task page
3	Textbox	The Super Administrator can enter in the Fault Task
4	Button	Finds the Fault Task with the specified details and displays them
5	Table	Table to show all the Fault Task's in the system and their Description's
6	Button	Redirects the Super Administrator to the View Fault Task screen



8.2 Create Fault Task Screen

The screenshot shows a 'Fault Task' form with the following elements:

- 1**: Title 'Fault Task' at the top center.
- 2**: Label 'Fault Task:' on the left.
- 3**: Input field containing 'Bike Shattered'.
- 4**: Label 'Fault Task Description:' on the left.
- 5**: Input field containing 'There are cracks on the frame which could lead to it sha!'.
- 6**: 'Create' button.
- 7**: 'Cancel' button.

Figure 139 Create Fault Task Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Fault Task of the Fault Task
3	Textbox	Allows the Super Administrator to enter a Fault Task
4	Label	Displays the Description of the Fault Task
5	Textbox	Allows the Super Administrator to enter a Description
6	Button	Displays the Create Confirmation dialog
7	Button	Redirects the Super Administrator to the Fault Task Management screen



Figure 140 Create Fault Task Error Screen

Number	Item	Description
1	Textbox	This textbox has been left unselected on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a Fault Task

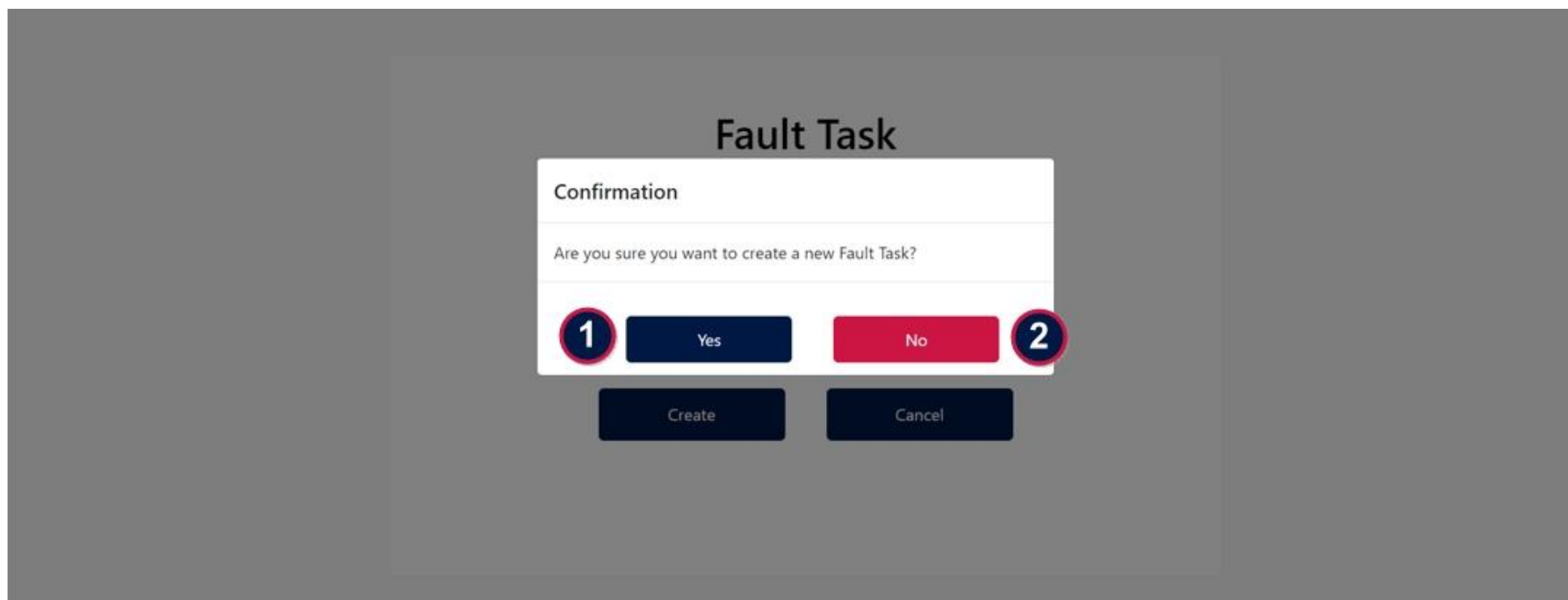


Figure 141 Create Fault Task Confirmation Screen

Number	Item	Description
1	Button	Creates a new Fault Task with the details from the Create Fault Task screen and saves the details to the database
2	Button	Returns the Super Administrator to the Create Fault Task screen

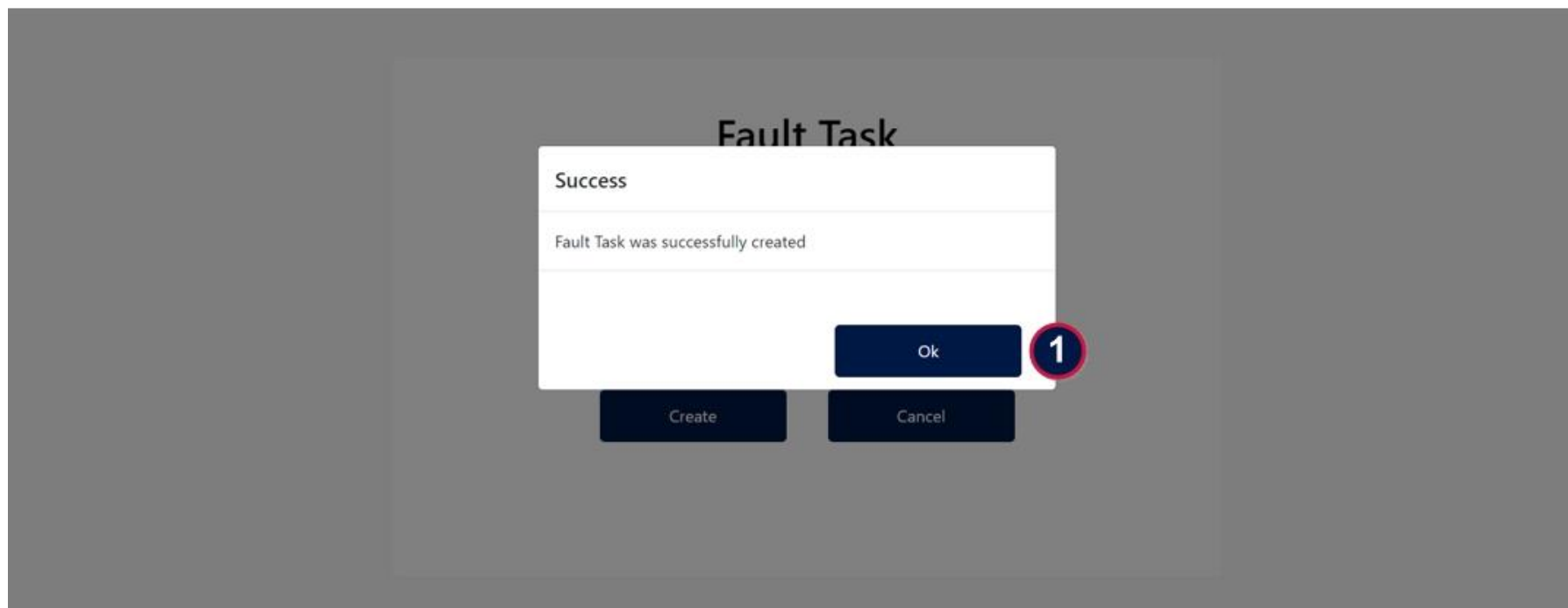


Figure 142 Fault Task Successfully Created Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Fault Task management screen



8.3 View Fault Task Screen

The screenshot displays the 'View Fault Task' interface. At the top, the title 'Fault Task' is followed by a red circle containing the number 1. Below this, there are two input fields. The first is labeled 'Fault Task:' with a red circle containing the number 2; it contains the text 'Punctured Tire' and is followed by a red circle containing the number 3. The second is labeled 'Fault Task Description:' with a red circle containing the number 4; it contains the text 'The Tire has been punctured' and is followed by a red circle containing the number 5. At the bottom, there are two buttons: 'Update' and 'Delete'. The 'Update' button is preceded by a red circle containing the number 6, and the 'Delete' button is followed by a red circle containing the number 7.

Figure 143 View Fault Task Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Fault Task of the Fault Task
3	Textbox	Allows the Super Administrator to enter a Fault Task
4	Label	Displays the Description of the Fault Task
5	Textbox	Allows the Super Administrator to enter a Description
6	Button	Displays the Update Confirmation dialog
7	Button	Displays the Delete Confirmation dialog

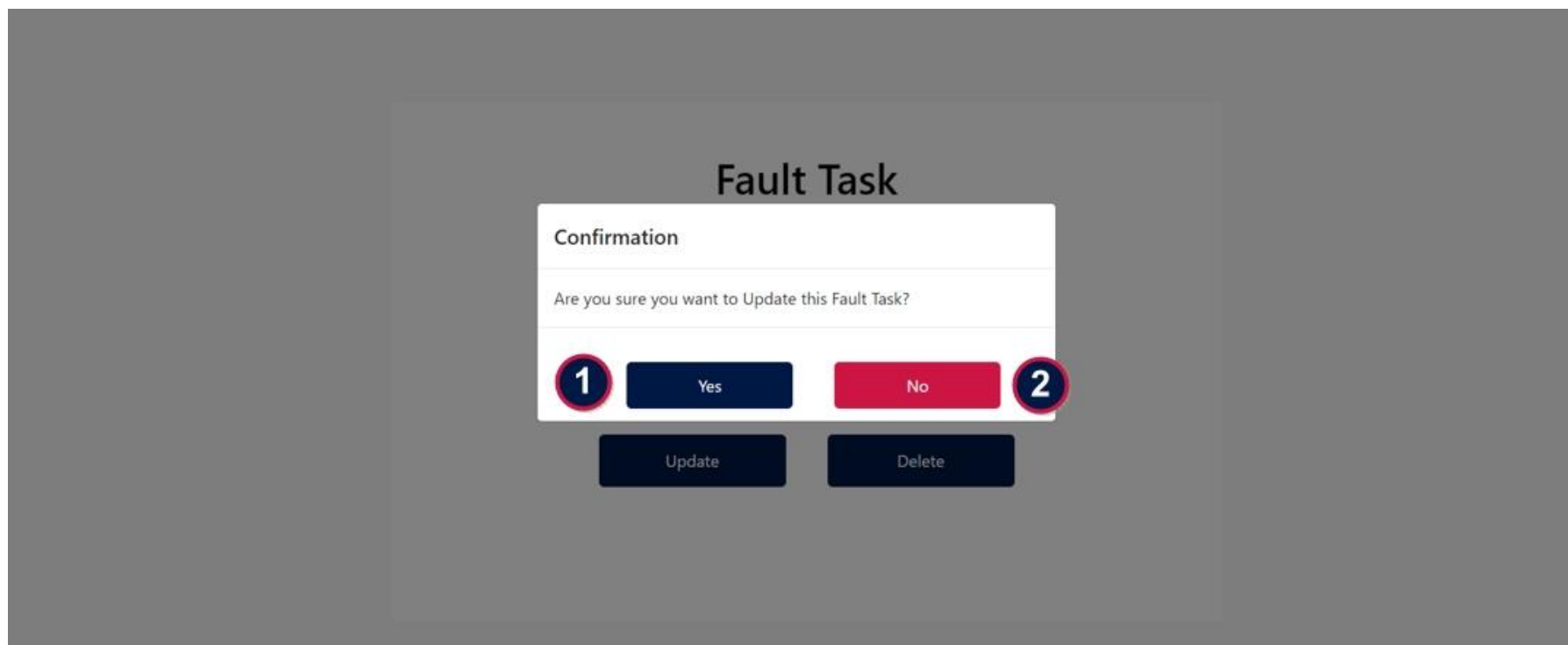


Figure 144 Update Fault Task Confirmation Screen

Number	Item	Description
1	Button	Updates the Fault Task with the details from the View Fault Task screen and saves the details to the database
2	Button	Returns the Super Administrator to the View Fault Task screen

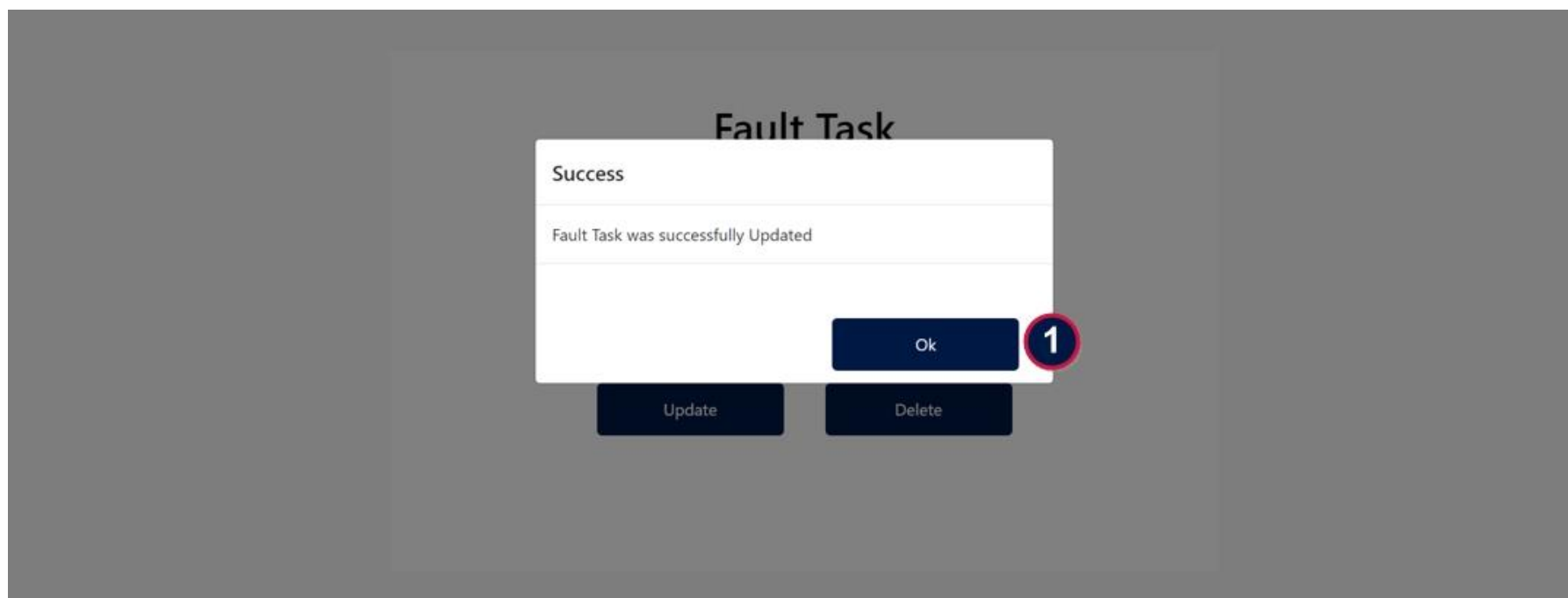


Figure 145 Fault Task Successfully Updated Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Fault Task management screen

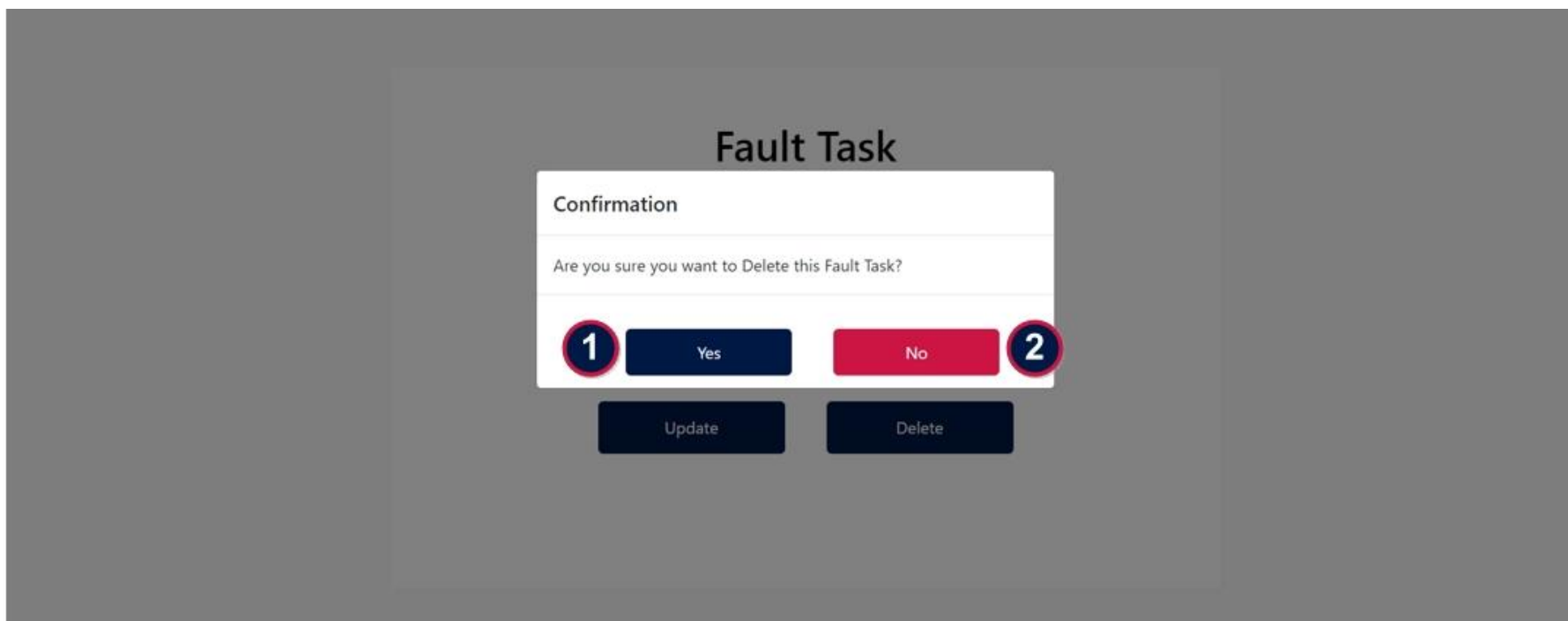


Figure 146 Delete Fault Task Confirmation Screen

Number	Item	Description
1	Button	Removes the Fault Task and its details from the database
2	Button	Returns the Super Administrator to the View Fault Task screen

