



Virtual Visionaries
We See What You Don't

9/7/2020
#Bikes4ERP_VVS



#BIKES4ERP

Informatics 370 Deliverable 3 – Prototype

11/09/2020

The technical specification deliverable aims to give further information about the system and contains all the prototype screens of the system. These prototype screens will give an overview of how and what the final product might look and feel like. All general functionality features will be shown.



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Virtual Visionaries
GROUP 17

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1 Deliverable Introduction

This deliverable aims to present a prototype of the System and how it will appear to look. By having a visual Prototype, it will make coding the screens a lot easier in the upcoming Deliverables.



2 Prototype Screen Designs

2.1 Introduction

Shown below are all the screens that will be in the system.

Side Note: The screens for the "View" Screens do not include the error handling because it is the same as the "Create" Screen validation.



2.2 Sub-system 1: User

2.2.1 Home Screen

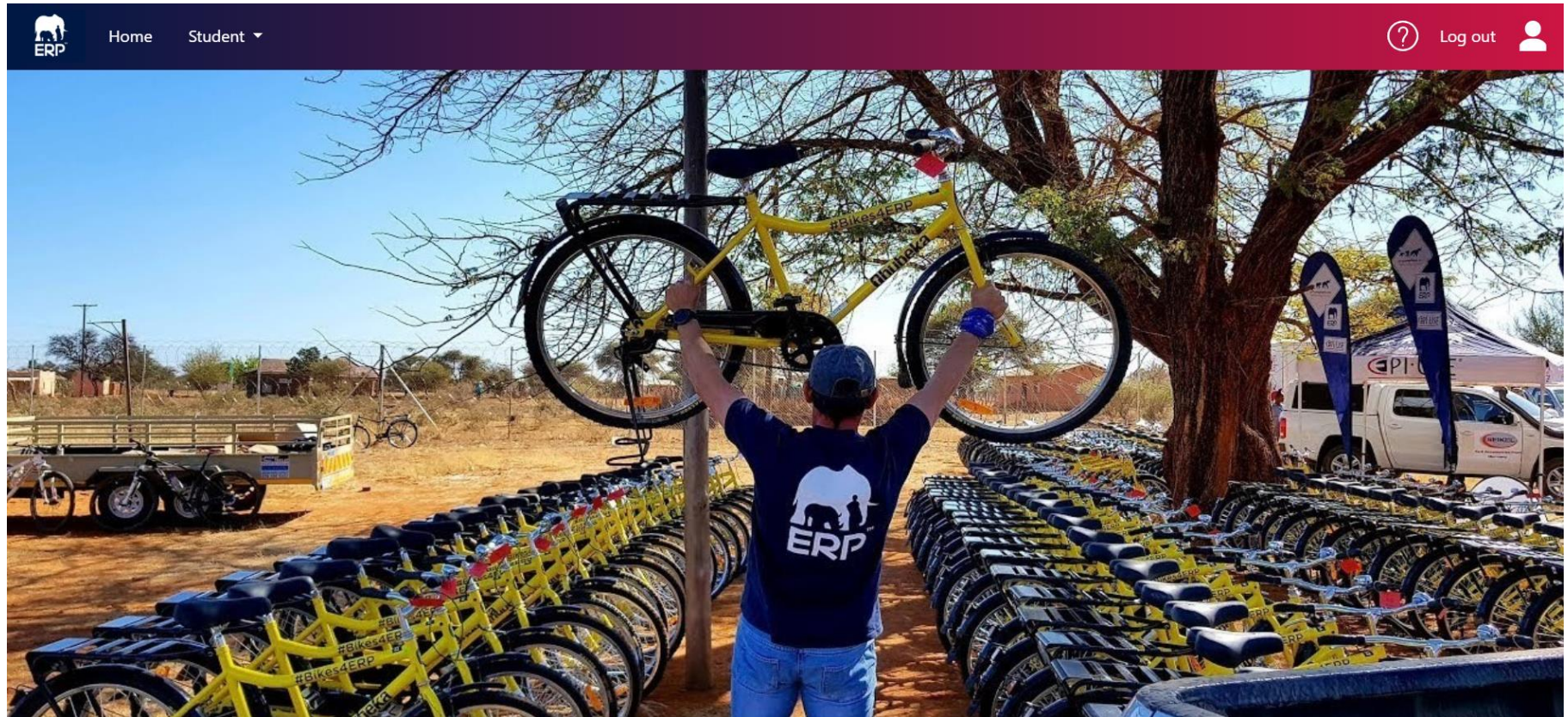


Figure 1 Home Screen



#ERP4BIKES

Our Mission

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



Figure 2 Mission Statement



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.

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, don't forget to leave a like!



Information

Contact VVS Team

General Help

About

FAQs



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Figure 3 Social Medias



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2.2.2 Navigation bar options

2.2.2.1 When a Mechanic is logged in

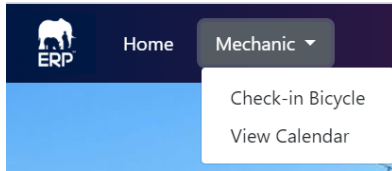


Figure 4 Mechanic Home Screen



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2.2.2.2 *When a School Administrator is logged in*

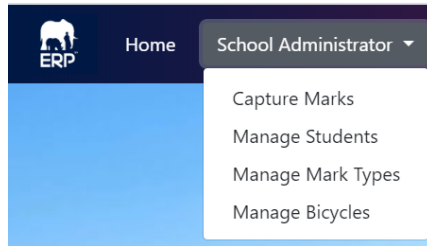


Figure 5 School Admin Home Screen



2.2.2.3 *When a Super Administrator is logged in*

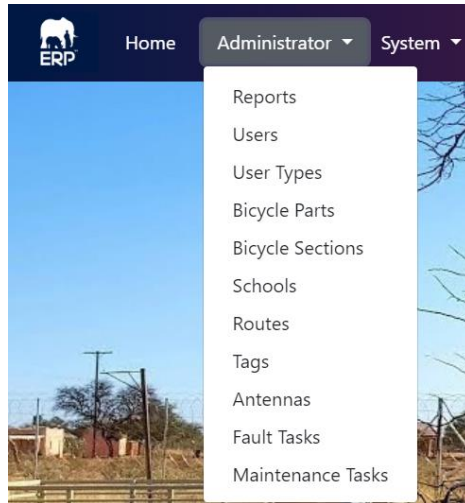


Figure 6 Super Admin Home Screen



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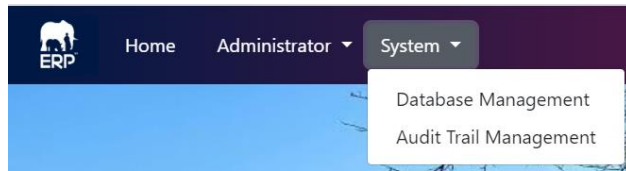


Figure 7 Super Admin Home Screen 2



2.2.3 Login Screen

The login screen features a central white card on a light gray background. At the top of the card, the text 'Welcome Back!' is displayed in a large, bold, black font. Below this, the instruction 'Please log into your account' is written in a smaller, regular black font. The login form consists of 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 card, there is a 'Forgot Password?' link.

Figure 8 Login Screen



Welcome Back!

Please log into your account

Username:

Please enter your Username ×

Password:

Error! Login failed, please make sure your Username and Password are correct ×

Login

[Forgot Password?](#)

Figure 9 Login Error Screen



2.2.4 Forgot Password Screens

The image shows a 'Forgot Password' screen. At the top, the title 'Forgot Password' is centered in a large, bold, black font. Below the title, the instruction 'Please enter your email' is centered in a smaller, regular black font. Underneath this, the label 'Email:' is positioned to the left of a text input field. The input field contains the email address 'JamieTheAdmin@gmail.com'. Below the input field, there are two buttons: a 'Submit' button with a dark blue-to-red gradient and a 'Cancel' button with a light gray gradient. The entire form is centered within a white rectangular area, which is itself centered on a light gray background.