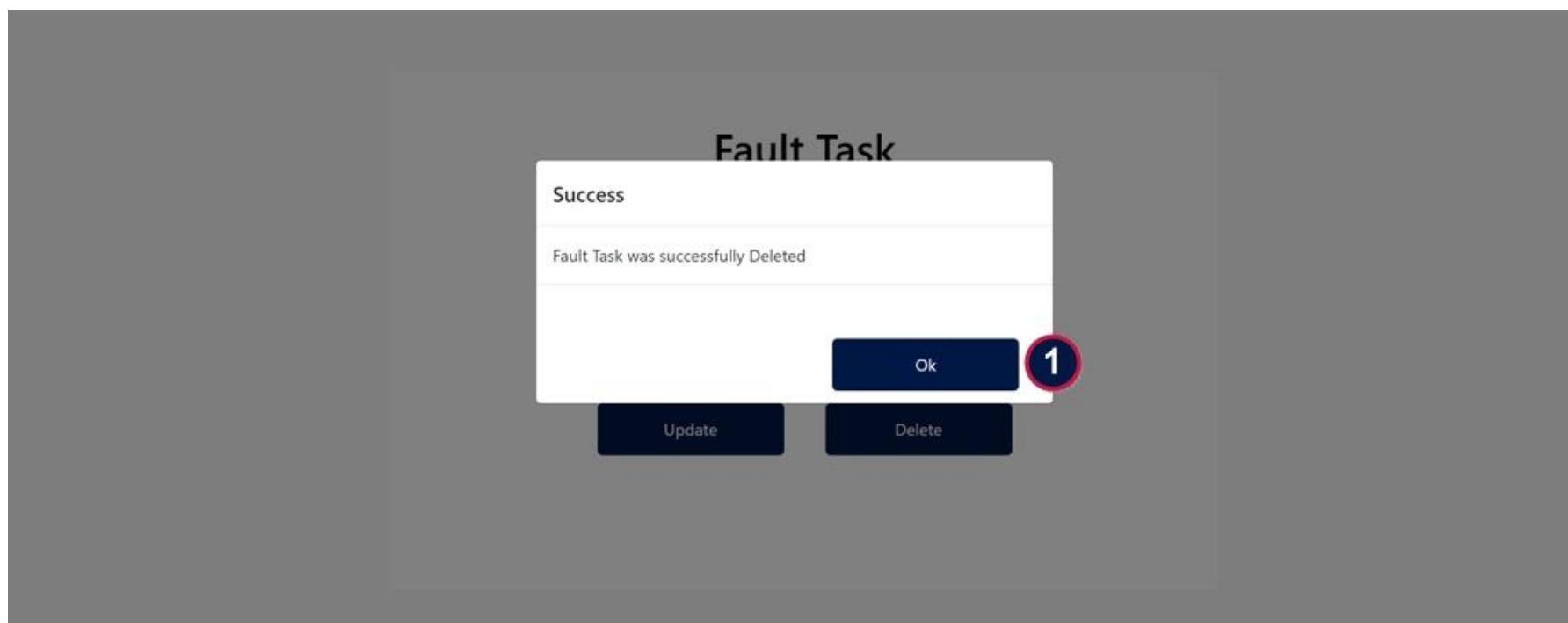


Figure 147 Fault Task Successfully Deleted Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Fault Task management screen



8.4 Maintenance Task Management Screen

The screenshot shows the Maintenance Task Management interface. At the top is a navigation bar with 'Home', 'Administrator Management', and 'Systems Management' menus. On the right of the navigation bar are a help icon, 'Log out', and a user profile icon. Below the navigation bar is a header section with 'Maintenance Task' (callout 1), a plus icon (callout 2), a search input field (callout 3), and a search button (callout 4). The main content area is a table with three columns: 'Maintenance Task' (callout 5), 'Maintenance Task Description', and 'Action'. The table lists six tasks: 'Pump up Tyre', 'Oil chain', 'Brakes check', 'Gear check', 'Bike Frame check', and 'Bell check'. Each task has a corresponding description and an edit icon in the 'Action' column. The 'Oil chain' row has a callout 6 pointing to its edit icon.

Maintenance Task	Maintenance Task Description	Action
Pump up Tyre	Use pump to inflate bicycle tyre	
Oil chain	Lightly grease chain with chain fluid	(6)
Brakes check	Tighten breaks	
Gear check	Ensure gears are operational	
Bike Frame check	Tighten all screws on bike frame	
Bell check	Ensure bicycle bell is still loud	

Figure 148 Maintenance Task Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create Maintenance Task page
3	Textbox	The Super Administrator can enter in the Maintenance Task
4	Button	Finds the Maintenance Task with the specified details and displays them
5	Table	Table to show all the Maintenance Task's in the system and their Description's
6	Button	Redirects the Super Administrator to the View Maintenance Task screen



8.5 Create Maintenance Task Screen

The screenshot shows a 'Maintenance Task' form. At the top is the title 'Maintenance Task' with a red circle 1 next to it. Below the title are two input fields. The first field is labeled 'Maintenance Task:' with a red circle 2 to its left; it contains the text 'Oil Chain' and has a red circle 3 to its right. The second field is labeled 'Maintenance Task Description:' with a red circle 4 to its left; it contains the text 'The mechanic reapplies oil to the Bicycle Chain' and has a red circle 5 to its right. At the bottom of the form are two buttons: 'Create' with a red circle 6 to its left, and 'Cancel' with a red circle 7 to its right.

Figure 149 Create Maintenance Task Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Maintenance Task of the Maintenance Task
3	Textbox	Allows the Super Administrator to enter a Maintenance Task
4	Label	Displays the Description of the Maintenance Task
5	Textbox	Allows the Super Administrator to enter a Description
6	Button	Displays the Create Confirmation dialog
7	Button	Redirects the Super Administrator to the Maintenance Task Management screen



Maintenance Task

Maintenance Task:

Please enter a Maintenance Task ×

Maintenance Task Description:

a test description

Error! There was a problem creating a new Maintenance Task, please try again ×

Create Cancel

Figure 150 Create Maintenance Task Error Screen

Number	Item	Description
1	Textbox	This textbox has been left unselected on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error creating a Maintenance Task

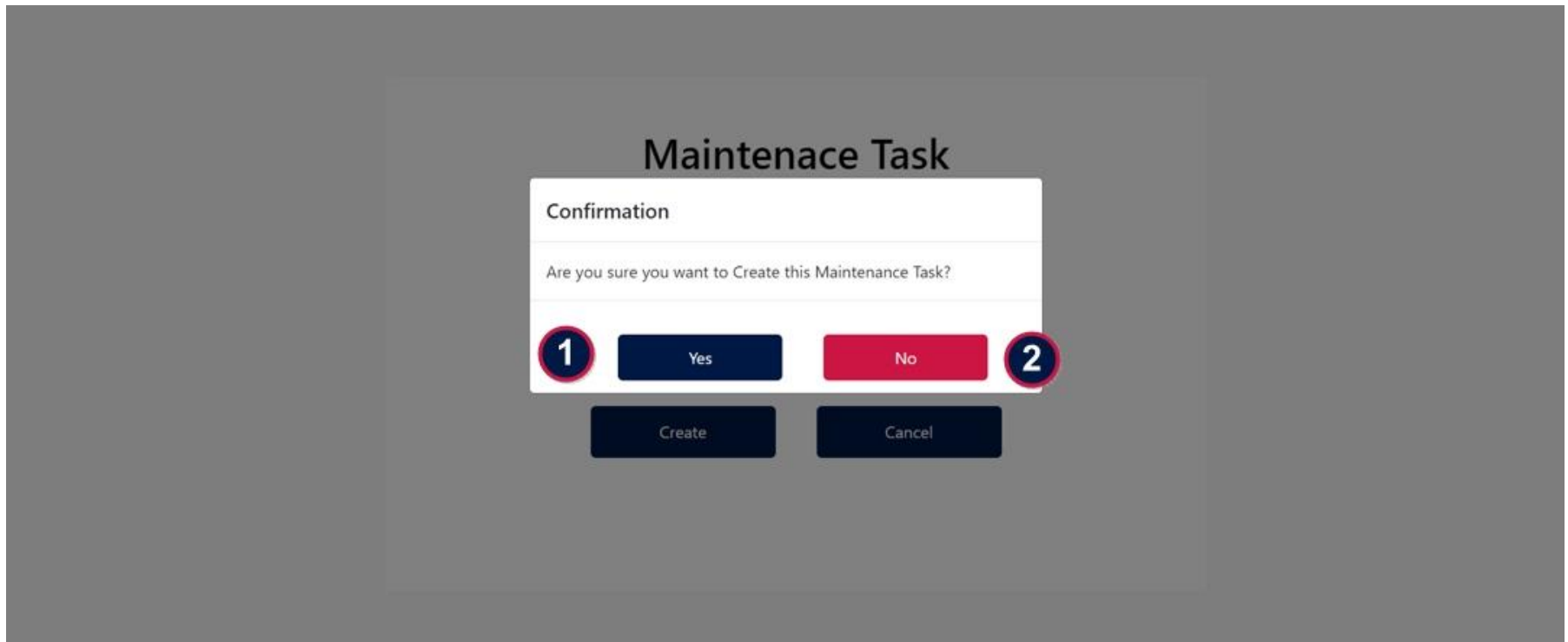


Figure 151 Create Maintenance Task Confirmation Screen

Number	Item	Description
1	Button	Creates a new Maintenance Task with the details from the Create Maintenance Task screen and saves the details to the database
2	Button	Returns the Super Administrator to the Create Maintenance Task screen

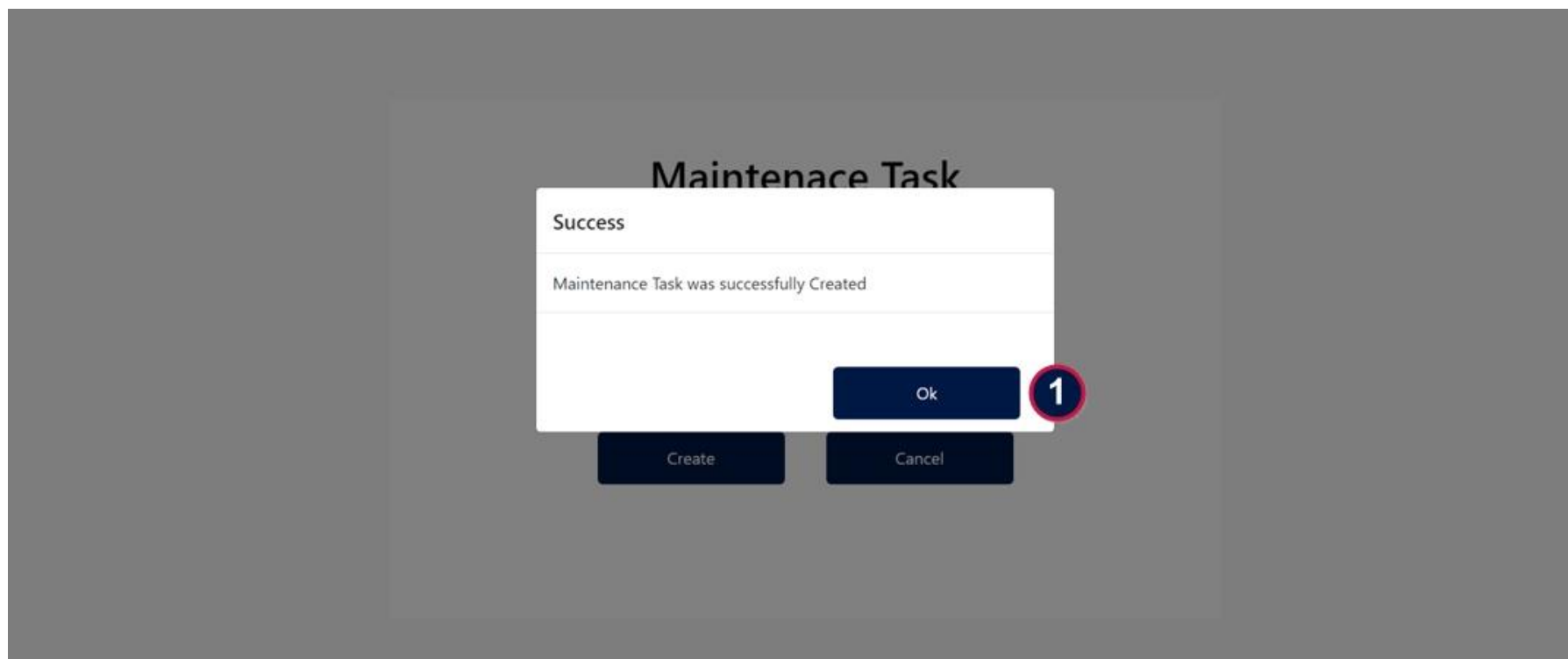


Figure 152 Maintenance Task Successfully created Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Maintenance Task management screen



8.6 View Maintenance Task Screen

The screenshot shows a web application interface for viewing a maintenance task. The title "Maintenance Task" is at the top, with a red circle containing the number 1 next to it. Below the title, there are two text input fields. The first field is labeled "Maintenance Task:" with a red circle containing the number 2 to its left. The text "Oil Chain" is entered in this field, and a red circle containing the number 3 is to its right. The second field is labeled "Maintenance Task Description:" with a red circle containing the number 4 to its left. The text "Mechanic needs to re-apply oil onto the chain" is entered in this field, and a red circle containing the number 5 is to its right. At the bottom of the form, there are two buttons: "Update" and "Delete". A red circle containing the number 6 is to the left of the "Update" button, and a red circle containing the number 7 is to the right of the "Delete" button.

Figure 153 View Maintenance Task Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Maintenance Task of the Fault Task
3	Textbox	Allows the Super Administrator to enter a Maintenance Task
4	Label	Displays the Description of the Fault Task
5	Textbox	Allows the Super Administrator to enter a Description
6	Button	Displays the Update Confirmation dialog
7	Button	Displays the Delete Confirmation dialog

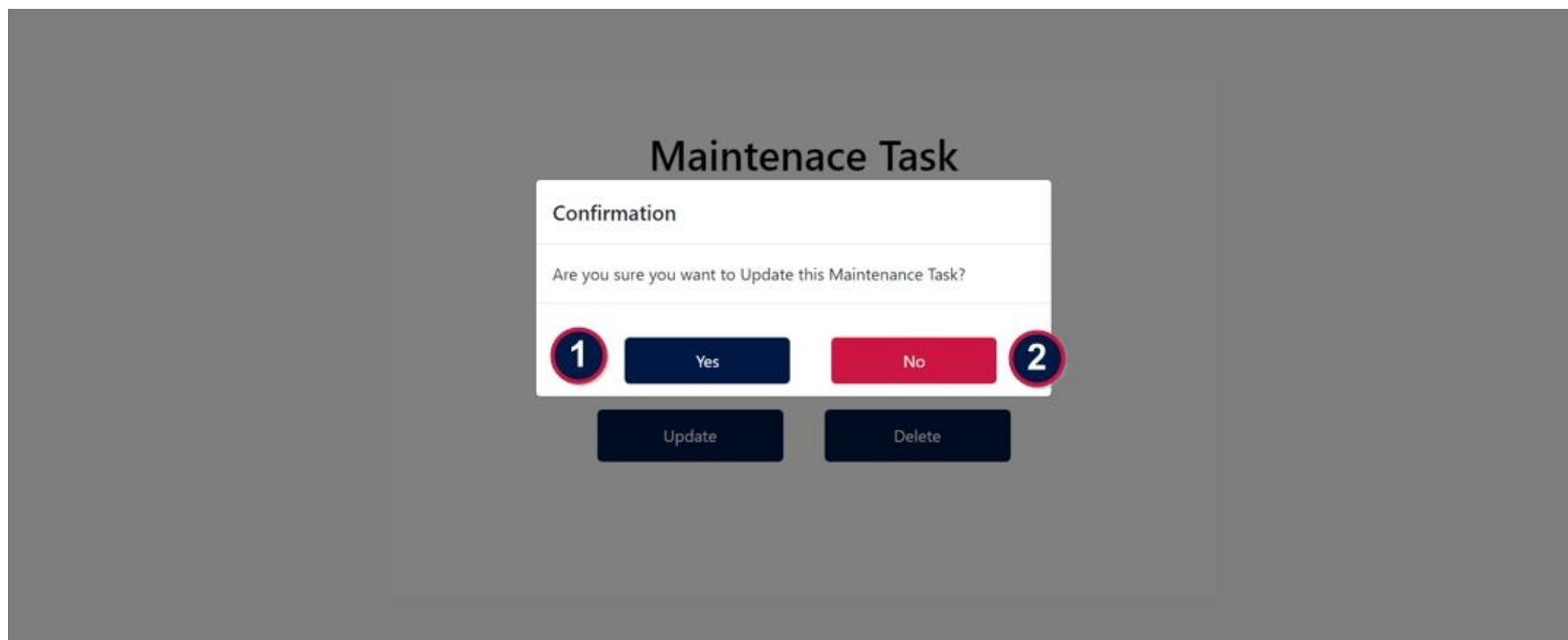


Figure 154 Update Maintenance Task Confirmation Screen

Number	Item	Description
1	Button	Updates the Maintenance Task with the details from the View Maintenance Task screen and saves the details to the database
2	Button	Returns the Super Administrator to the View Maintenance Task screen

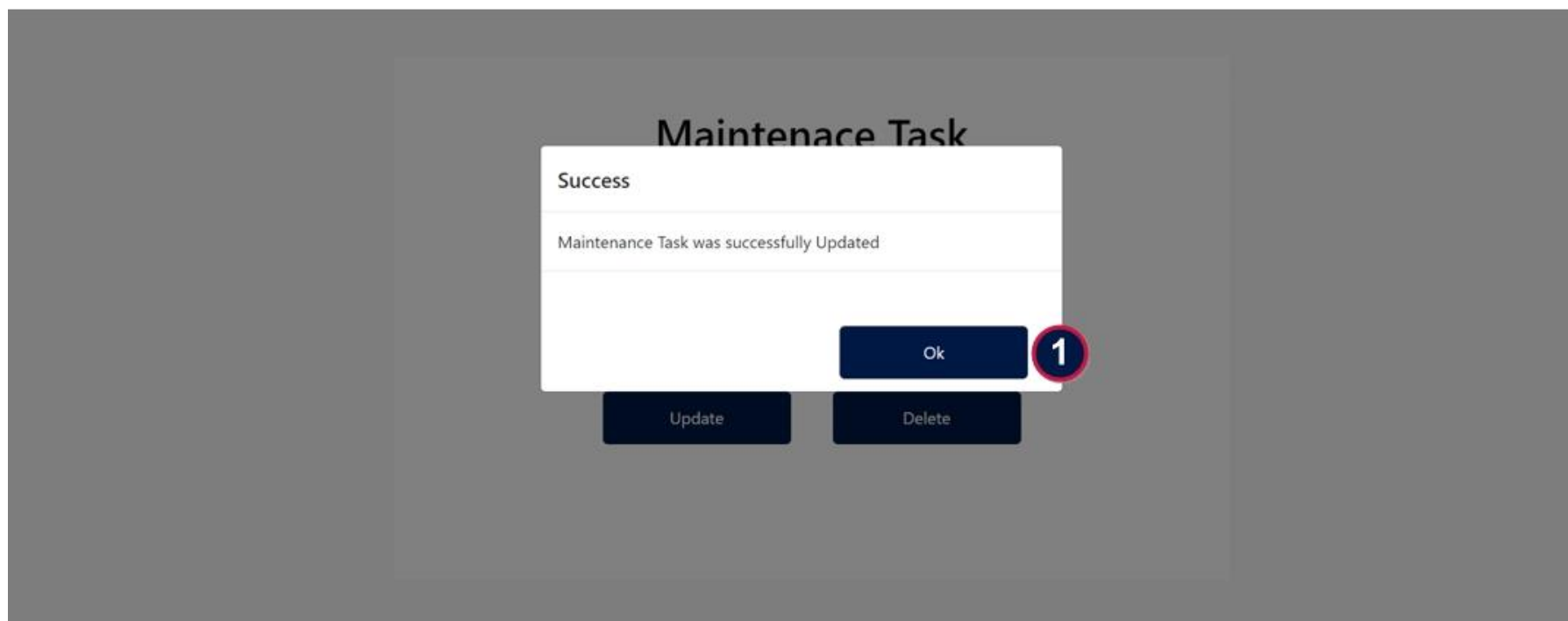


Figure 155 Maintenance Task Successfully Updated Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Maintenance Task management screen

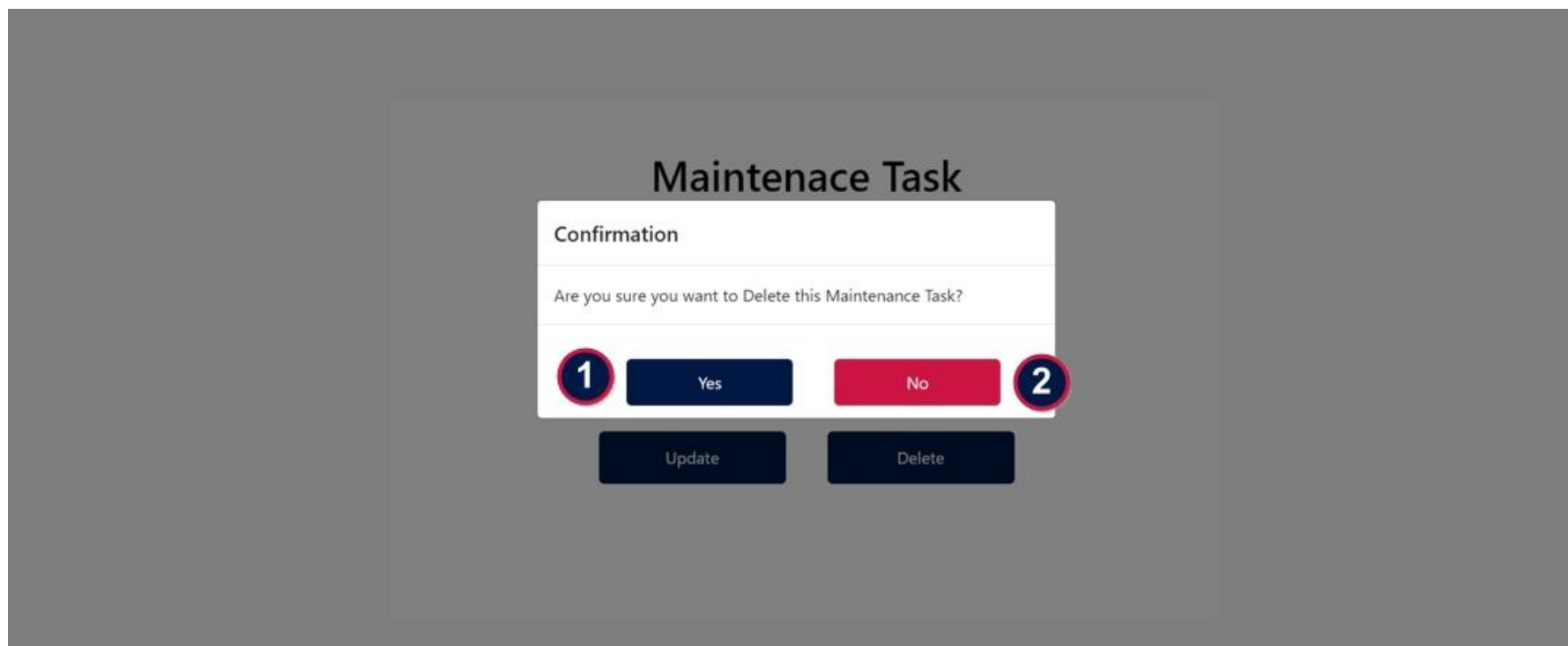


Figure 156 Delete Maintenance Task Confirmation Screen

Number	Item	Description
1	Button	Removes the Maintenance Task and its details from the database
2	Button	Returns the Super Administrator to the View Maintenance Task screen

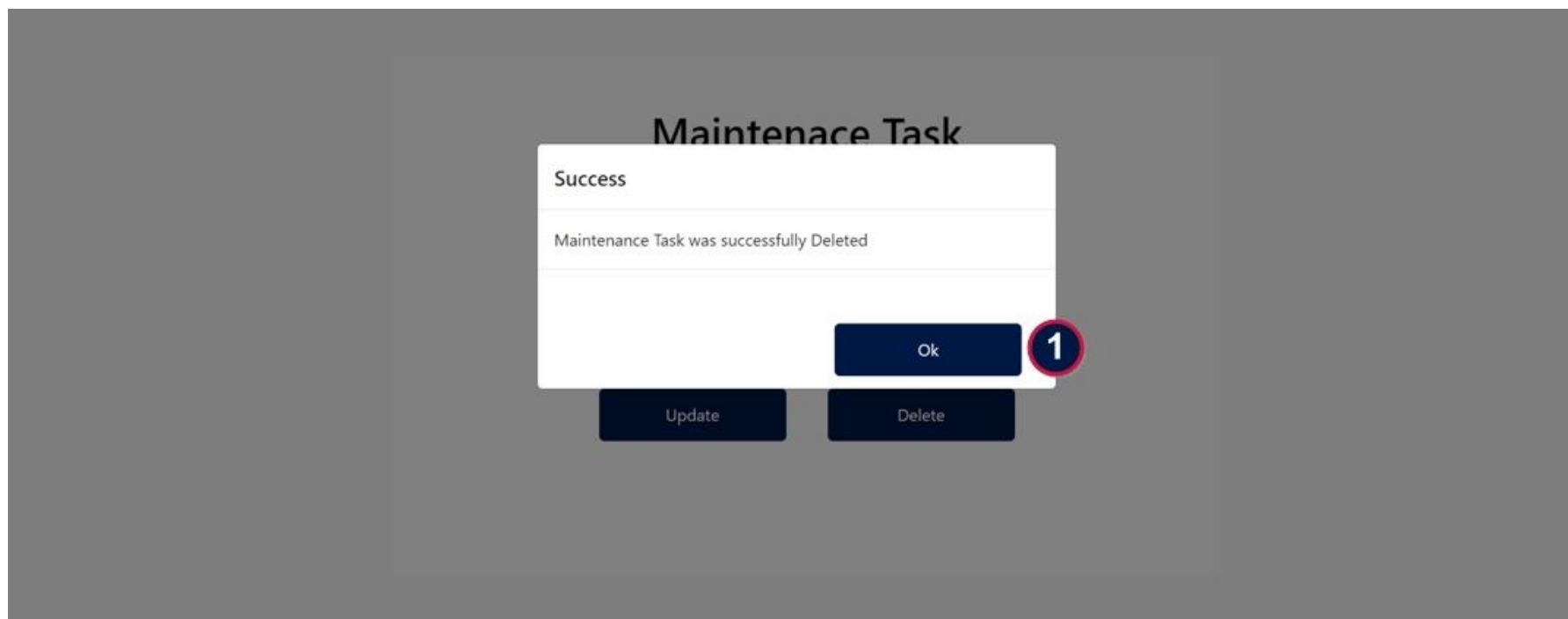


Figure 157 Maintenance Task was Successfully Deleted Screen

Number	Item	Description
1	Button	Redirects the Super Administrator back to the Maintenance Task management screen



9 Sub-system 9: School

9.1 School Management Screen



Figure 158 School Management NavBar

Number	Item	Description
1	Dropdown Menu Item	Allows the Super Administrator to navigate to the School Management Screen.

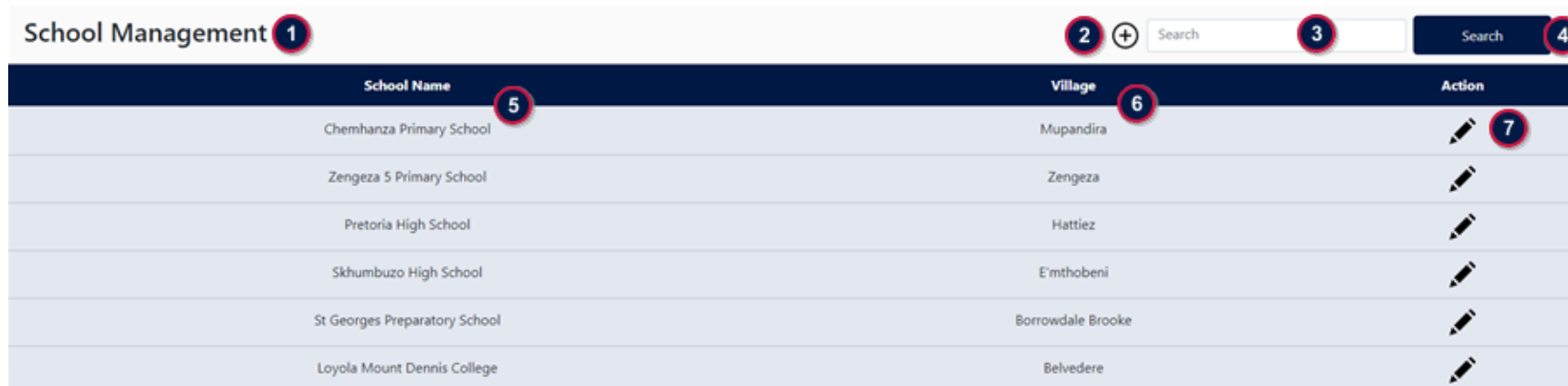


Figure 159 School Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Button	Redirects the Super Administrator to the Create School screen
3	Textbox	The Super Administrator can enter in the School's name to be searched
4	Button	Finds the School with the specified details and displays them
5	Table column	Displays all the School names in the system



6	Table column	Displays all the School corresponding Villages in the system
7	Button	Redirects the Super Administrator to the View School screen



9.2 Create School Screen

The screenshot shows a form titled "1 School" with the following fields and callouts:

- 2 School Name: Mt Pleasant Primary (3)
- 4 School Email: mtp@prim.com (5)
- 6 School Telephone: +2721569874 (7)
- 8 Country: Suid Afrika (9)
- 10 Province: West (11)
- 12 City: Kitwe (13)
- 14 Suburb: Tukkiezwerf (15)
- 16 Village: Hatfieldsz (17)
- 18 Create School button (19)
- Cancel button

Figure 160 Create School Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the School
3	Textbox	Allows the Super Administrator to enter a School Name
4	Label	Displays the Email address of the School
5	Textbox	Allows the Super Administrator to enter an Email Address
6	Label	Displays the Telephone of the School
7	Textbox	Allows the Super Administrator to enter the School Telephone
8	Label	Displays the Country of the School
9	Dropdown	Allows the Super Administrator to select a Country
10	Label	Displays the Province of the School
11	Dropdown	Allows the Super Administrator to select a Province
12	Label	Displays the City of the School
13	Dropdown	Allows the Super Administrator to select a City
14	Label	Displays the Suburb of the School
15	Dropdown	Allows the Super Administrator to select a Suburb
16	Label	Displays the Village of the School
17	Dropdown	Allows the Super Administrator to select a Village
18	Button	Displays the Confirmation dialog



19	Button	Redirects the Super Administrator to the School Management screen
----	--------	---

School

School Name:

Please enter a Name

School Email:

School Telephone:

Country:

Province:

City:

Suburb:

Village:

Error! There was a problem creating a new School. Please try again

Figure 161 Create School Error Screen



Number	Item	Description
1	Textbox	This textbox has been left empty on purpose
2	Label	Each entry has a Label that will tell the Super Administrator that the field has not been filled in
3	Label	This Label is displayed when there is an error continuing to the next screen



School

School Name:
Mt Pleasant Primary

School Email:

Confirmation 1

Are you sure you want to add this School? 2

3 Yes 4 No

West

City:
Kitwe

Suburbs:
Tukkiezwerv

Village:
Hatfieldsz

Create School Cancel

Figure 162 Create School Confirmation Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Creates a new School with the details from the School screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous School screen