Figure 10 Forgot Password Screen



Forgot Password

Please enter your email

Email:

Please enter your Email ×

Error! Email is invalid, please try again ×

Submit

Cancel

Figure 11 Forgot Password Error Screen

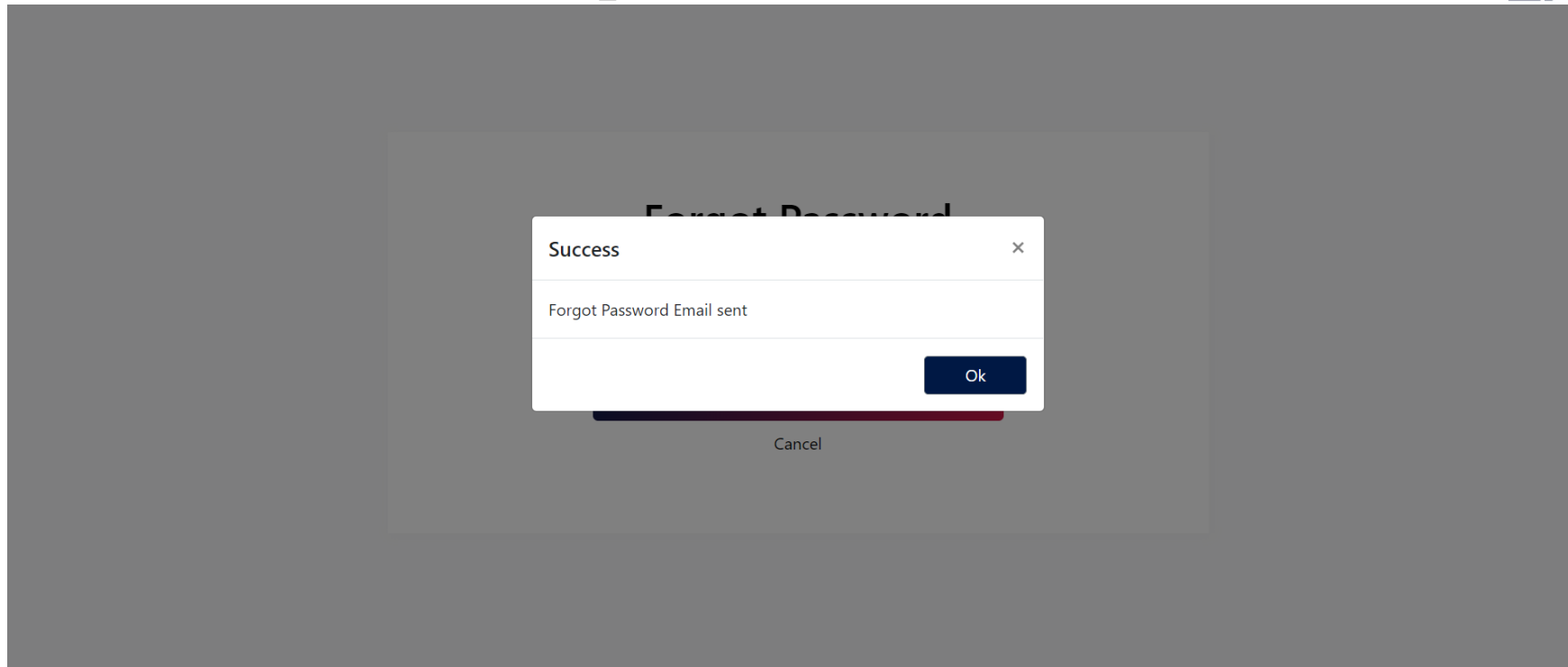


Figure 12 Forgot Password Email Sent Screen



Password Reset

Please Enter your new password

Password:
.....

Confirm Password:
.....

Submit

Cancel

Figure 13 Password Reset 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

Figure 14 Password Reset Error Screen

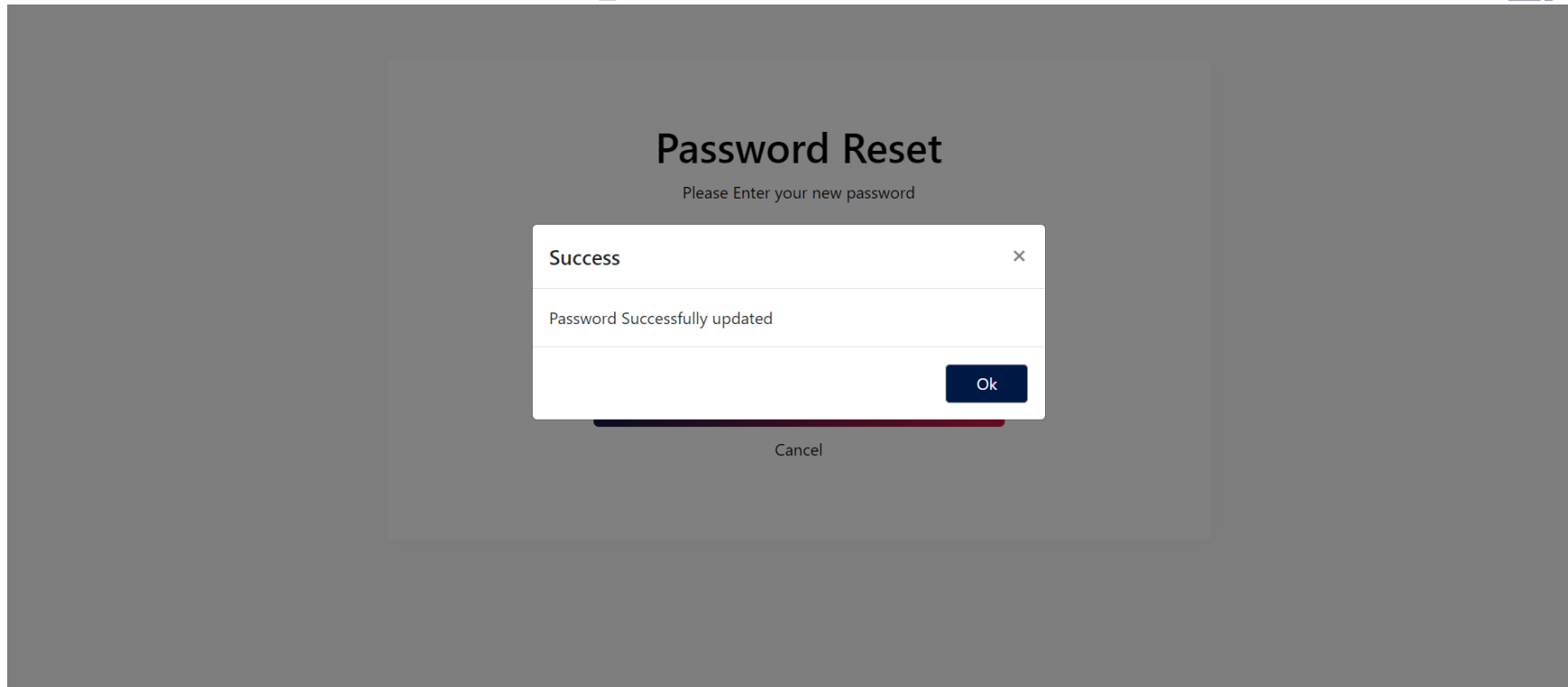


Figure 15 Password Reset Success Screen



2.2.5 User Management Screen

User			
		 Search	 Log out 
Fullname	User Type	Action	
John Doe	Admin		
Jane Doe	Admin		
David Smith	Mechanic		
Timmy smalls	Admin		
Tapi Wapi	Mechanic		
Rick Sanchez	Inventor		

Figure 16 User Management Screen



2.2.6 Create User Screen

User

Name:

Surname:

Email:

Username:

User Type:

Phone Number:

Password:

Confirm Password:

Figure 17 Create User Screen 1



User

Name:

Please enter a Name



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

Continue

Cancel



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Figure 18 Create User Error Screen 1

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Note: This screen appears if the User Role is of the type School Administrator

User

School:

John School

Position:

Primary

Create New User

Cancel

Figure 19 Create User Screen 2



User

School:

--Select--

Please Select a option

Position:

Primary

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

Create New UserCancel

Figure 20 Create User Error Screen 2



User

School:

--Select--

Confirmation

Are you sure you want to create a new User?