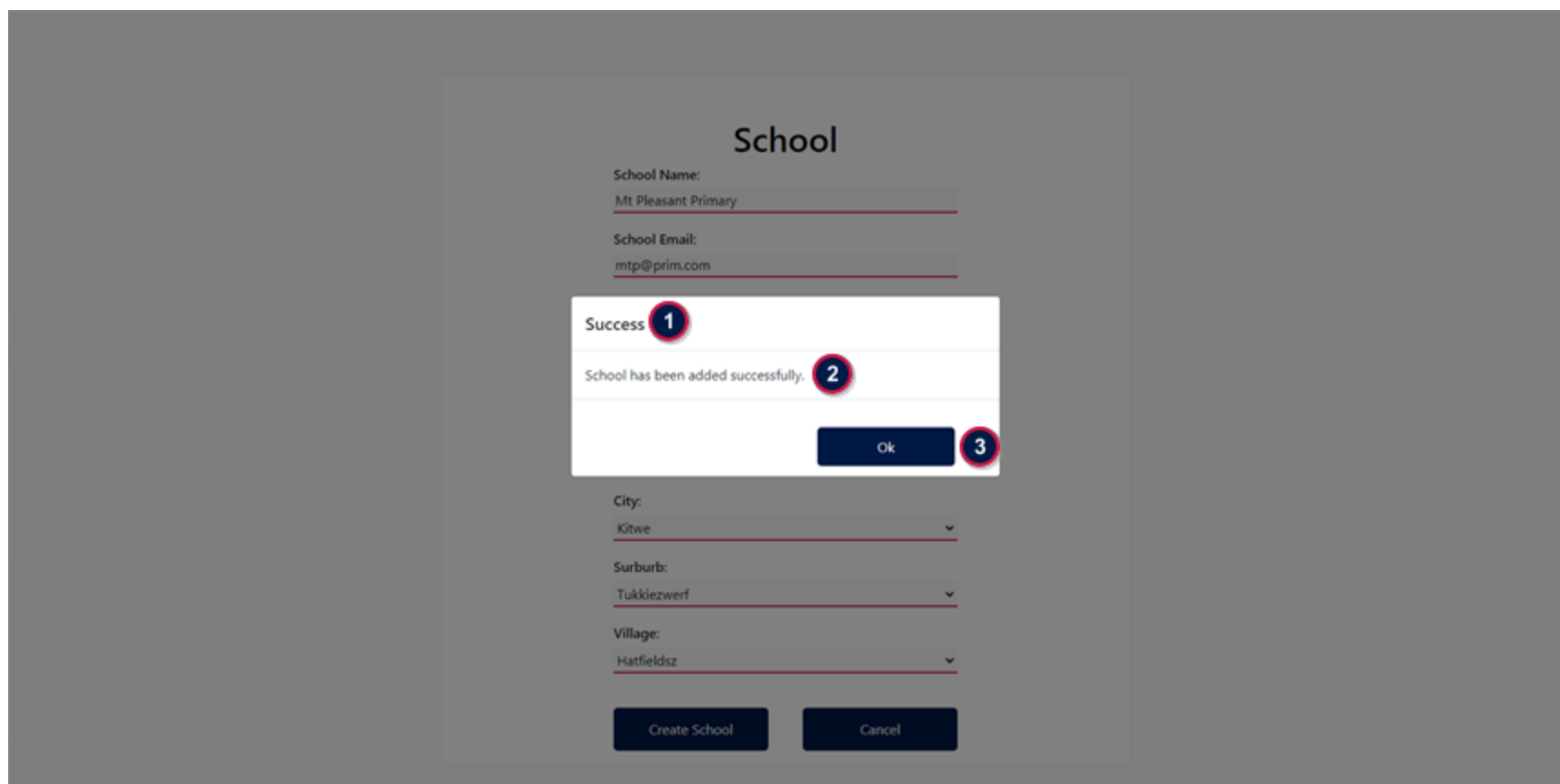


Figure 163 School Successfully Created Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the School Management screen



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9.3 View School Screen

The screenshot displays the 'View School' screen with the following elements and callouts:

- 1**: School title
- 2**: School Name label
- 3**: School Name input field (containing 'Mt Pleasant Primary')
- 4**: School Email label
- 5**: School Email input field (containing 'mtp@prim.com')
- 6**: School Telephone label
- 7**: School Telephone input field (containing '+2721569874')
- 8**: Country label
- 9**: Country dropdown menu (containing 'Suid Afrika')
- 10**: Province label
- 11**: Province dropdown menu (containing 'South')
- 12**: City label
- 13**: City dropdown menu (containing 'Bindura')
- 14**: Suburb label
- 15**: Suburb dropdown menu (containing 'Borrowdale')
- 16**: Village label
- 17**: Village dropdown menu (containing 'Chi-town')
- 18**: Update button
- 19**: Delete button

Figure 164 View School Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Name of the selected School
3	Textbox	Allows the Super Administrator to edit the School Name
4	Label	Displays the Email address of the selected School
5	Textbox	Allows the Super Administrator to edit the Email Address
6	Label	Displays the Telephone of the selected School
7	Textbox	Allows the Super Administrator to edit the School Telephone
8	Label	Displays the Country of the selected School
9	Dropdown	Allows the Super Administrator to edit the Country
10	Label	Displays the Province of the selected School
11	Dropdown	Allows the Super Administrator to edit the Province
12	Label	Displays the City of the selected School
13	Dropdown	Allows the Super Administrator to edit the City
14	Label	Displays the Suburb of the selected School
15	Dropdown	Allows the Super Administrator to edit the Suburb
16	Label	Displays the Village of the selected School
17	Dropdown	Allows the Super Administrator to edit the Village
18	Button	Displays the Update Confirmation dialog



19	Button	Displays the Delete Confirmation dialog
----	--------	---

School

School Name:
Mt Pleasant Primary

School Email:

Confirmation 1

Are you sure you want to update this School? 2

3 Yes 4 No

South: ▾

City:
Bindura ▾

Suburb:
Borinowdale ▾

Village:
Chi-town ▾

Update Delete

Figure 165 Update School Confirmation Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Updates the School with the details from the School screen and saves the details to the database
4	Button	No button Redirects the Super Administrator to the previous School screen

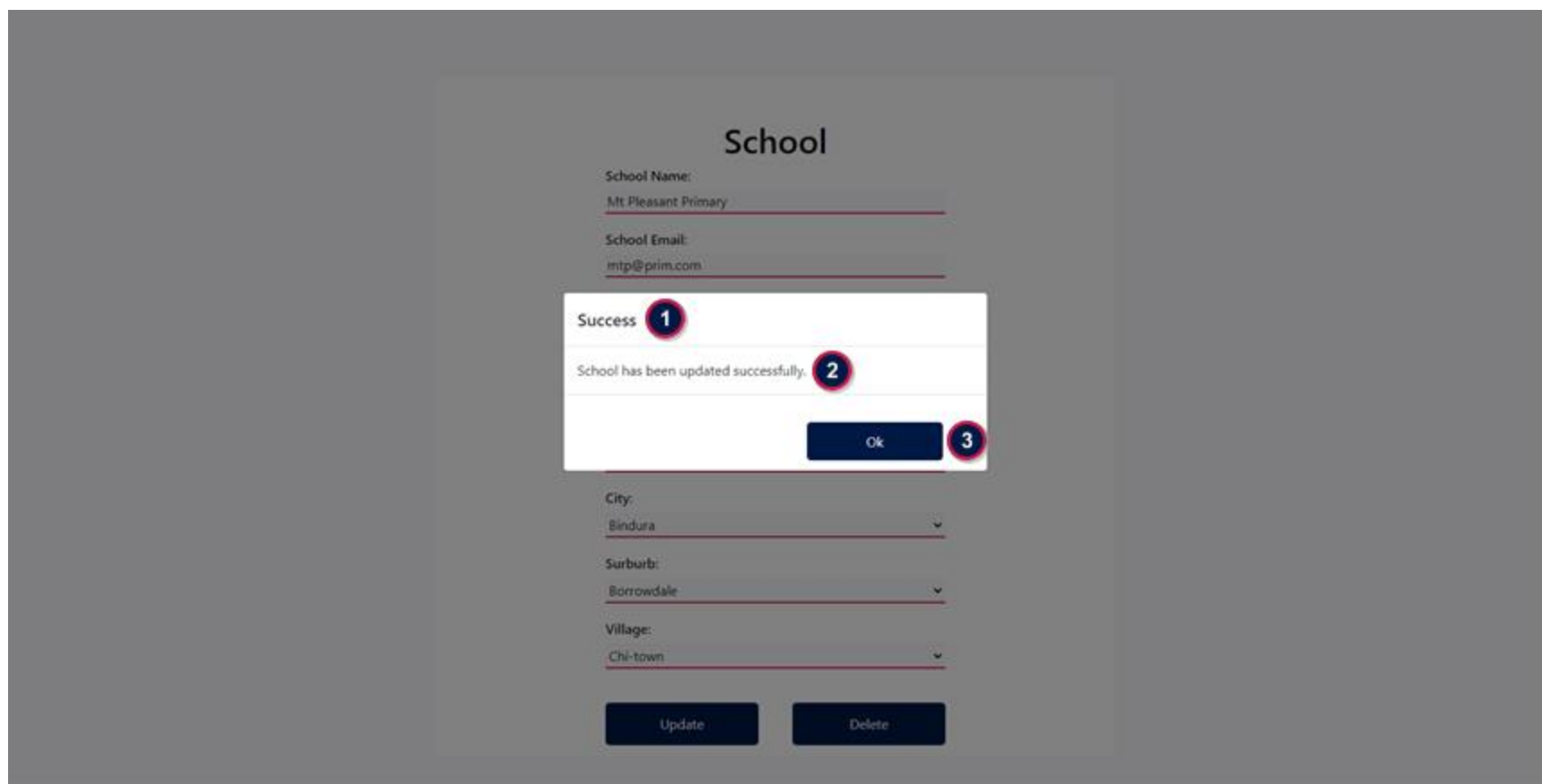


Figure 166 School Successfully Updated Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the School Management screen



School

School Name:
Mt Pleasant Primary

School Email:
[Redacted]

Confirmation 1

Are you sure you want to delete this School? 2

3 Yes 4 No

South

City:
Bindura

Suburb:
Borrowdale

Village:
Chi-town

Update Delete

Figure 167 Delete School Confirmation Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Removes the School and its details from the database
4	Button	No button Redirects the Super Administrator to the previous School screen

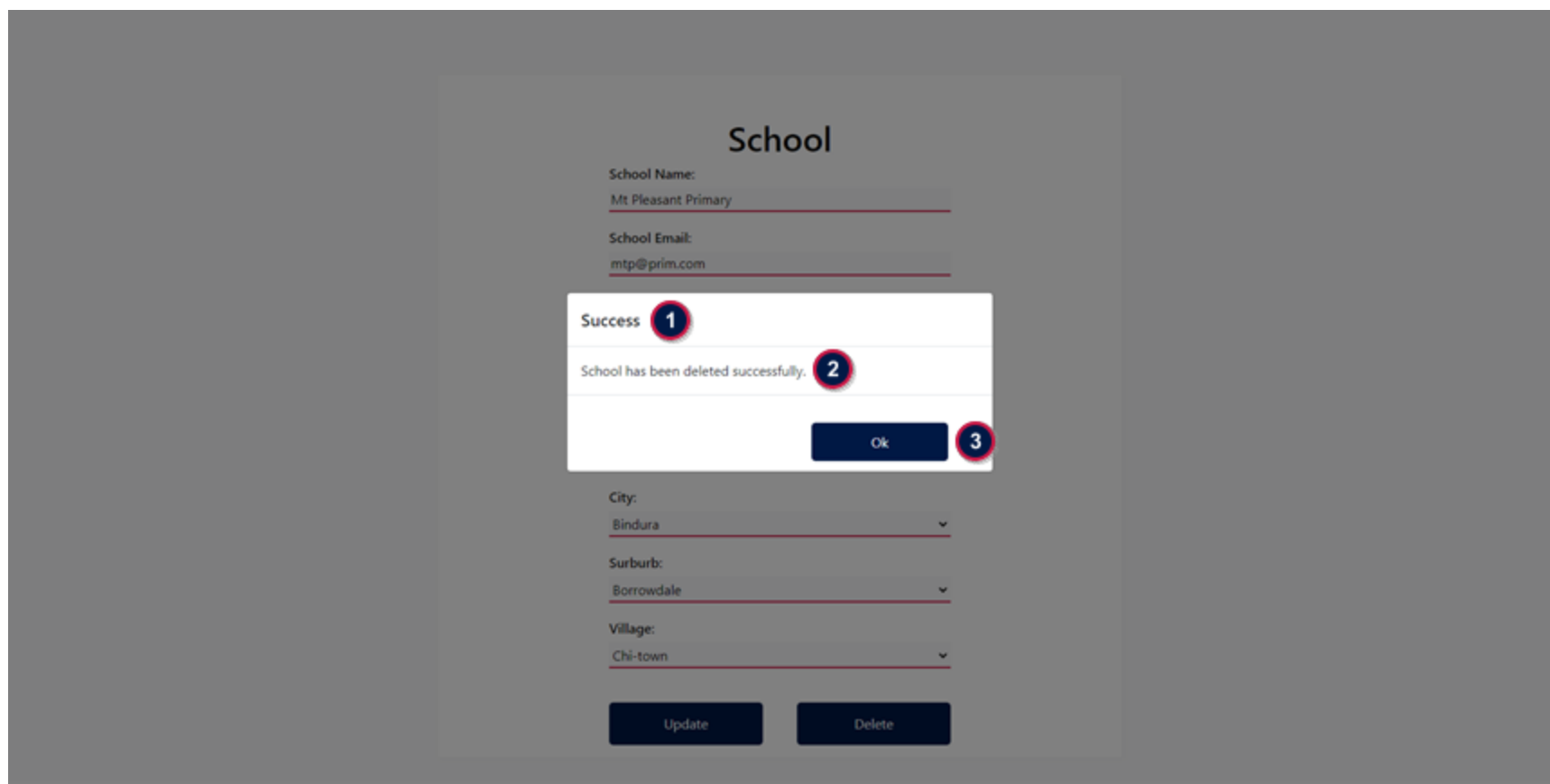


Figure 168 School Deleted Successfully Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Super Administrator back to the School Management screen



10 Sub-System 10: Job

10.1 QR Scan Screen

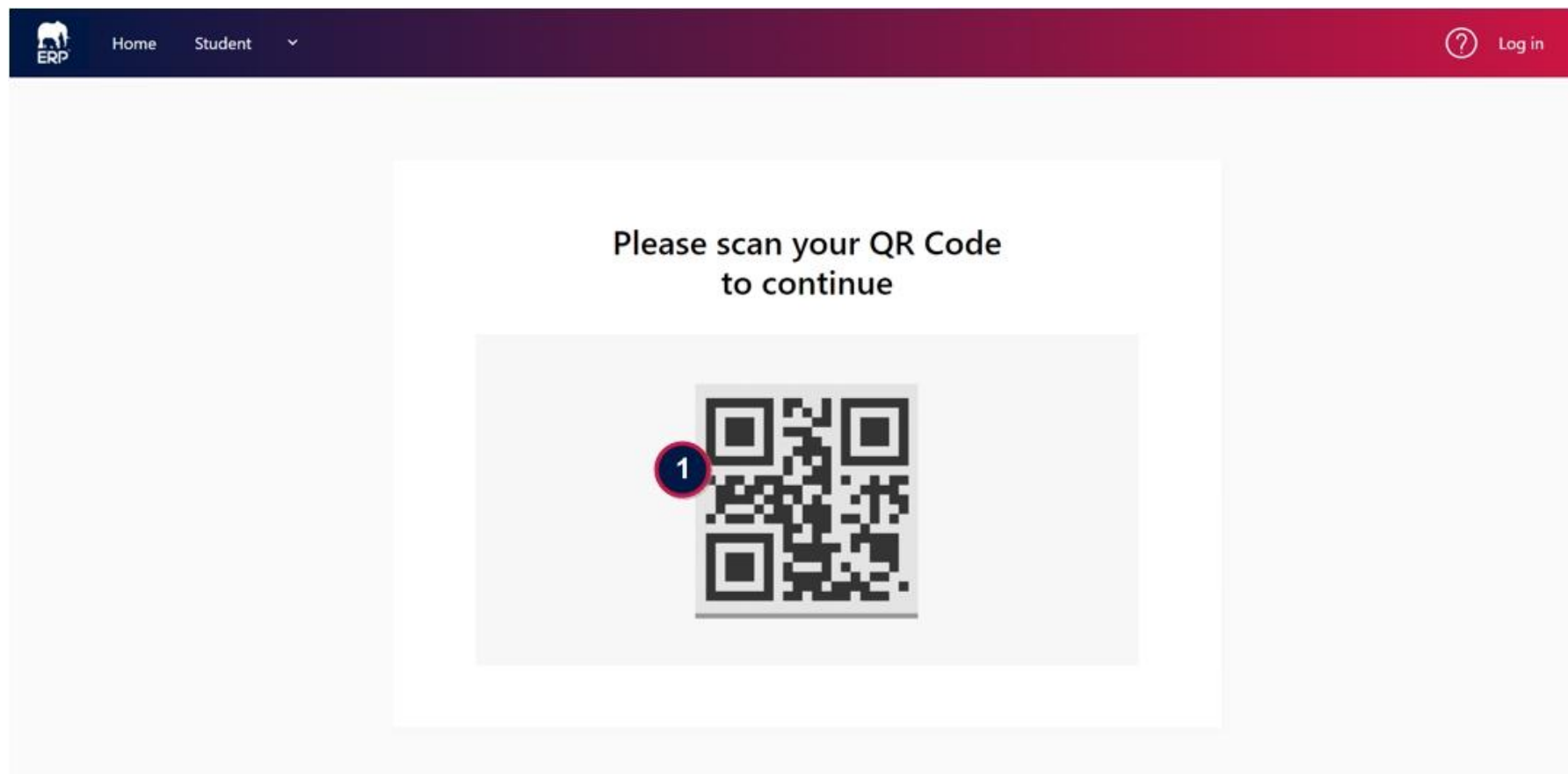


Figure 169 QR Scan Screen

Number	Item	Description
1	Image	Demonstrates what needs to be done for the user

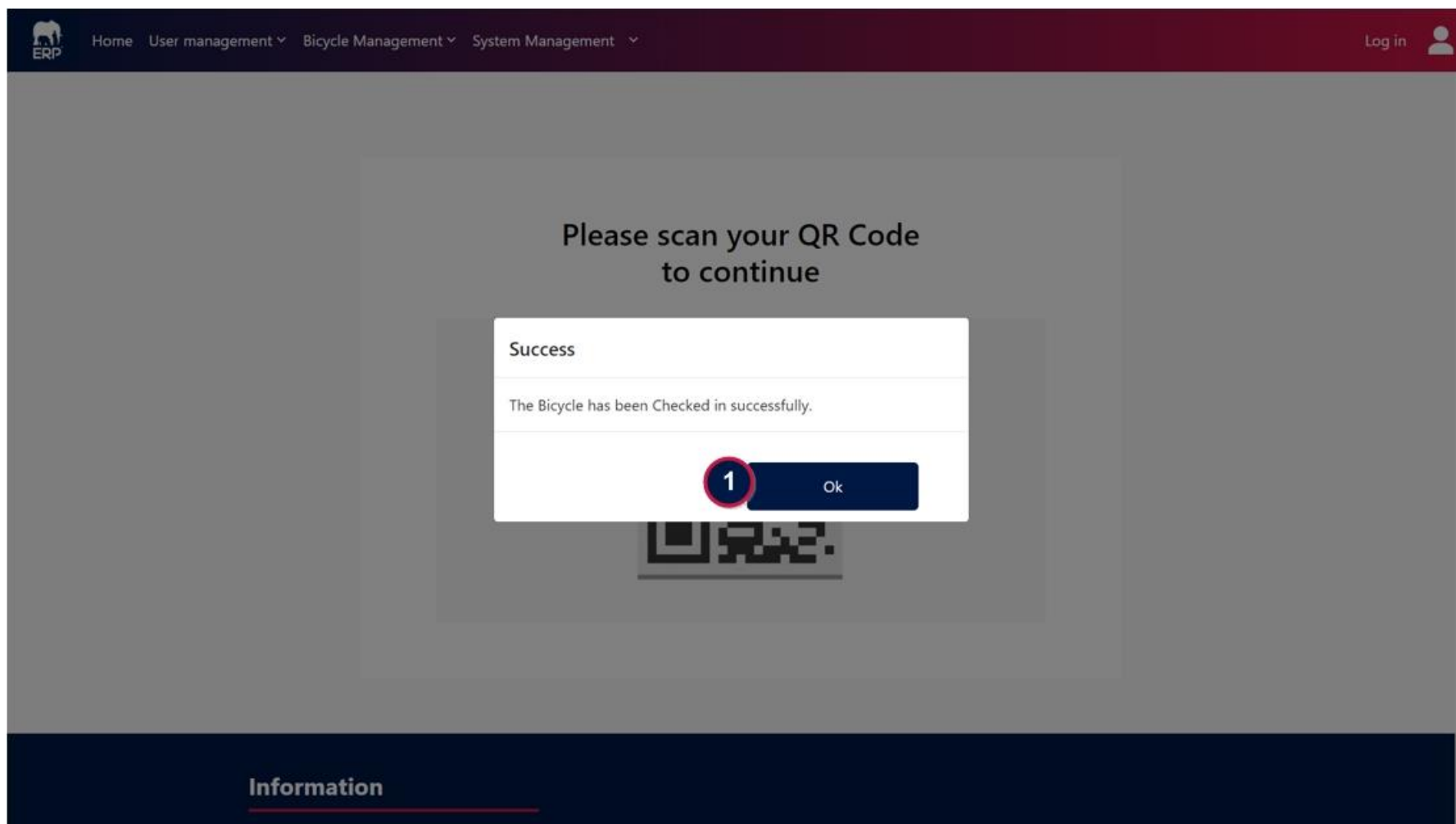


Figure 170 Successful Check-In Screen

Number	Item	Description
1	Button	Redirects the Mechanic back to the Job screen



10.2 Bicycle Blueprint Screen

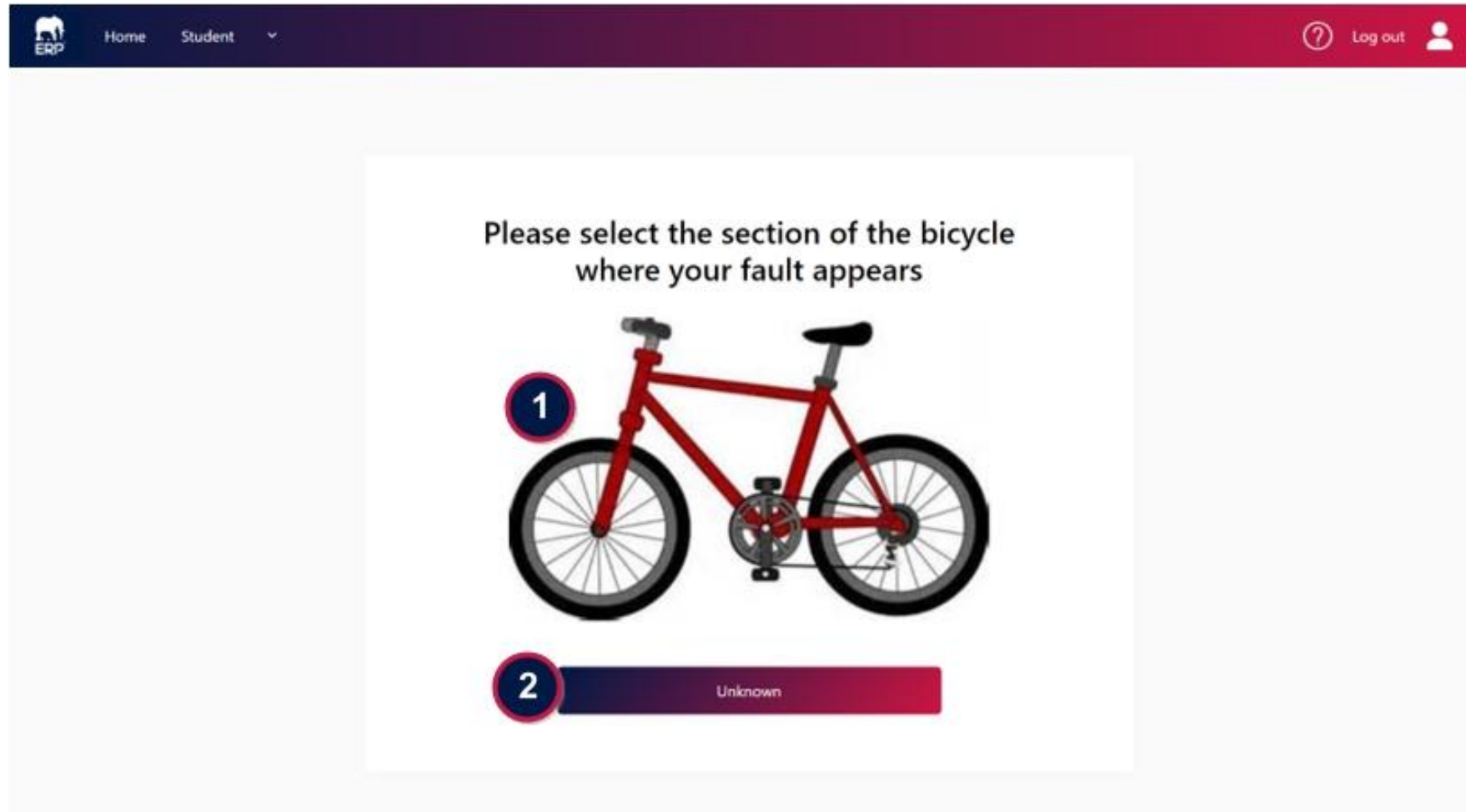


Figure 171 Bicycle Blueprint Screen



Number	Item	Description
1	Image	Allows the user to click on a section of the bicycle, Displaying the Section Blueprint Screen
2	Button	Displays the Unknown Fault Dialog



Figure 172 Unknown Fault Screen

Number	Item	Description
1	Textbox	Allows the user to enter any additional information about the fault.



2	Button	Allows the user to Submit a Fault, Displaying the Report List Screen
3	Button	Redirects the user back to the previous Bicycle Blueprint screen



10.3Section Blueprint Screen

Please select the Part of the Front Wheel where your fault appears

1	2 Rim	Bearing
Spoke	Lacing	3 Unknown

Figure 173 Section Blueprint Screen



Number	Item	Description
1	Image	Allows the User to Select a Part from the Section, Displaying the Part Faults Screen
2	Label	Describes the Image
3	Button	Displays the Unknown Fault Dialog



10.4Part Faults Screen

Home Student

?

Log out

Please select the fault that appears on the Rim

1

2

3

Dented Rim

Broken Rim

Bent Rim

Unknown

Figure 174 Part Faults Screen



Number	Item	Description
1	Button	Allows the User to Select a Fault for the Part, Displaying the Confirmation Dialog
2	Label	Describes the Image
3	Button	Displays the Unknown Fault Dialog

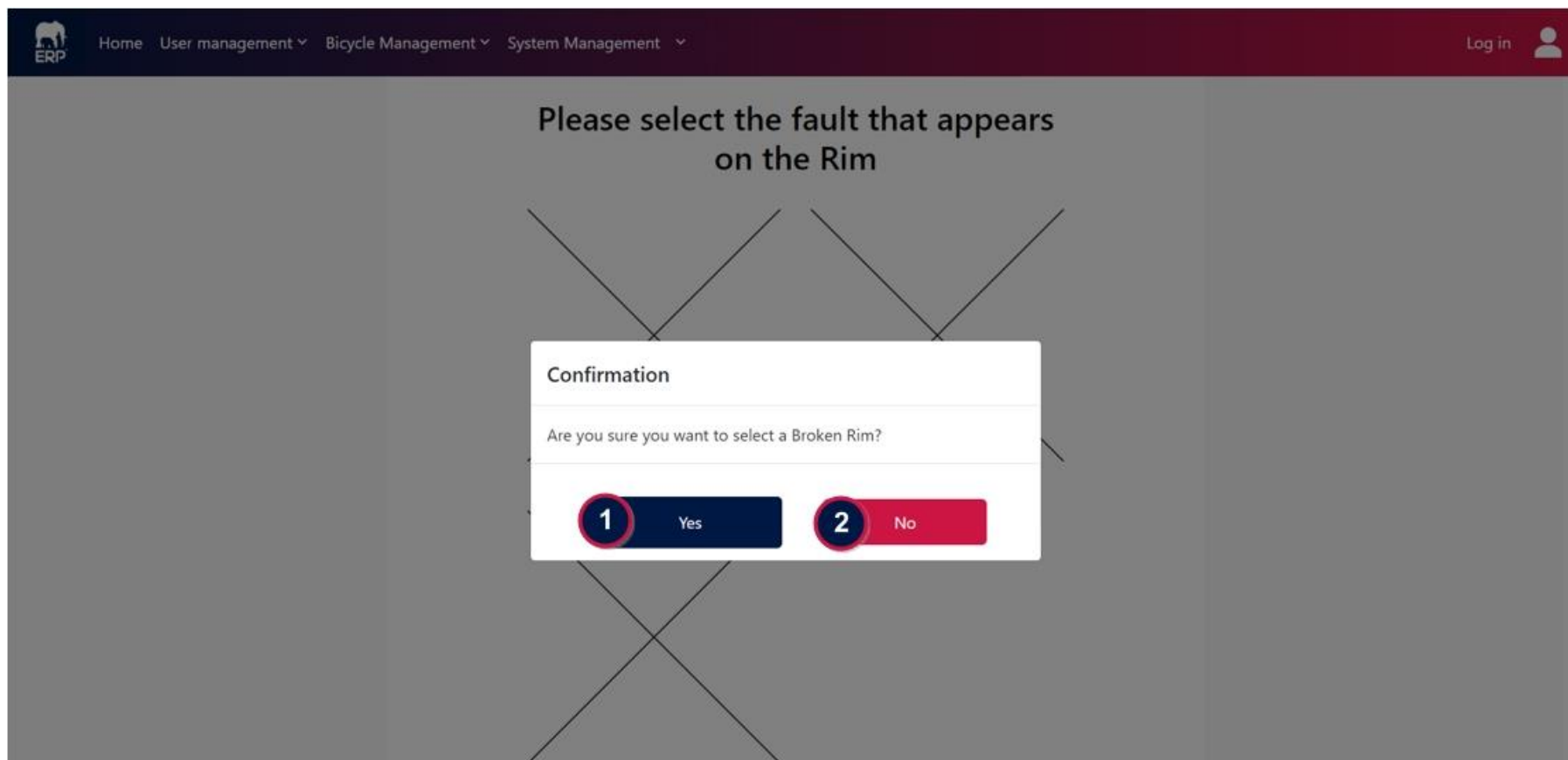


Figure 175 Part Faults Confirmation Screen

Number	Item	Description
1	Button	Displays the Success Dialog
2	Button	Redirects the user back to the previous Part Fault screen