Yes

No

Create New User

Cancel

Figure 21 Create User Confirmation Screen



Phone Number:

Password:

Success

User was successfully created

Ok

Continue Cancel

Figure 22 User Created Success Screen



2.2.7 View User Screen

User

Name:
Jamie

Surname:
Doe

Email:
JamieDoe@gmail.com

Username:
123Jamie

User Type:
School Administrator

Phone Number:
0724156672

Update Delete

Figure 23 View User Screen 1



User

Name:

Please enter a Name ×

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 ×

UpdateDelete

Figure 24 View User Error Screen 1



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Note: Selecting the "Update" option will take the user to this Screen, also there is validation here but we just did not include it as it was already demonstrated previously when "Adding User".

The image shows a mockup of a 'User' update screen. It features a white central card on a light gray background. The card has the title 'User' at the top. Below the title are two dropdown menus: 'School:' with 'John School' selected, and 'Position:' with 'Secondary' selected. At the bottom of the card are two dark blue buttons: 'Update User' and 'Cancel'.

Figure 25 View User Screen 2

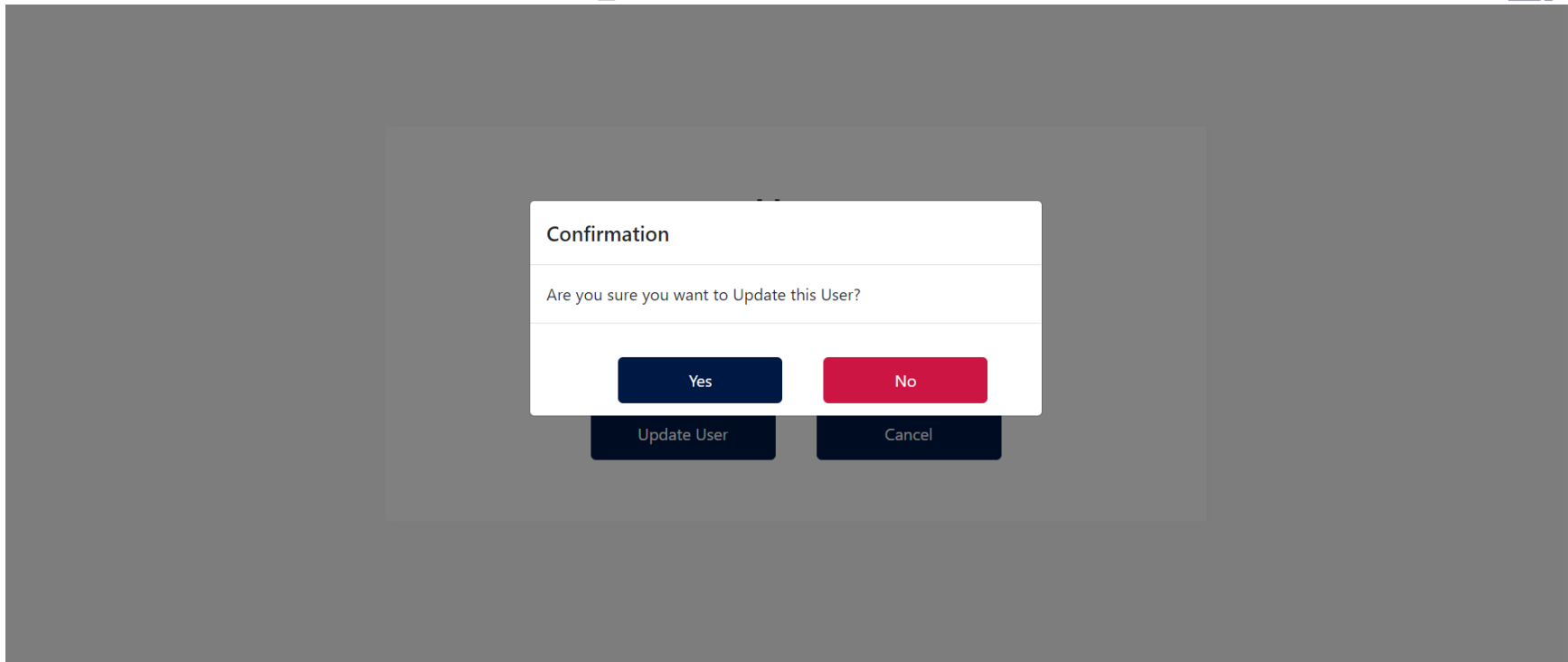


Figure 26 Update User Confirmation Screen

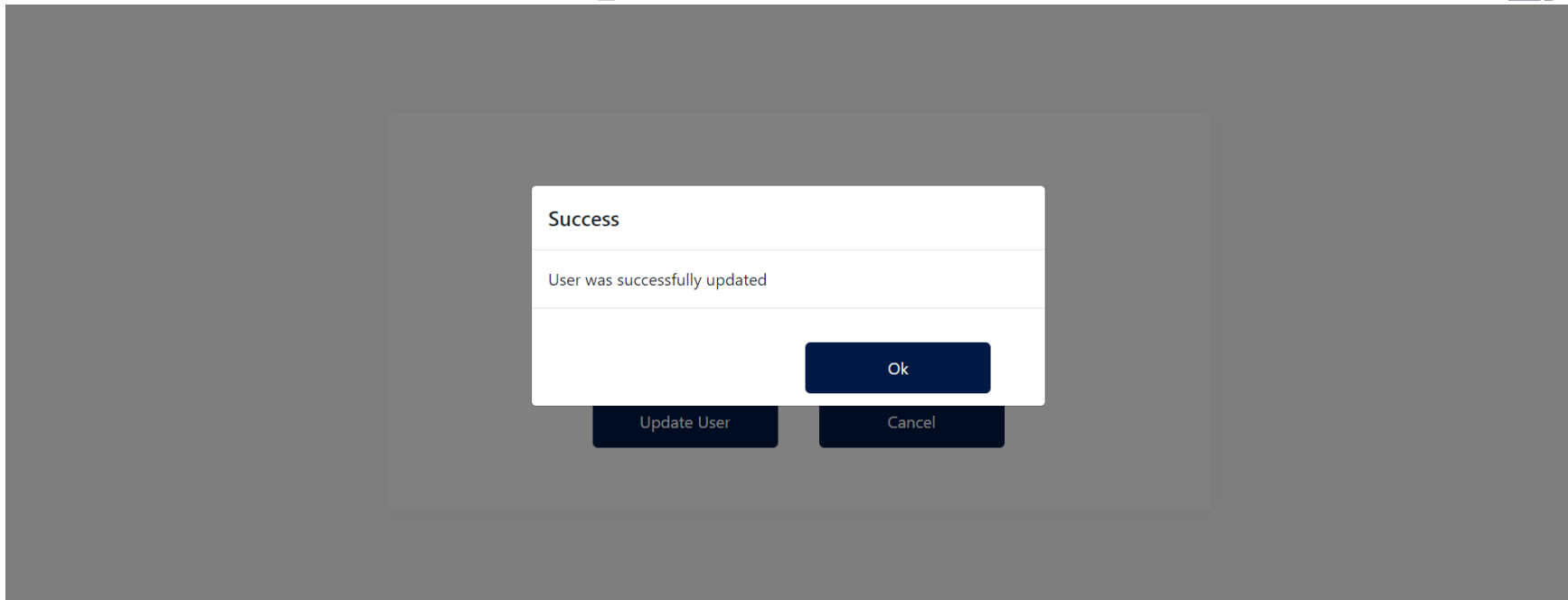


Figure 27 User Update Success Screen



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Note: Selecting the "Delete" option will prompt the following:

Name:
Jamie

Surname:
Doe

Phone Number:
0721245678

Update Delete

Confirmation

Are you sure you want to Delete this User?