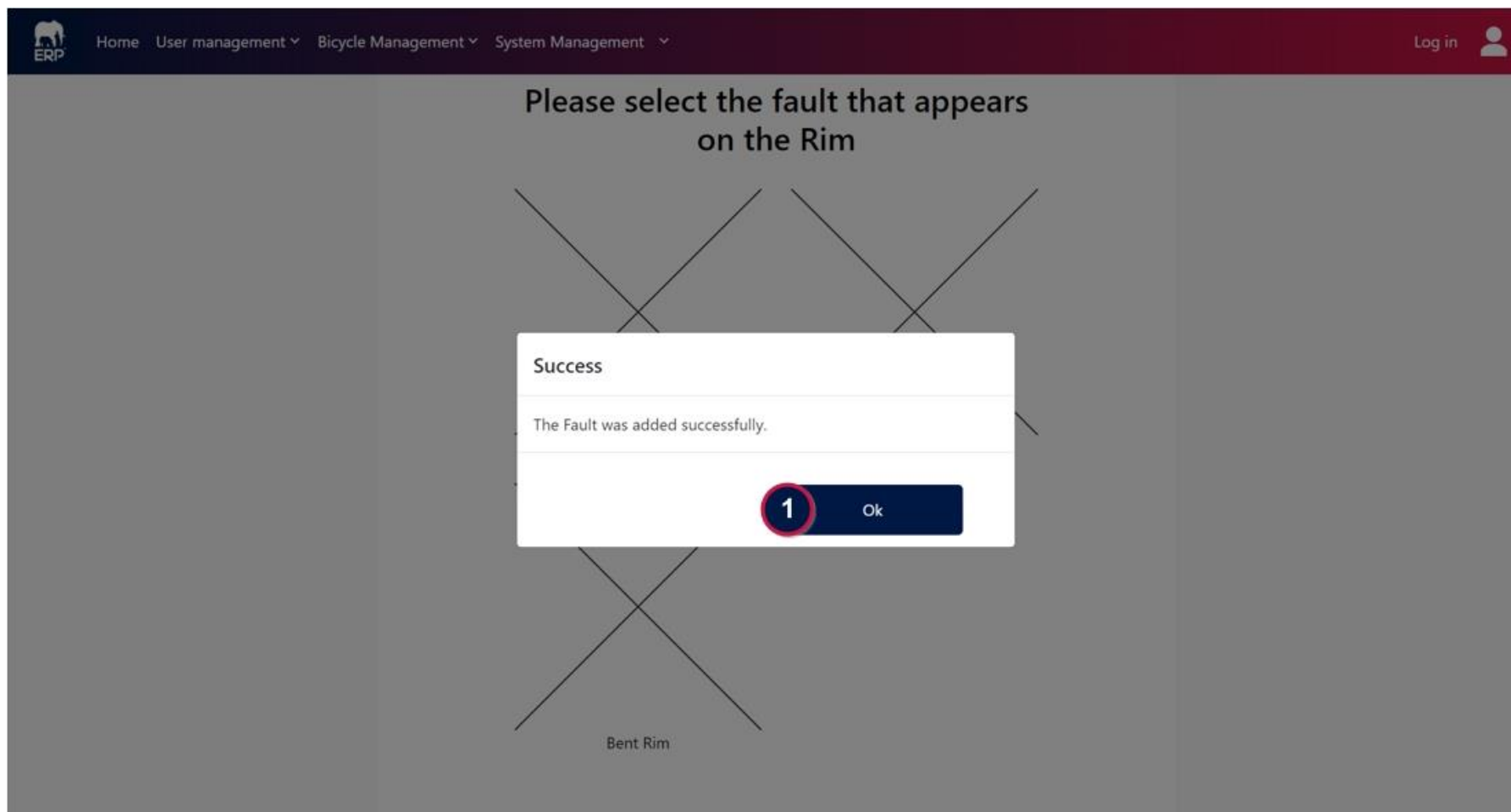


Figure 176 Successfully Added Fault Screen

Number	Item	Description
1	Button	Redirects the user to the Report List screen



10.5 Report List Screen

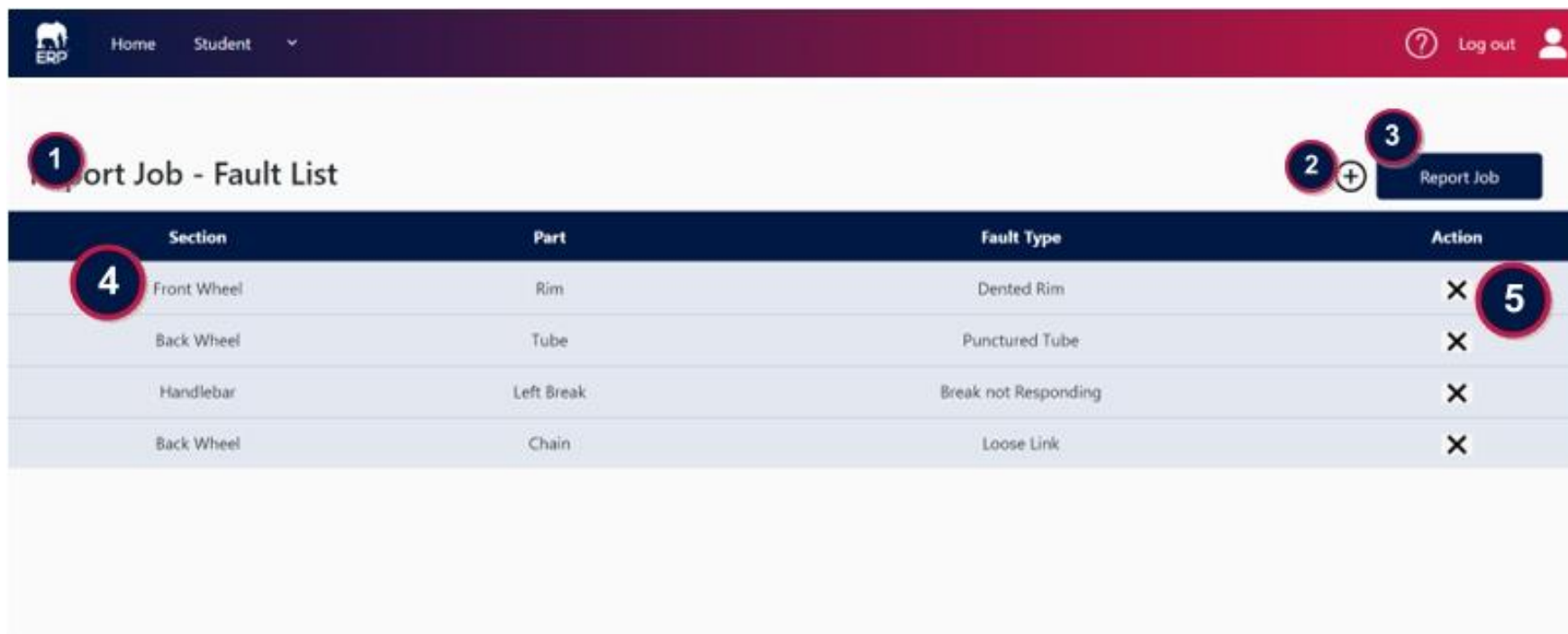


Figure 177 Report List Screen

Number	Item	Description
1	Label	Displays the screen heading with the date
2	Button	Redirects the User to the Bicycle Blueprint screen
3	Button	Displays the Success Dialog
4	Table	Table to show all the Fault's that have been Reported
5	Button	Removes an Entry from the Table



The screenshot shows the 'Report Job - Fault List' interface. A success message dialog is centered on the screen, stating 'Success' and 'The Faults have been reported successfully.' with an 'Ok' button. The background table lists the following data:

Section	Part	Fault Type	Action
Front Wheel	Rim	Dented Rim	X
Back Wheel	Tire	Punctured Tube	X
Handlebar	Left	Swinging	X
Back Wheel	C		X

At the bottom, there is an 'Information' section with links for 'Contact VVS Team', 'About', 'General Help', and 'FAQs'. Logos for 'EPI·USE' and 'ERP' are also visible.

Figure 178 Report List successfully Reported Screen

Number	Item	Description
1	Button	Redirects the User back to the Homepage screen



10.6 Fix Fault Screen

Figure 179 Fix Fault Screen

Number	Item	Description
1	Radio Button	Allows the Mechanic to select the tasks he performed
2	Label	Describes the Possible Tasks that can be performed
3	Button	Returns to the Job List Screen



11 Sub-System 11: Reporting

11.1 Mechanic Schedule Report

Mechanic Schedule Report 1					
Start Date:01/02/2020 2					
End Date:08/02/2020 3					
Download Report 4					
Job Code 5	Bicycle Code 6	Student Name 7	Job Description 8	Student Contact 9	Date Scheduled 10
OC-77	10111	Johnson Sonny	Clean brakes	(+27) 84 171 1025	Monday 07/02/2020
BR-26	20512	Johnson Sonny	Oil Chain	(+27) 61 923 4567	Monday 14/02/2020
WW-03	13632	Peter Packerd	Tyre Checkup	(+27) 64 369 7751	Monday 21/02/2020
FB-96	05698	Freedoms Mayson	Handle Bar re alignment	(+27) 82 112 7852	Tuesday 15/02/2020
HB-51	19756	Matthew Matt	Missing Rear Brakes	(+27) 61 663 8231	Tuesday 22/02/2020

Figure 180 Mechanic Schedule Report Screen



Number	Item	Description
1	Label	Displays the Heading of the report on the screen
2	Label	Displays the Start Date of the period for the automatically generated Mechanic Schedule.
3	Label	Displays the End Date of the period for the automatically generated Mechanic Schedule.
4	Button	Initiates a download operation and saves the PDF file of the schedule in the Mechanics device.
5	Table Column	Displays the Job Identifier in the form of a Job Code/ID within the selected criteria
6	Table Column	Displays the Bicycle Identifier in the form of a Bicycle Code/ID within the selected criteria
7	Table Column	Displays the Student Names of the user of the bicycle within the selected criteria
8	Table Column	Displays the Description of the job whose Job Code/ID falls within the selected criteria
9	Table Column	Displays the Student Contact Number of the user of the bicycle within the selected criteria
10	Table Column	Displays the Scheduled Date for the job whose Job Code/ID falls within the selected criteria

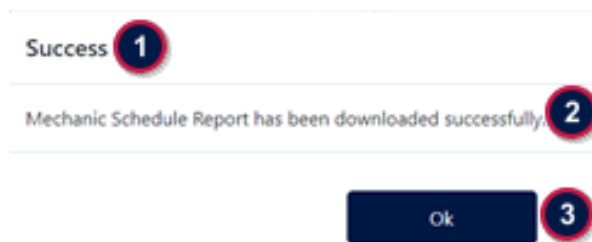


Figure 181 Mechanic Schedule Report Download Success

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Mechanic Schedule screen



11.2 Mechanic Schedule Requirements Report



Figure 182 Mechanic Schedule Requirements Report Screen



Number	Item	Description
1	Label	Displays the Heading of the report on the screen
2	Label	Displays the Start Date of the period for the automatically generated Mechanic Schedule.
3	Label	Displays the End Date of the period for the automatically generated Mechanic Schedule.
4	Button	Initiates a download operation and saves the PDF file of the schedule in the Mechanics device.
5	Table Column	Displays the Job Identifier in the form of a Job Code/ID within the selected criteria
6	Table Column	Displays the Bicycle Identifier in the form of a Bicycle Code/ID within the selected criteria
7	Table Column	Displays the Student Names of the user of the bicycle within the selected criteria
8	Table Column	Displays the Description of the job whose Job Code/ID falls within the selected criteria
9	Table Column	Displays the Parts Needed for the job whose Job Code/ID falls within the selected criteria
10	Table Column	Displays the Scheduled Date for the job whose Job Code/ID falls within the selected criteria
11	Sub Table Column	Displays the breakdown filter of all the Parts Needed
12	Sub Table Column	Displays the quantity of the filtered Parts Needed

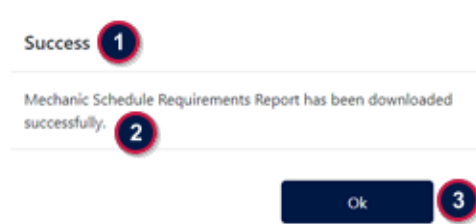


Figure 183 Mechanic Schedule Requirements Report download Success Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Mechanic Schedule Requirements screen



11.3 Generate Student Report

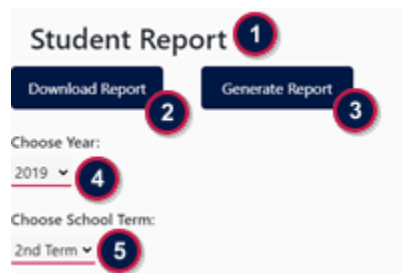


Figure 184 Student Report Screen Part 1

Number	Item	Description
1	Label	Displays the Heading of the report to be generated
2	Button	On click, initiates a download operation and saves the PDF file of the report on the device
3	Button	On click, initiates the generation of the report based on the selected criteria and displays it
4	Dropdown	Allows the user to select the Year to which they want to generate a report for
5	Dropdown	Allows the user to select the School Term to which they want to generate a report for



Figure 185 Student Report Screen Part 2



Number	Item	Description
1	Label	Displays the Heading of the Chart on display
2	Legend icon	Indicates the Legend of the Pass Rate Dataset
3	Legend icon	Indicates the Legend of the Attendance Dataset
4	Graph Y-axis	Indicates the Y-axis values ranging from 0-100, indicating Percentage values.
5	Graph X-axis	Indicates the X-axis values indicating the school names with the different Datasets



Martinsville Primary School - Total Students: 5

Student Name	Bicycle Code	Age	Attendance %	Average Mark %
Johnson Sonny	10111	8	45	67
Ted Manga	20512	9	56	98
Peter Packerd	13632	11	75	65
Freedoms Mayson	05698	10	68	76
Matthew Matt	19756	12	95	52
68% - Average School Attendance			78% - Overall School Average	

Smithsonians High School - Total Students: 3

Student Name	Bicycle Code	Age	Attendance %	Average Mark %
Jack Nxumalo	12344	14	45	67
Patrick Eeks	02468	16	56	98
Patricia Minnie	65935	14	75	65
61% - Average School Attendance			88% - Overall School Average	

Makadei High School - Total Students: 3

Student Name	Bicycle Code	Age	Attendance %	Average Mark %
Patrick Eeks	23478	14	45	67
Kevin Hartford	36254	16	56	98
Ellen Nkosi	00324	14	56	98
Trevor Ark	10362	15	75	65
59% - Average School Attendance			72% - Overall School Average	

Figure 186 Student Report Screen Part 3



Number	Item	Description
1	Table Column	Displays the Student Names of the students within the selected criteria
2	Table Column	Displays the Bicycle Identifier in the form of a Bicycle Code/ID within the selected criteria
3	Table Column	Displays the Age of the students within the selected criteria
4	Table Column	Displays the Attendance Percentage of the students in the Schools within the selected criteria
5	Table Column	Displays the Average Mark per student in the Schools within the selected criteria
6	Control Break	Displays the running average of Attendance of that specific school within the selected criteria
7	Control Break	Displays the running average of Marks for that specific school within the selected criteria
8	Control Break	Displays the Name of that specific school within the selected criteria
9	Control Break	Displays the total count of students in that specific school within the selected criteria

Overall Pass Rate: 75% **1**

Overall School Attendance: 77% **2**

Figure 187 Student Report Screen Part 4

Number	Item	Description
1	Running Average	Displays the running average of all school's student mark averages within the selected criteria
2	Running Average	Displays the running average of all school's student attendances within the selected criteria

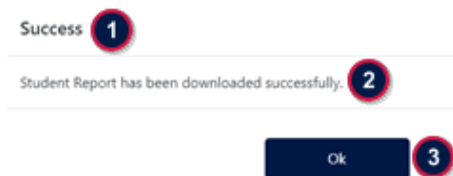


Figure 188 Student Report has been successfully downloaded Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Student Report screen



11.4 Bicycle History Report

Bicycle History Report

[Download Report](#)[Generate Report](#)

Choose School:
Pretoria High School

Choose Job Type:
Maintenance

Bicycle Code: 10111 | Status - Assigned

Job Code	Student Name	Job Description	Date Completed
OC-77	Johnson Sonny	Oil Chain	Monday 21/02/2016
BR-26	Ted Manga	Clean brakes	Monday 21/02/2017
WW-03	Peter Packerd	Tyre check up	Wednesday 23/02/2018
FB-96	Freedoms Mayson	Bike frame check up	Thursday 24/02/2019
HB-51	Matthew Matt	Handle Bar re-alignment	Tuesday 29/02/2020

Total Jobs: 5 | Date Added: 05/06/2015

Bicycle Code: 27161 | Status - Assigned

Job Code	Student Name	Maintenance Job	Date Completed
OC-03	Johnson Sonny	Oil Chain	Monday 21/02/2020
WW-77	Ted Manga	Tyre check up	Wednesday 23/02/2018
FB-04	Freedoms Mayson	Bike frame check up	Thursday 24/02/2019
HB-15	Matthew Matt	Handle Bar re-alignment	Tuesday 29/02/2020

Total Jobs: 4 | Date Added: 22/09/2017

Figure 189 Bicycle History Report Screen Part 1



Number	Item	Description
1	Label	Displays the Heading of the report to be generated
2	Button	On click, initiates a download operation and saves the PDF file of the report on the device
3	Button	On click, initiates the generation of the report based on the selected criteria and displays it
4	Dropdown	Allows the user to select the School to which they want to generate a report for
5	Dropdown	Allows the user to select the Job Type to which they want to generate a report for
6	Table Column	Displays the Job Identifier in the form of a Job Code/ID within the selected criteria
7	Table Column	Displays the Student Names of the students within the selected criteria
8	Table Column	Displays the Description of the job whose Job Code/ID falls within the selected criteria
9	Table Column	Displays the Completion Date for the job whose Job Code/ID falls within the selected criteria
10	Control Break	Displays the Bicycle Identifier of that specific bicycle within the selected criteria
11	Control Break	Displays the Status of that specific bicycle within the selected criteria
12	Control Break	Displays the total count of jobs done on that specific bicycle within the selected criteria
13	Control Break	Displays the Date on which the specific bicycle within the selected criteria was added

Total Maintenance Jobs: 9 **1**

Figure 190 Bicycle History Report Screen Part 2

Number	Item	Description
1	Running Total	Displays the running total of all jobs across all bicycles within the selected criteria

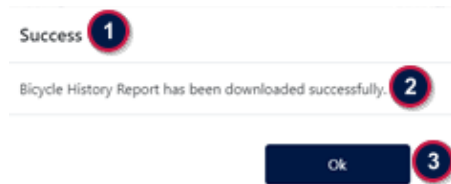


Figure 191 Bicycle History Report Downloaded Successfully Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Bicycle History Report screen



11.5 Log Report

Log Report 1

Download Report 2 Generate Report 3 Start Date: 21/02/2020 4 End Date: 22/02/2020 5

Antenna Serial Number: 15 | Status - Working

Tag Serial Number 6	Bicycle Code 7	Student Name 8	Time 9	Date 10
5656598-E58	10111	Johnson Sonny	08:56:13	Monday 21/02/2020
8623598-E60	20512	Ted Manga	09:06:16	Monday 21/02/2020
5656598-E56	13632	Peter Packard	09:15:51	Monday 21/02/2020
5566598-E89	05698	Freedoms Mayson	08:15:45	Tuesday 22/02/2020
5656598-E85	19756	Matthew Matt	08:36:56	Tuesday 22/02/2020