Yes No

Figure 28 Delete User Confirmation Screen

Followed by:

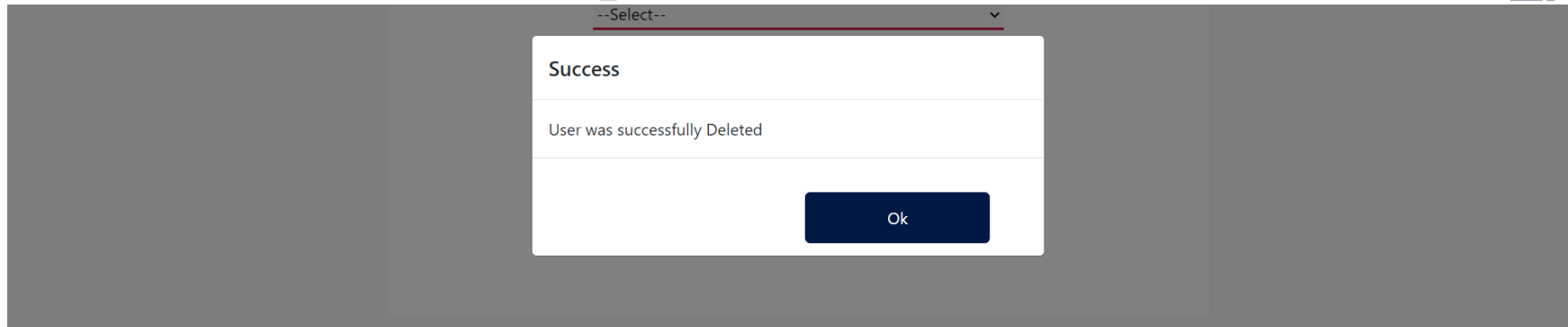


Figure 29 Delete User Success Screen



2.2.8 User Type Management Screen

User Type			
		Search	Search
Type	Description	Action	
John Doe	Administrator		
Jane Doe	School Administrator		
David Smith	Mechanic		
Timmy smalls	School Administrator		
Tapi Wapi	Mechanic		
Rick Sanchez	Administrator		

Figure 30 User Type Management Screen



2.2.9

Create User Type Screen

User Type

Type:

Description:

Permissions:

CreateCancel

Figure 31 Create User Type 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

CreateCancel

Figure 32 Create User Type Error Screen



Confirmation

Are you sure you want to create a new User Type?

Yes No

Medium

Create Cancel

Figure 33 Create User Type Confirmation Screen

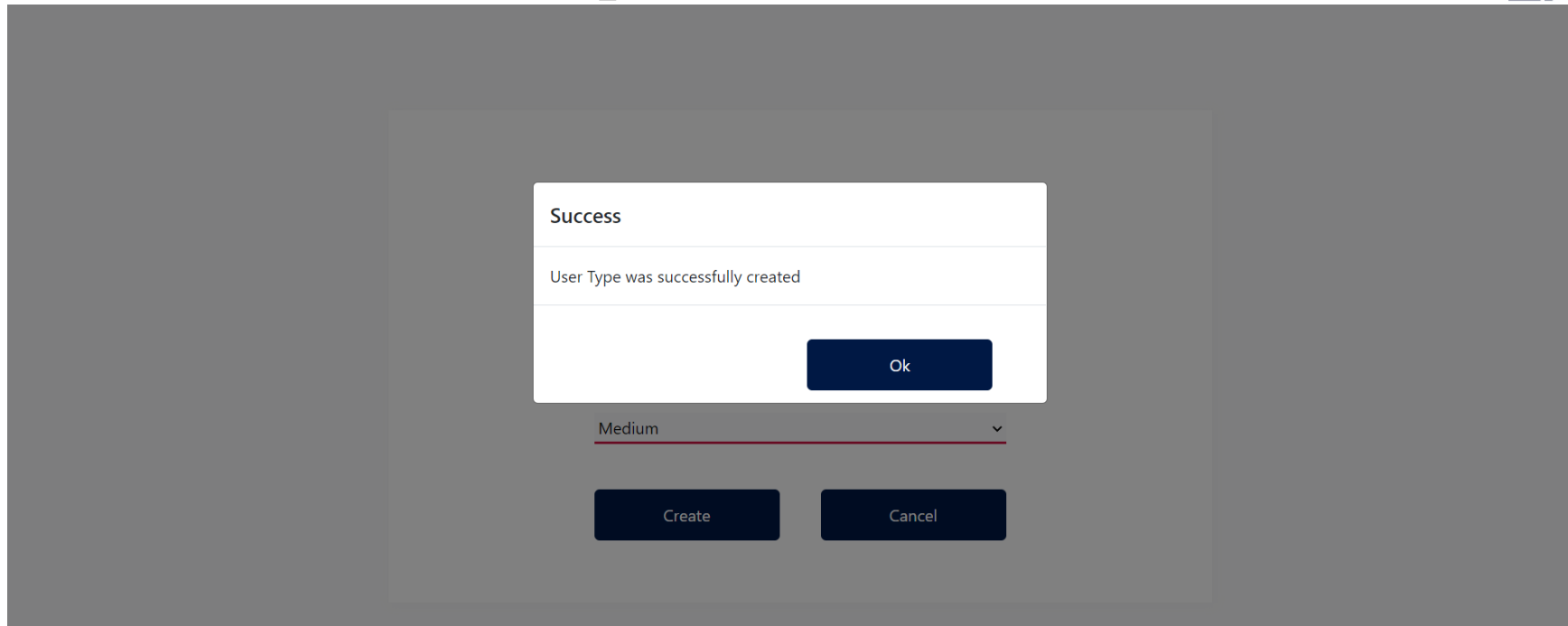


Figure 34 User Type Create Success screen



2.2.10 View User Type Screen

User Type

Type:
Inventor

Description:
Creates new things

Permissions:
Medium

Update Delete

Figure 35 View User Type Screen



Clicking the "Update" option:

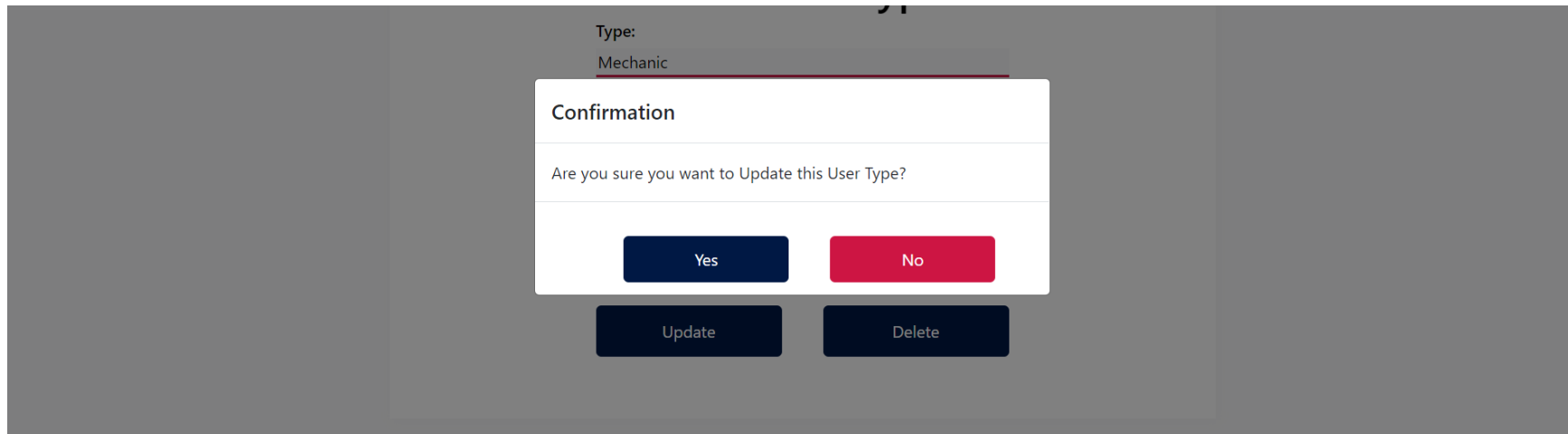


Figure 36 Update User Type Confirmation Screen

Followed by:

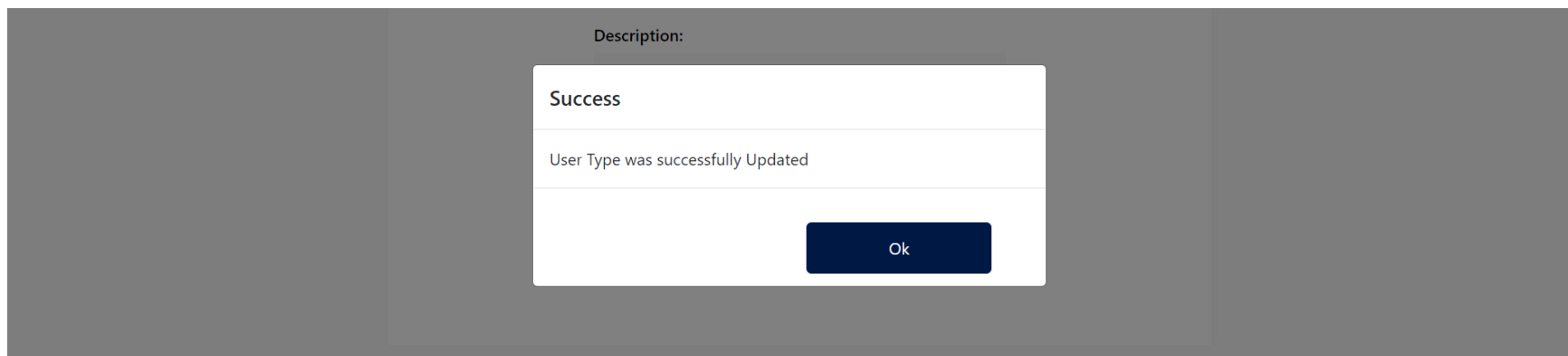


Figure 37 User Type Update Success Screen



Clicking the "Delete" option:

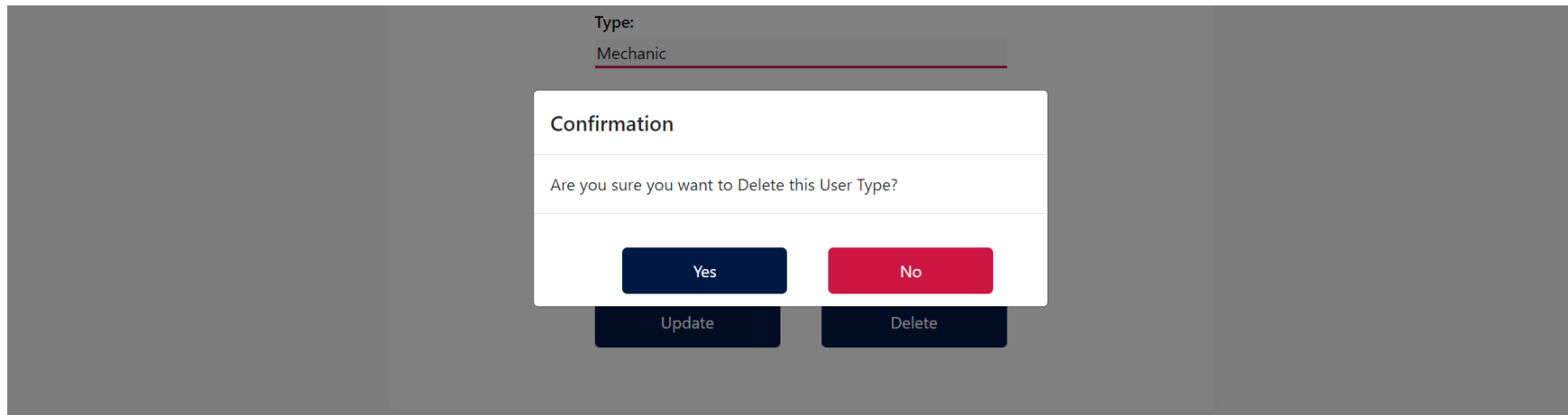


Figure 38 Delete User Type Confirmation Screen

Followed by:

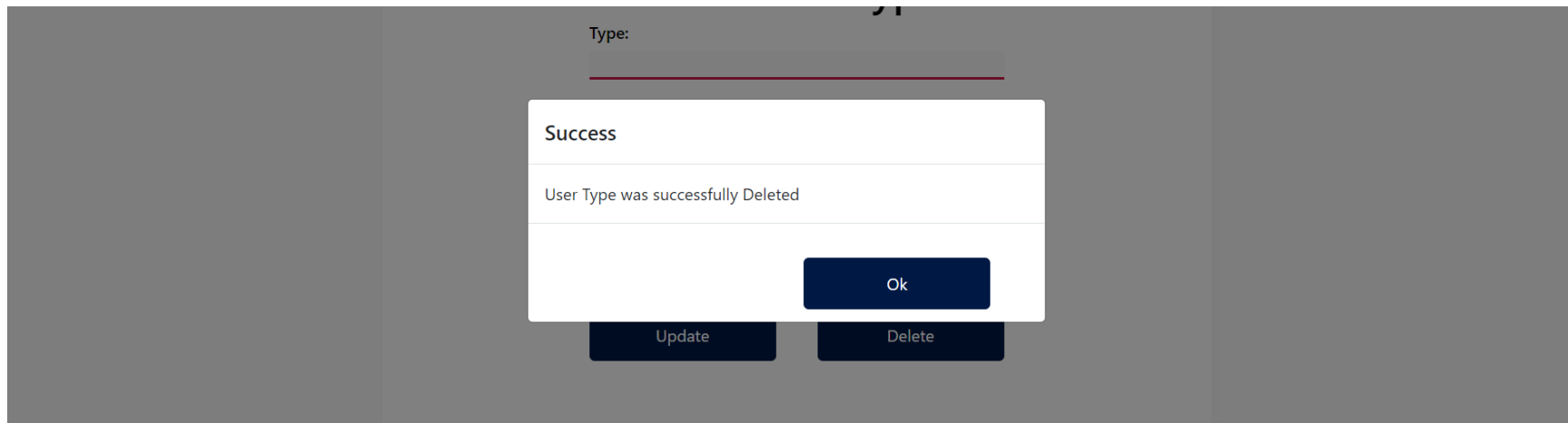


Figure 39 User Type Successfully Deleted Screen



2.3 Sub-System 2: Mechanic Schedule

2.3.1 Mechanic Calendar Screen

Mechanic Calendar Screen:

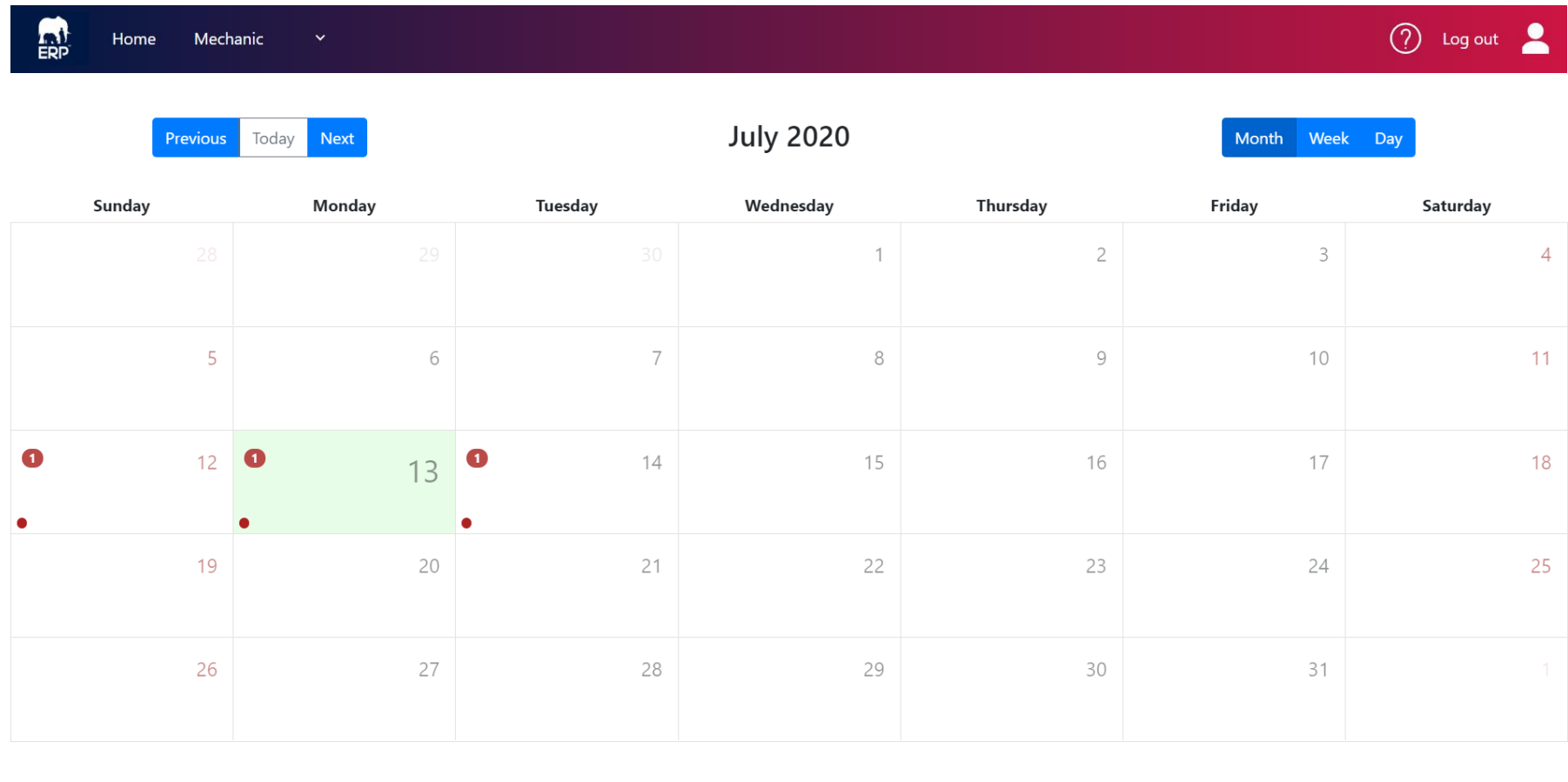


Figure 40 Mechanic Calendar Screen



2.3.2 Job Screens

Job Screen:

 Home Mechanic 				 Log out 	
22nd March - Jobs					Check-In Bicycle
Fault Jobs					
1	1001	In Progress			
Total Tasks: 5		Tasks Completed: 3			
2	1021	Awaiting Arrival			
3	1108	Checked-In			
Maintenance Jobs					
4	1504	Completed			
5	1302	Checked-In			
Total Tasks: 3		Tasks Completed: 0			

Figure 41 Job Screen



2.3.3 Job List Screen

	Home	Mechanic	?	Log out	
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 42 Job List Screen



2.4 Sub-System 3: Tracking Hardware

2.4.1 Antenna Management Screen

Antenna Management			
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	
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 43 Antenna Management Screen



2.4.2 Create Antenna Screen

Antenna

Antenna Serial Number
5656598-E58

Antenna Status
Working

Co-ordinates
15.8946° S, 48.2327° E

Suburb
Hatfield

Date Installed
2020/07/12

Create Cancel

Figure 44 Create Antenna 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 45 Create Antenna Error Screen



Antenna

Antenna Serial Number
5656598-E58

Antenna Status

Confirmation

Are you sure you want to add this Antenna?

Yes

No

Hatfield

Date Installed
2020/07/12

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

Create

Cancel

Figure 46 Create Antenna Confirmation Screen



Antenna

Antenna Serial Number

Antenna Status

Success

Antenna has been added successfully.

Ok

Date Installed

yyyy/mm/dd

Create Cancel

Figure 47 Create Antenna Success Screen



2.4.3 View Antenna Screen

Antenna

Antenna Serial Number:
5656598-E89

Status:
Working

Co-ordinates:
55.7566° S, 89.2894° E

Suburb:
Mafikeng

Date Installed:
2020/07/12

Update Delete

Figure 48 View Antenna Screen



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 49 View Antenna Error Screen



Antenna

Antenna Serial Number:

Confirmation

Are you sure you want to update this Antenna?

Yes

No

Select

Date Installed:

yyyy/mm/dd

Update

Delete

Figure 50 Update Antenna Confirmation Screen



Antenna

Antenna Serial Number:

Success

The Antenna has been updated successfully.

Ok

Select

Date Installed:

yyyymmdd

Update

Delete

Figure 51 Update Antenna Success Screen



Antenna

Antenna Serial Number:

Confirmation

Are you sure you want to delete this Antenna?

Yes

No

Mafikeng

Date Installed:
2020/07/12

Update

Delete

Figure 52 Delete Antenna Confirmation Screen



Antenna

Antenna Serial Number:

Success

The Antenna has been deleted successfully.

Ok

Select ▼

Date Installed:

yyyy/mm/dd 📅

Update

Delete

Figure 53 Delete Antenna Success Screen



2.4.4 Tag Management Screen

Tag Management					Search	Search
Tag Serial Number	Bicycle Code	Tag Status	Action			
5656598-E58	10111	Assigned				
8623598-E60	10122	Assigned				
5656598-E56		Available				
5566598-E89	10123	Assigned				
5656598-E89		Available				
5656598-E85		Available				

Figure 54 Tag Management Screen



2.4.5 Create Tag Screen

Tag

Tag Serial Number:

5656598-E58

Create

Cancel

Figure 55 Create Tag Screen



Tag

Tag Serial Number:

Please enter the Tag's serial number ×

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

CreateCancel

Figure 56 Create Tag Error Screen



Tag

Tag Serial Number:

Confirmation

Are you sure you want to add this Tag?

Yes No

Figure 57 Create Tag Confirmation Screen

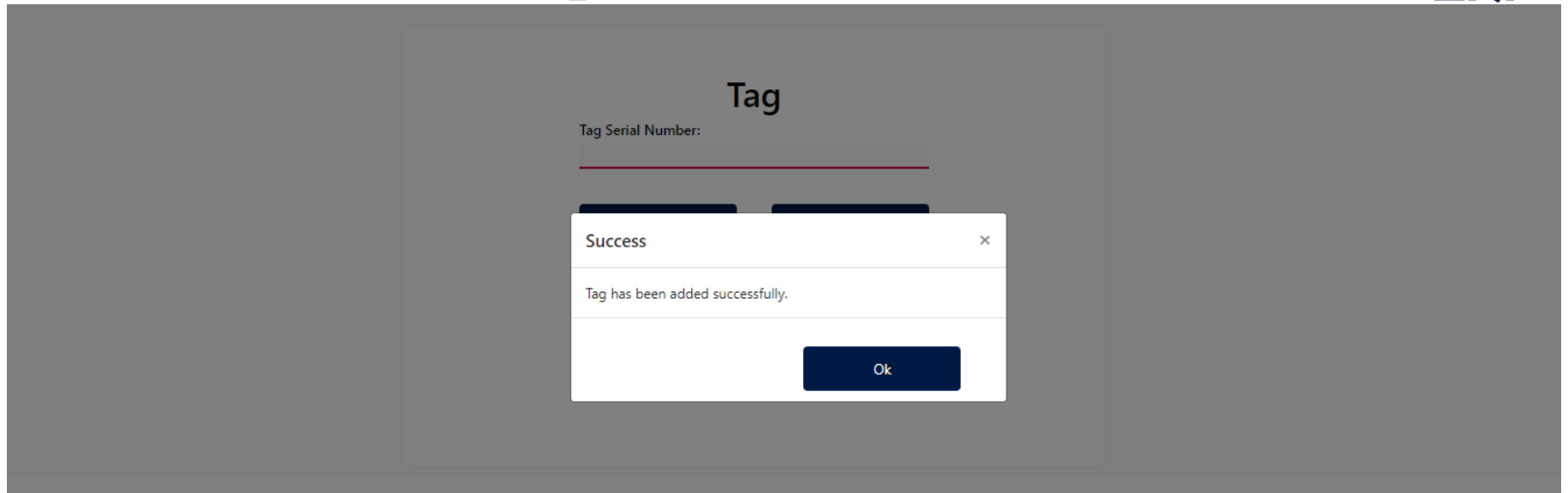


Figure 58 Create Tag Success Screen



2.4.6 View Tag Screen

Tag

Tag Serial Number:
5656598-E58

Tag Status:
Working

Date Installed:
2020/07/12

Update Delete

Figure 59 View Tag Screen



Tag

Tag Serial Number:
556598-E58

Tag Status:
Working

Date Installed:
yyyy/mm/dd

Please enter the date installed

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

Update Delete

Figure 60 View Tag Error Screen



Tag

Tag Serial Number:

Confirmation

Are you sure you want to update this Tag?