Total Tags: 5 | Coordinates: 25.7546° S, 28.2327° E

Antenna Serial Number: 7 | Status - Working

Tag Serial Number	Bicycle Code	Student Name	Time	Date
5656598-E58	10111	Johnson Sonny	13:56:23	Monday 21/02/2020
8623598-E60	20512	Ted Manga	13:59:16	Monday 21/02/2020
5566598-E89	05698	Freedoms Mayson	14:15:45	Tuesday 22/02/2020
5656598-E85	19756	Matthew Matt	15:36:56	Tuesday 22/02/2020

Total Tags: 4 | Coordinates: 15.9062° N, 38.9874° E

Total Tags: 9 15 13 14

Figure 192 Log Report Screen



Number	Item	Description
1	Label	Displays the Heading of the report to be generated
2	Button	On click, initiates a download operation and saves the PDF file of the report on the device
3	Button	On click, initiates the generation of the report based on the selected criteria and displays it
4	Date Picker	Allows the user to select the Start Date to which they want to generate a report for
5	Date Picker	Allows the user to select the End Date to which they want to generate a report for
6	Table Column	Displays the Tag Identifier in the form of a Tag Serial Numbers within the selected criteria
7	Table Column	Displays the Bicycle Identifier in the form of Bicycle Codes/IDs within the selected criteria
8	Table Column	Displays the Student Names of the students within the selected criteria
9	Table Column	Displays the Time for the Tag activity on an Antenna within the selected criteria
10	Table Column	Displays the Date for the Tag activity on an Antenna within the selected criteria
11	Control Break	Displays the Antenna Identifier of that specific antenna within the selected criteria
12	Control Break	Displays the Status of that specific antenna within the selected criteria
13	Control Break	Displays the total tag count with activity on that specific antenna within the selected criteria
14	Control Break	Displays the Coordinates of a specific antenna within the selected criteria was added
15	Running Total	Displays the running total of all tags across all antennas within the selected criteria

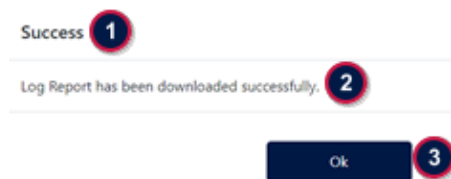


Figure 193 Log Report Successfully Downloaded Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Log Report screen



11.6 Parts Used Report

Parts Used Report

Download Report Generate Report Start Date: 01/02/2020 End Date: 29/02/2020

Job	Bicycle Code	Student Name	Description	Parts Used	Date Completed
Fault	10111	Johnson Sonny	Broken Chain	Chain	Monday 07/02/2020
Maintenance	20512	Johnson Sonny	Oil Chain	None	Monday 14/02/2020
Maintenance	13632	Peter Packard	Tyre Checkup	Front & Rear Tube	Monday 21/02/2020
Fault	05698	Freedoms Mayson	Twisted Handle bar	Handle Bar	Tuesday 15/02/2020
Fault	19756	Matthew Matt	Missing Rear Brakes	Rear Brakes	Tuesday 22/02/2020

Parts Used	Quantity
Chain	3
Front & Rear Tube	2
Handle Bar	1
Rear Brakes	9

Figure 194 Parts Used Report Screen



Number	Item	Description
1	Label	Displays the Heading of the report to be generated
2	Button	On click, initiates a download operation and saves the PDF file of the report on the device
3	Button	On click, initiates the generation of the report based on the selected criteria and displays it
4	Date Picker	Allows the user to select the Start Date to which they want to generate a report for
5	Date Picker	Allows the user to select the End Date to which they want to generate a report for
6	Table Column	Displays the Job Type within the selected criteria
7	Table Column	Displays the Bicycle Identifier in the form of a Bicycle Code/ID within the selected criteria
8	Table Column	Displays the Student Names of the user of the bicycle within the selected criteria
9	Table Column	Displays the Description of the job whose Job Code/ID falls within the selected criteria
10	Table Column	Displays the Parts Used for the job whose Job Code/ID falls within the selected criteria
11	Table Column	Displays the Completion Date for the job whose Job Code/ID falls within the selected criteria
12	Sub Table Column	Displays the breakdown filter of all the Parts Used
13	Sub Table Column	Displays the quantity of the filtered Parts Used

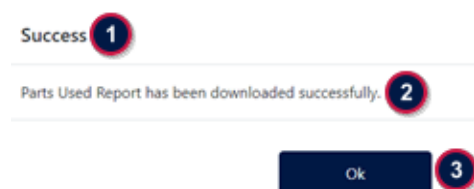


Figure 195 Parts Used Report Download Success Screen



Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Mechanic back to the Parts Used Report screen



12 Sub System 13: Administration

12.1 System Data Management Screen

The screenshot shows the 'System Data Management' interface. It includes a heading (1), a search input field (2), a search button (3), and a 'Backup System' button (4). Below these is a table with columns for 'BackupID' (5), 'Date Time' (6), and 'Action'. The table lists six backup records, each with a 'Restore' button (7).

BackupID	Date Time	Action
1	05/29/2019 13:50	Restore
2	05/29/2017 05:50	Restore
3	05/29/2015 05:50 AM	Restore
4	15/29/2015 05:50 AM	Restore
5	25/29/2015 05:50 AM	Restore
6	05/29/2015 05:50 AM	Restore

Figure 196 System Data Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The Administrator can enter in the Backup to be searched
3	Button	Finds the Backup with the specified details and displays them
4	Button	Backups the Current system data.
5	Table column	Displays all the Backup ID's in the system
6	Table column	Displays all the Date Time of the Backup's in the system
7	Button	Redirects the School Administrator to the Capture Student Mark screen



12.2 Backup System Screen

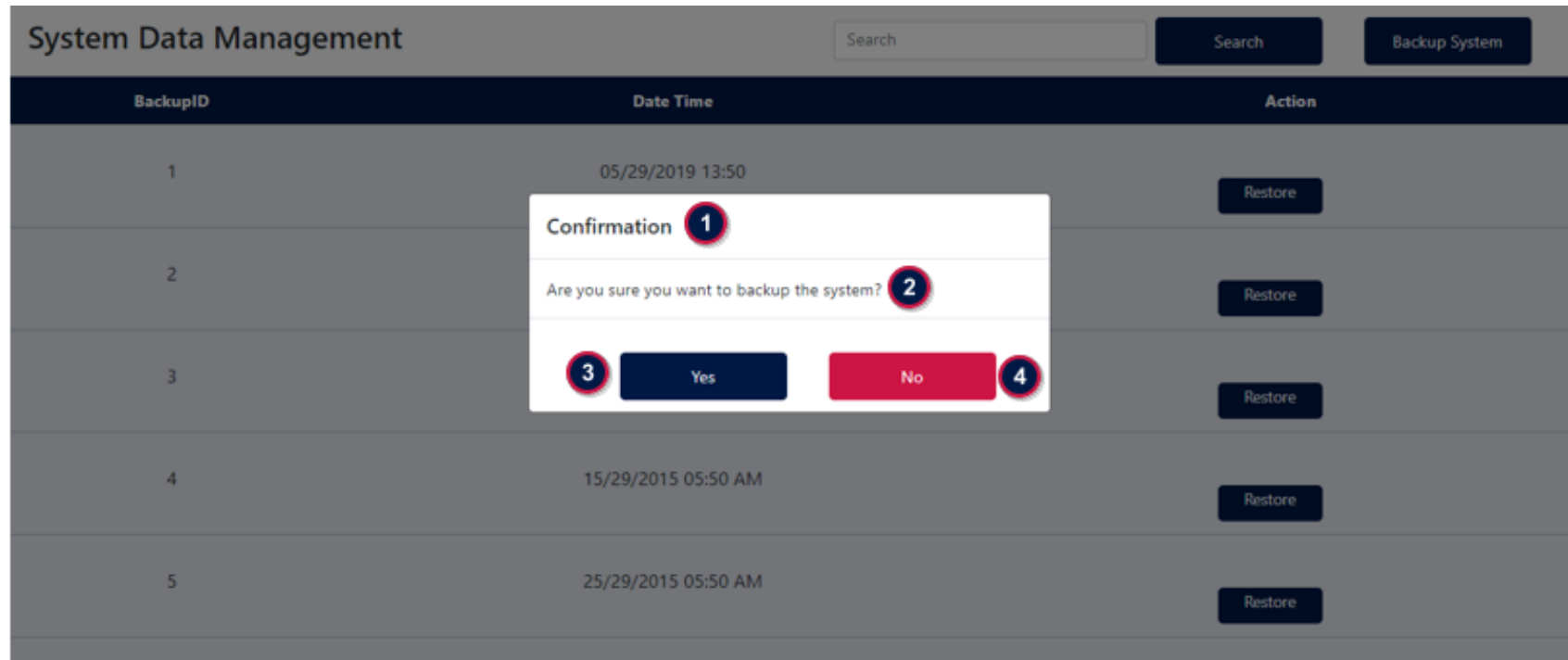


Figure 197 Backup System Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Backs up the Current System data and saves the details to the database
4	Button	No button Redirects the Administrator to the System Data Management screen

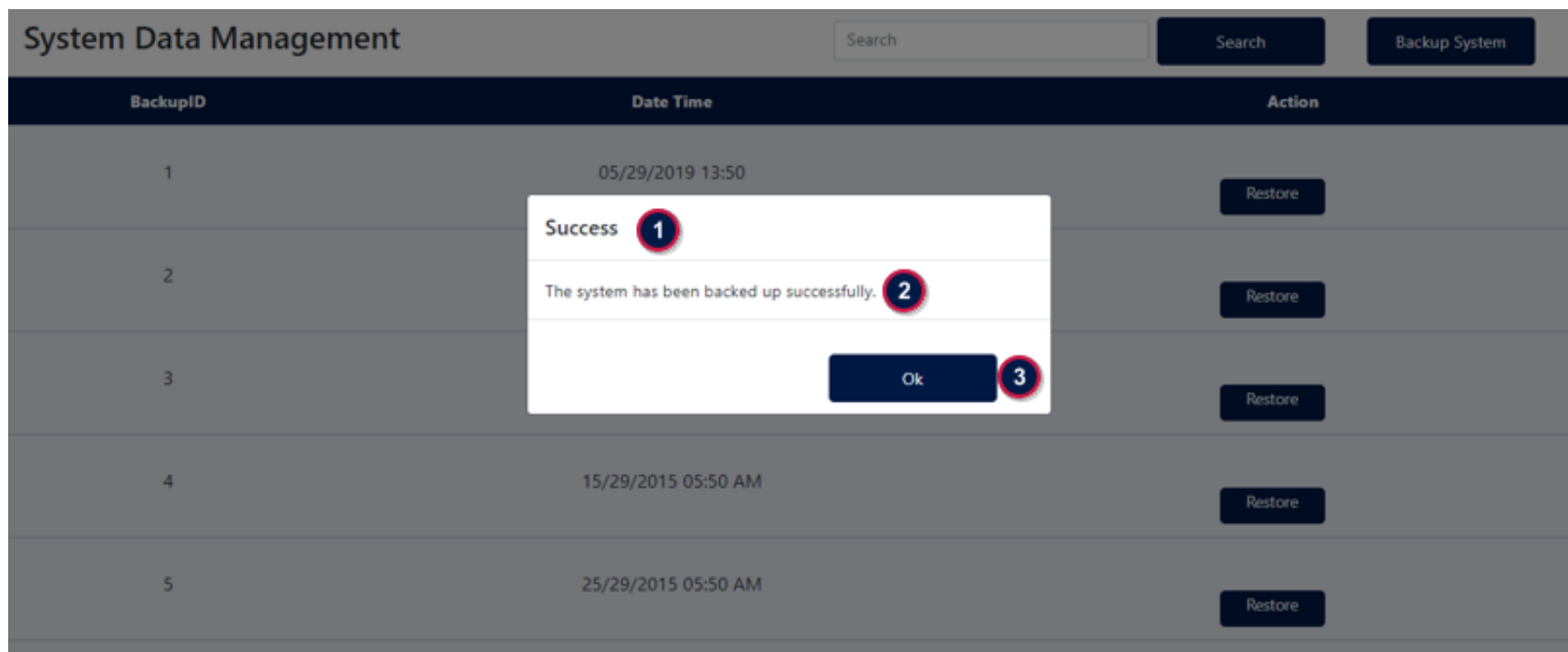


Figure 198 System backed up successfully Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Administrator back to the System Data Management screen

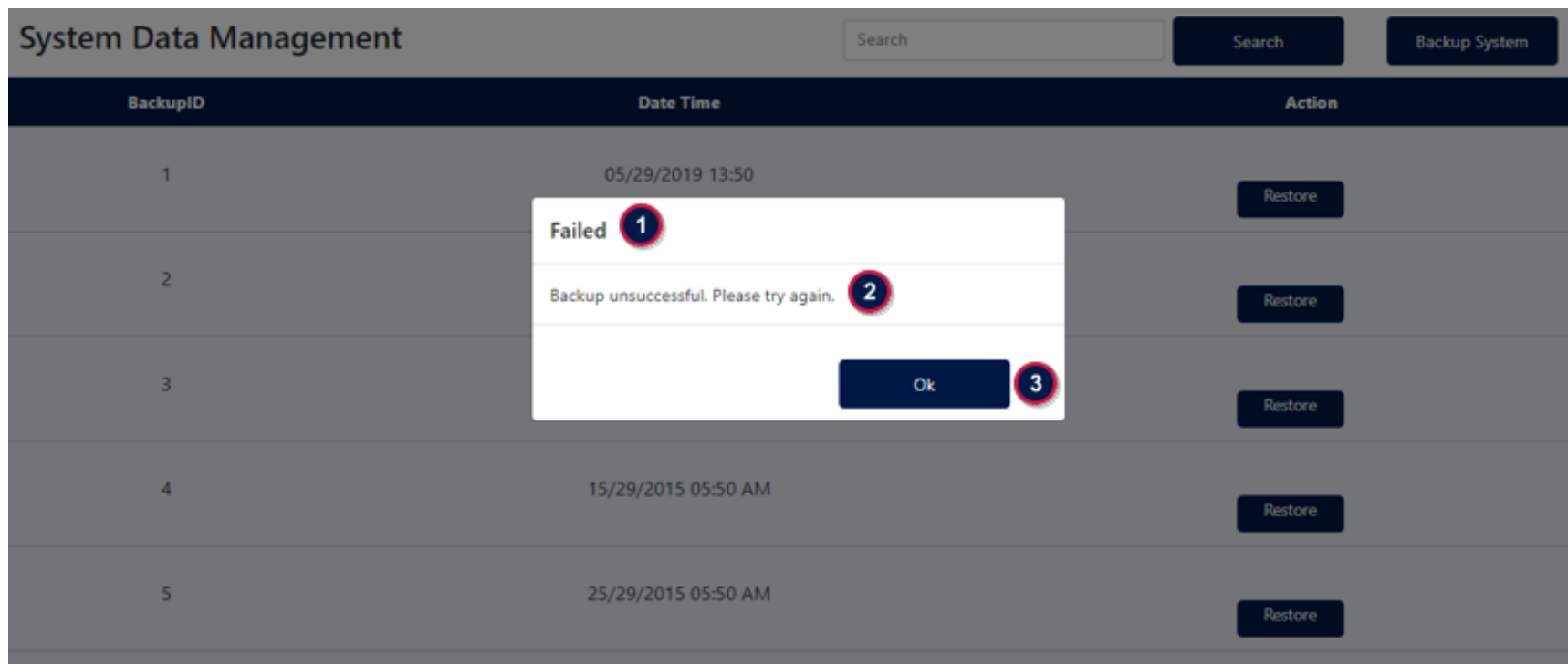


Figure 199 Backup Unsuccessful Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Unsuccessful
2	Modal message	Displays the unsuccessful message being conveyed to the user
3	Button	Ok button Redirects the Administrator back to the System Data Management screen