Yes

No

Update

Delete

Figure 61 Update Tag Confirmation Screen

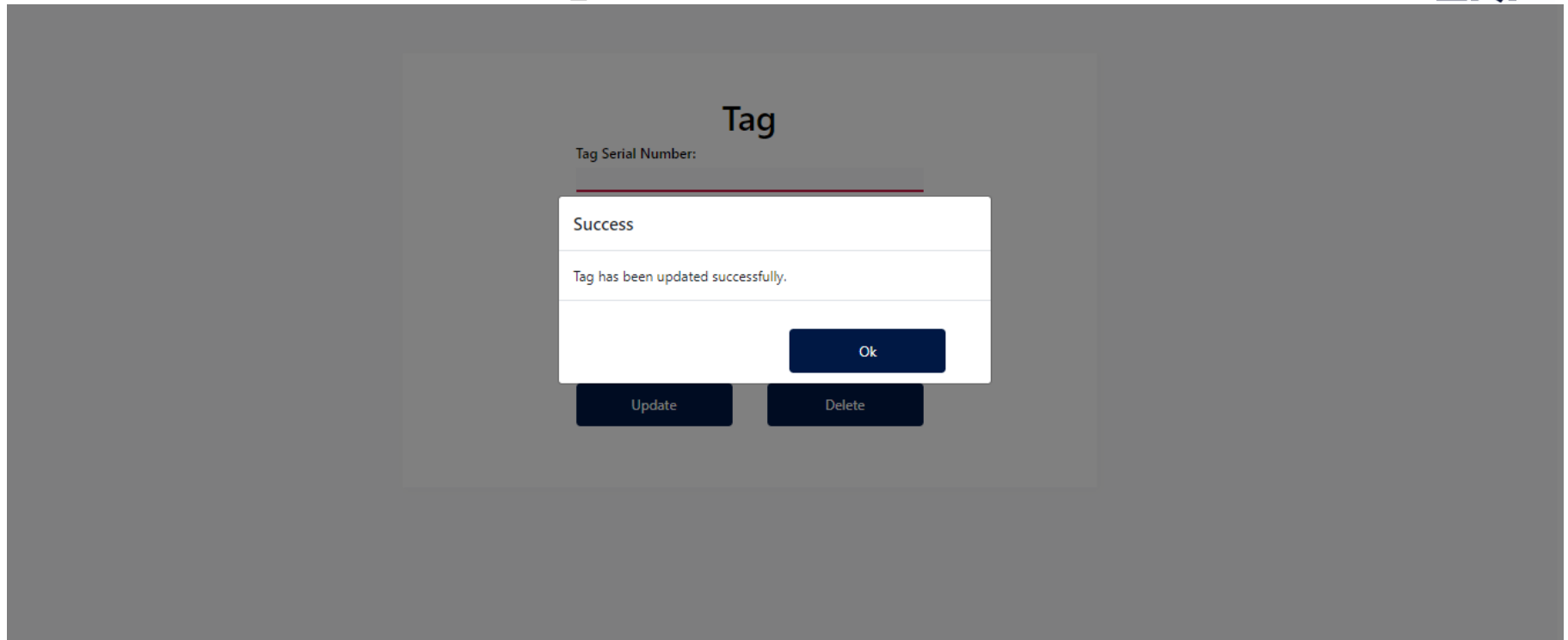


Figure 62 Tag Update Success Screen

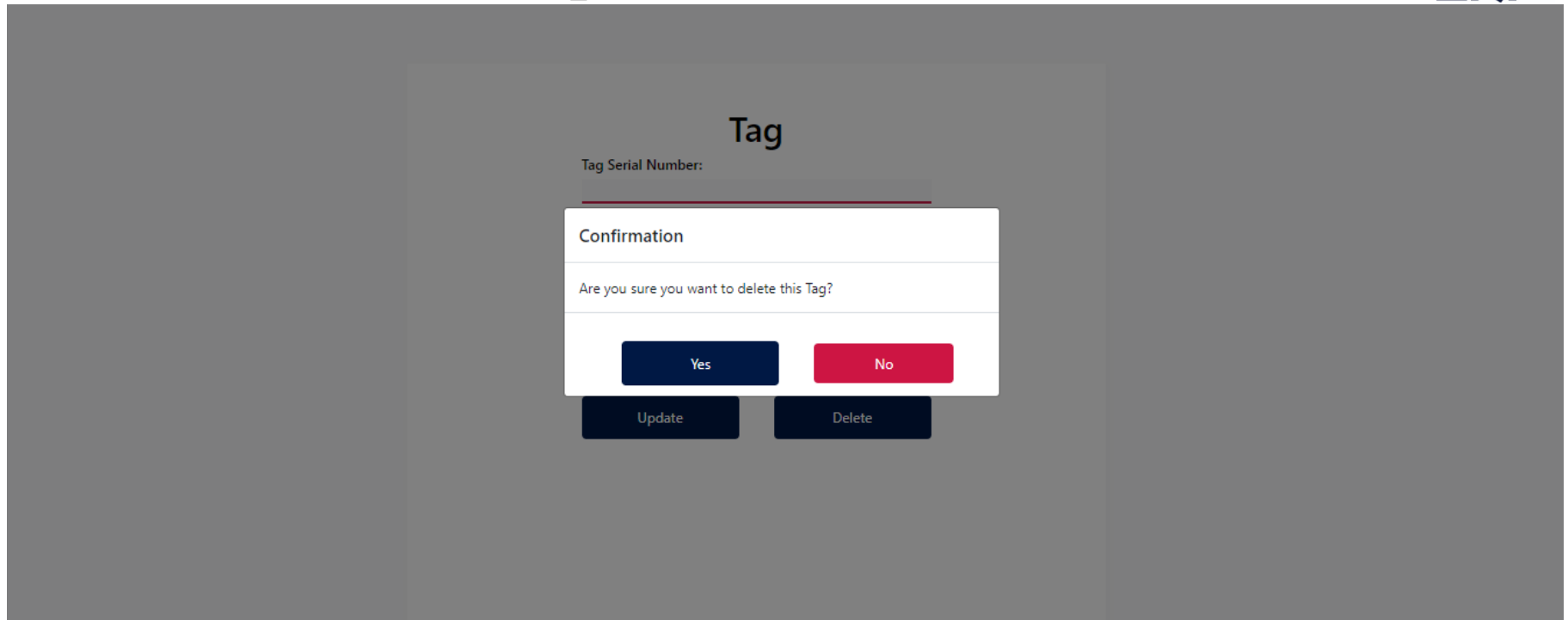


Figure 63 Delete Tag Confirmation Screen

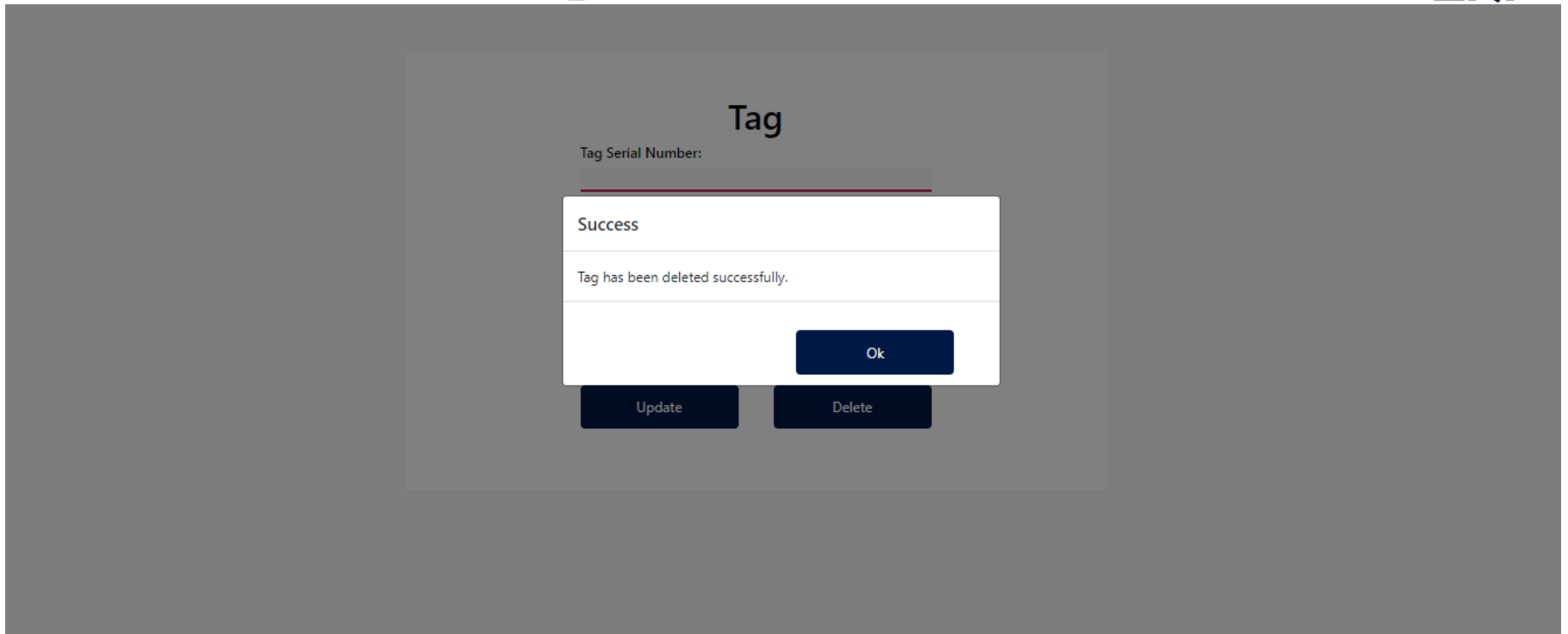


Figure 64 Tag Delete Success Screen



2.5 Sub-System 4: Student

2.5.1 Student Management Screen

Student Management			
Name	Surname	Bicycle Code	Action
Cam	King	10269	
Gareth	Philly	10587	
Rufy	Tapi	10699	
Byron	McDonald	10269	
Hanny	Lee	10285	
Shana	Code	10852	

Figure 65 Student Management Screen



2.5.2 Create Student Screen

Student

Name:
Cameron

Surname:
King

Phone Number:
0786495003

Date of Birth:
2002/06/12

Village:
Mafikeng

School:
Secondary School Mafikeng

Guardian Details

Guardian Name:
Lisa Huet

Guardian Email:
lisa@gmail.com

Guardian Phone Number:
0833250479

Create Cancel

Figure 66 Create Student Screen



Student

Name: Cameron

Surname: King

Phone Number: 0786495003

Date of Birth: 2004

Village: Villa

Maiden Name: Maf

School: Scho

Section: Sec

Guardian Details

Guardian Name: Lisa Huet

Guardian Email: lisa@gmail.com

Guardian Phone Number: 0833250479

Create Cancel

Confirmation

Are you sure you want to add this Student?

Yes No

Figure 67 Create Student Confirmation Screen



Student

Name:
Cameron

Surname:
King

Phone Number:
0836495003

Date of Birth:
2020/07/11

Village:
Mafikeng

School:
Select

Please select a School. x

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 68 Create Student Error Screen



2.5.3 View Student Screen

Student

Name:
Cameron

Surname:
King

Bicycle Code:
02659

Phone Number:
0833250419

Date of Birth:
1998/04/25

Village:
Mahikeng

School:
Mahikeng Secondary School

Guardian Details

Guardian Name:
Lisa

Guardian Email:
lisa@gmail.com

Guardian Phone Number:
0896452009

Update Delete

Figure 69 View Student 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 70 Delete Student Confirmation Screen