12.3 Restore System Screen

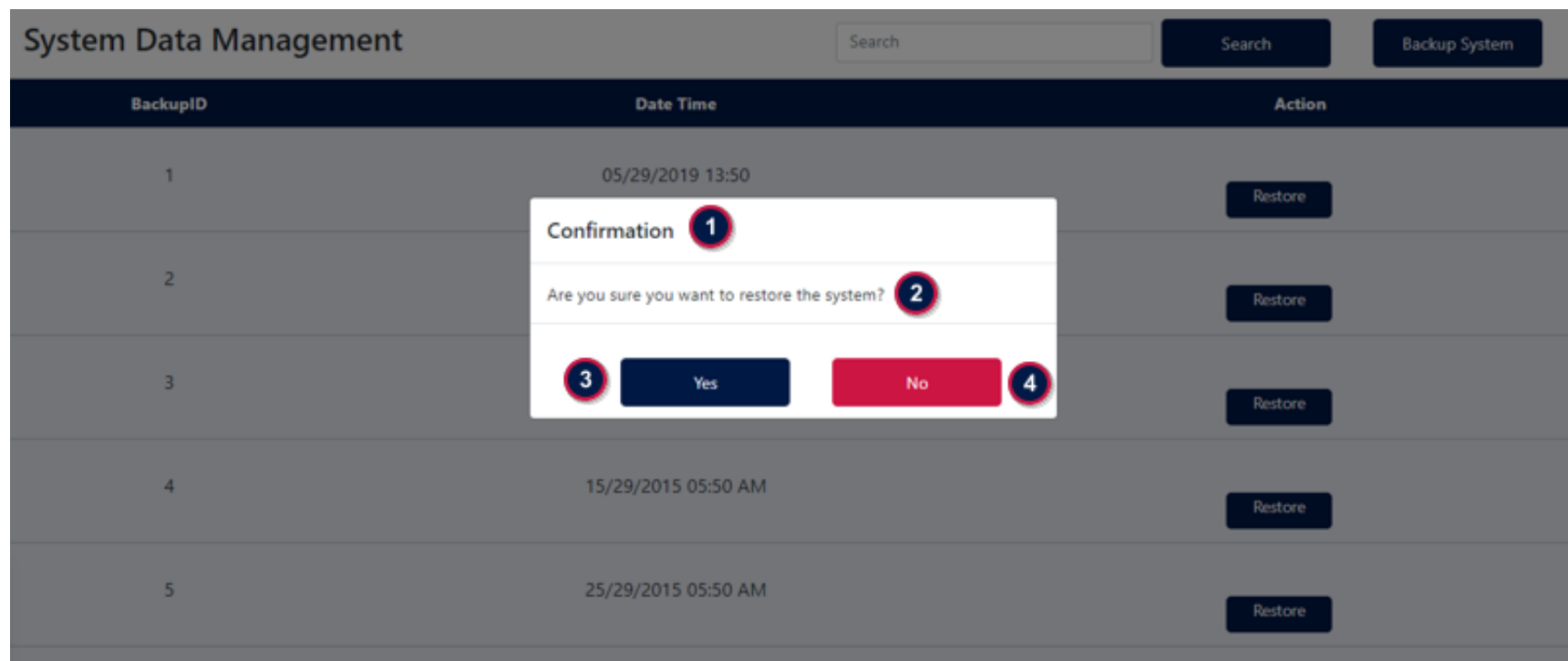


Figure 200 Restore System Confirmation Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Confirmation
2	Modal message	Displays the confirmation message being conveyed to the user
3	Button	Yes button Restores the System with the data from the Selected Backup.
4	Button	No button Redirects the Administrator to the previous System Data Management screen

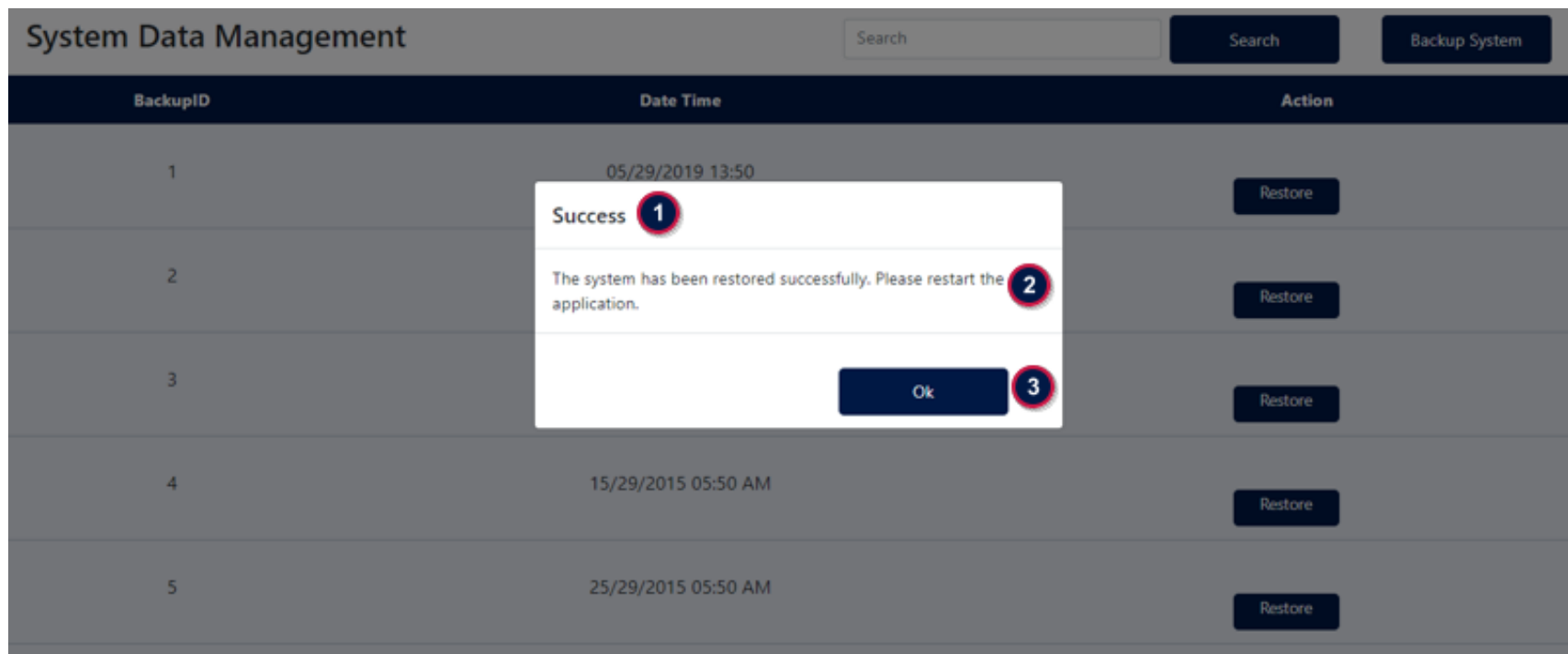


Figure 201 System Restore Success Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Success
2	Modal message	Displays the success message being conveyed to the user
3	Button	Ok button Redirects the Administrator back to the System Data Management screen

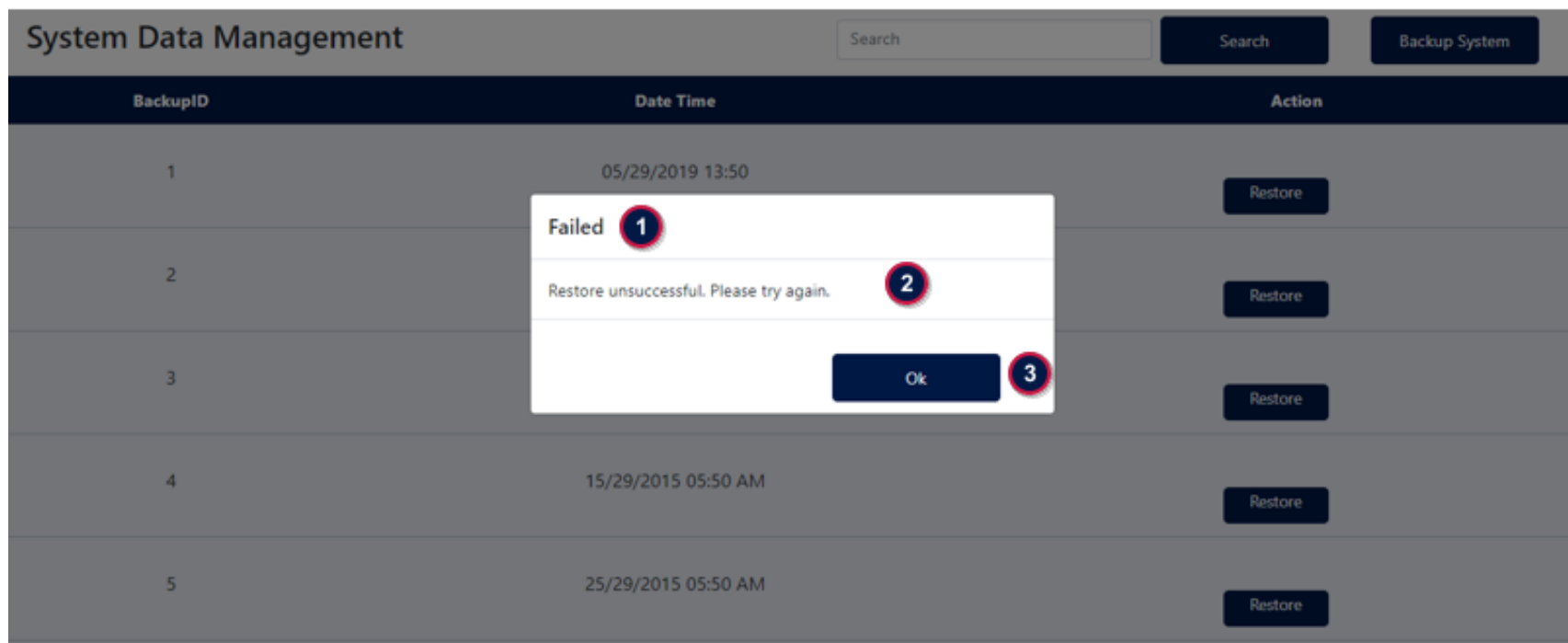


Figure 202 Restore Unsuccessful Screen

Number	Item	Description
1	Label	Displays the kind of a message being displayed on the modal, in this case, Unsuccessful
2	Modal message	Displays the unsuccessful message being conveyed to the user
3	Button	Ok button Redirects the Administrator back to the System Data Management screen



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12.4 Audit Trail Management Screen

Audit Trail Management 1				
		Search 2	Search 3	View Audit Trail Log 4
Audit Trail ID 5	User 6	Date Time 7	Transaction Type 8	Action
10265	Administrator	01/29/2020 05:15	Student Updated	View 9
10265	Administrator	01/29/2020 05:15	Student Updated	View
10265	Administrator	01/29/2020 05:15	Student Updated	View
10265	Administrator	01/29/2020 05:15	Student Updated	View
10265	Administrator	01/29/2020 05:15	Student Updated	View
10265	Administrator	01/29/2020 05:15	Student Updated	View
10265	Administrator	01/29/2020 05:15	Student Updated	View

Figure 203 Audit Trail Management Screen

Number	Item	Description
1	Label	Displays the Screen Heading
2	Textbox	The Administrator can enter in the Audit Trail to be searched
3	Button	Finds the Audit Trail with the specified details and displays them
4	Button	Redirects user to View Audit trail Entry
5	Table column	Displays all the Audit Trail ID's in the system
6	Table column	Displays all the user's corresponding with an Audit Trail entry in the system
7	Table column	Displays all the Date Times corresponding with an Audit Trail Entry in the system
8	Table column	Displays all the transaction Types corresponding with an Audit Trail Entry in the system
9	Button	Redirects the Administrator to the View Audit Trail Entry screen



12.5 View Audit Trail Log

Audit Trail ID 1	User 2	Date Time 3	Transaction Type 4
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Scheduled maintenance Added
10265	Administrator	01/29/2020 05:15	Scheduled maintenance Added
10265	Administrator	01/29/2020 05:15	Scheduled maintenance Added
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Scheduled maintenance Added
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated

Figure 204 View Audit Trail Log Screen

Number	Item	Description
1	Table column	Displays all the Audit Trail ID's in the system
2	Table column	Displays all the user's corresponding with an Audit Trail entry in the system
3	Table column	Displays all the Date Times corresponding with an Audit Trail Entry in the system
4	Table column	Displays all the transaction Types corresponding with an Audit Trail Entry in the system



12.6 View Audit Trail Entry

The screenshot shows a web application interface titled "Audit Trail Entry". It contains four input fields, each with a label on the left and a value on the right. The fields are: "Audit Trail ID:" with value "10265", "User:" with value "Administrator", "Date Time:" with value "01/29/2020 05:15", and "Transaction Type:" with value "Scheduled maintenance Added". Below these fields is a button labeled "Back to search results". Numbered callouts (1-9) are placed around the form: 1 points to the title, 2 to the label, 3 to the value, 4 to the label, 5 to the value, 6 to the label, 7 to the value, 8 to the label, and 9 to the value.

Field Label	Field Value
Audit Trail ID:	10265
User:	Administrator
Date Time:	01/29/2020 05:15
Transaction Type:	Scheduled maintenance Added

Back to search results

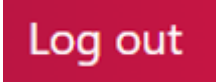
Figure 205 View Audit Trail Entry Screen



Number	Item	Description
1	Label	Displays the Screen Heading
2	Label	Displays the Audit Trail ID
3	Textbox	The Administrator can view the Audit Trail ID
3	Label	Displays the User name
4	Textbox	The Administrator can view the User Name
5	Label	Displays the Date time
6	Textbox	The Administrator can view the Date Time
7	Label	Displays the Transaction Type
8	Textbox	The Administrator can view the Transaction Type
9	Button	Redirects the Administrator to the View Audit Trail Log screen



13 Report Output Design Policy

Element Name	Positioning	Formatting	Text/Content	Shapes	Icon	Source Preview
(Client) ERP Logo	Top Left Corner	Size: H 1.5cm W 1.5cm	ERP	Elephant, Rhino, Person		
Help icon	Top Right next to the Logout button		"?" icon		Icon: Bootstrap Help Icon Size: 12	
User Signed in	Top Right Corner				Icon: Bootstrap User Icon Size: 12	
Log Out	Top Right between Help icon and User icon	Font: Avenir LT Std 45 Book Size: 12pt Color: White	Log out	Background Color: #cd1543		
Report Heading	Top Left below the Navigation bar	Font: Maven Pro Size: 22pt Color: Black	'Necessary Report Heading'			



Style: Bold			
Report Criteria Label	Top Left below the Report Heading	Font: Maven Pro Size: 10pt Color: Black Style: Bold	'Criteria Name'
Report Criteria Label	Top Left below the Report Heading	Font: Maven Pro Size: 10pt Color: Black Style: Bold	'Criteria Name'
Report Start Date	Top Left next to its label	Font: Maven Pro Size: 11pt Color: Black Style: Normal	'DD/MM/YYYY'
Report End Date	Right side of the corresponding label	Font: Maven Pro Size: 11pt Color: Black Style: Normal	'DD/MM/YYYY'



Report Date Criteria Date-Picker	Right side of the corresponding label		'01/02/2020'	Icon: Bootstrap Calendar Icon Size: 12	
Criteria Drop-Down Menu	Below the corresponding label		'Chosen Report Generation Criteria'		2nd Term ▾
Download Report button	Top Left below the criteria and sometimes below the Report Heading	Font: Avenir LT Std 45 Book Size: 11pt Color: White Style: Normal	Download Report	Shape: Rectangle, Rounded Corners around Text Color: #001844	
Generate Report button	Top Left below the Report Heading	Font: Avenir LT Std 45 Book Size: 11pt Color: White Style: Normal	Generate Report	Shape: Rectangle, Rounded Corners around Text Color: #001844	
Generated Table Report Header	Center of the page, covering 90% of the width, Heading of the Table	Font: Maven Pro Size: 13pt Color: White Style: Bold	'Necessary Headings'	Background Color: #001844	



Alignment: Center					
Generated Table Report Content	Center of the page, covering 90% of the width, below the Header Row	Font: Avenir LT Std 45 Book Size: 12pt Color: Black Style: Normal Alignment: Center	'Calculated as well as direct attribute values from the database	Background Color: #869ec3	
Generated Graph (Only available on certain reports)	Below the Report Criteria and Report Buttons		Appropriate business context diagrams that align with the color scheme.	Split Bar Graph	Colors: #001844, #cd1543
Generated Graph Legend	Centralized at the Top of the generated graph.	Font: Avenir LT Std 45 Book Size: 12pt Color: #cfd1d3 Style: Normal Alignment: Center	Appropriate business context text		Colors: #001844, #cd1543
Generated Graph Axis Labels	Aligned alongside the axes in line with their	Font: Avenir LT Std 45 Book Size: 12pt	Appropriate business context text		



	corresponding values	Color: #cfd1d3 Style: Normal Alignment: Center		
Control Break Heading Cell	Top Left of each table breakdown	Font: Avenir LT Std 45 Book Size: 12pt Color: White Style: Normal Alignment: Left	Relevant Business Context of what is being broken down and calculated.	Background Color: #cd1543
Control Break Footer Cell	Bottom Right of each table breakdown	Font: Avenir LT Std 45 Book Size: 12pt Color: White Style: Normal Alignment: Center	Relevant Business Context of what is being broken down and calculated.	Background Color: #001844
Running Total Label	Bottom Left, below the generated report	Font: Maven Pro Size: 20pt Color: Black Style: Bold	Relevant Business Context displaying a mini-description	Background Color: #cfd1d3



		Alignment: Left	of what is being described.	
Running Total	To the right of the corresponding label	Font: Maven Pro Size: 20pt Color: Black Style: Bold Alignment: Left	Relevant Business Context displaying the calculated value	Background Color: #cfd1d3