Student

Name:

Surname:

Bicycle Code:

Phone Number:

Date of Birth:

Success

The Student has been deleted successfully.

Ok

Guardian Details

Guardian Name:

Guardian Email:

Guardian Phone Number:

Figure 71 Student Created Success Screen



Student

Name:

Surname:

Bicycle Code:

Phone Number:

Date of Birth:

Confirmation

Are you sure you want to update this Student?

YesNo

Guardian Details

Guardian Name:

Guardian Email:

Guardian Phone Number:

UpdateDelete

Figure 72 Update Student Confirmation Screen



Student

Name:

Surname:

Bicycle Code:

Phone Number:

Date of Birth:

Success

The Student has been updated successfully.

Ok

Guardian Details

Guardian Name:

Guardian Email:

Guardian Phone Number:

Figure 73 Student Updated Success Screen



2.5.4 Student Mark Management Screen



Home

School Administrator ▾

 Log out 

Student Mark Management

Search

Name	Surname	Current Mark	Action
Cam	King	50%	Capture Mark
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 74 Student Mark Management Screen



2.5.5 Capture Student Mark Screen

Student Mark

Mark:
56

Mark Type:
Half Year

Date:
2020/07/06

Capture Cancel

Figure 75 Capture Student Mark Screen



Student Mark

Confirmation

Are you sure you want to capture this Student Mark?

Yes

No

Capture

Cancel

Figure 76 Capture Student Mark Confirmation Screen

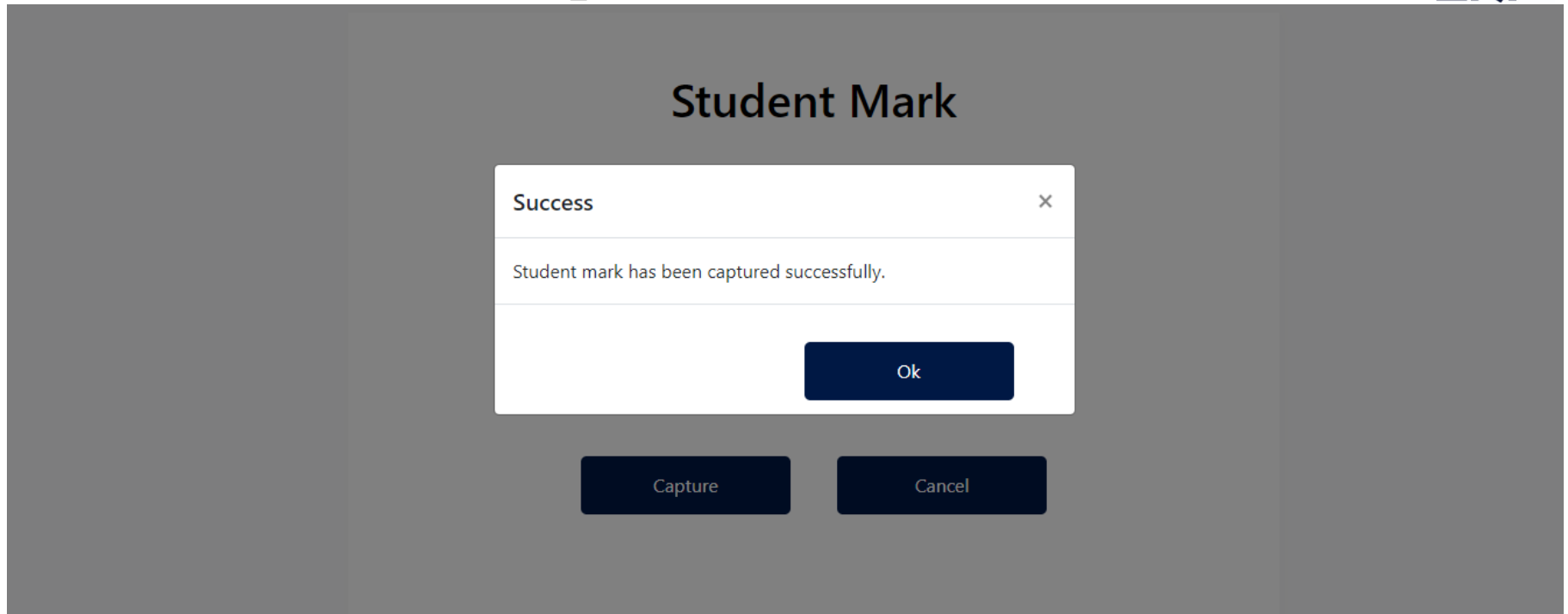


Figure 77 Student Mark Capture Success Screen



2.5.6 Mark Type Management Screen

Home School Administrator Log out

Mark Type Management

Mark Type	Action
Quarter Year	
Half Year	
Year	

Figure 78 Mark Type Management Screen



2.5.7 Create Mark Type Screen

Mark Type

Mark Type:

Create

Cancel

Figure 79 Create Mark Type 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 80 Create Mark Type Error Screen



Mark Type

Mark Type:

Confirmation

Are you sure you want to add this Mark Type?

Yes

No

Figure 81 Create Mark Type Confirmation Screen

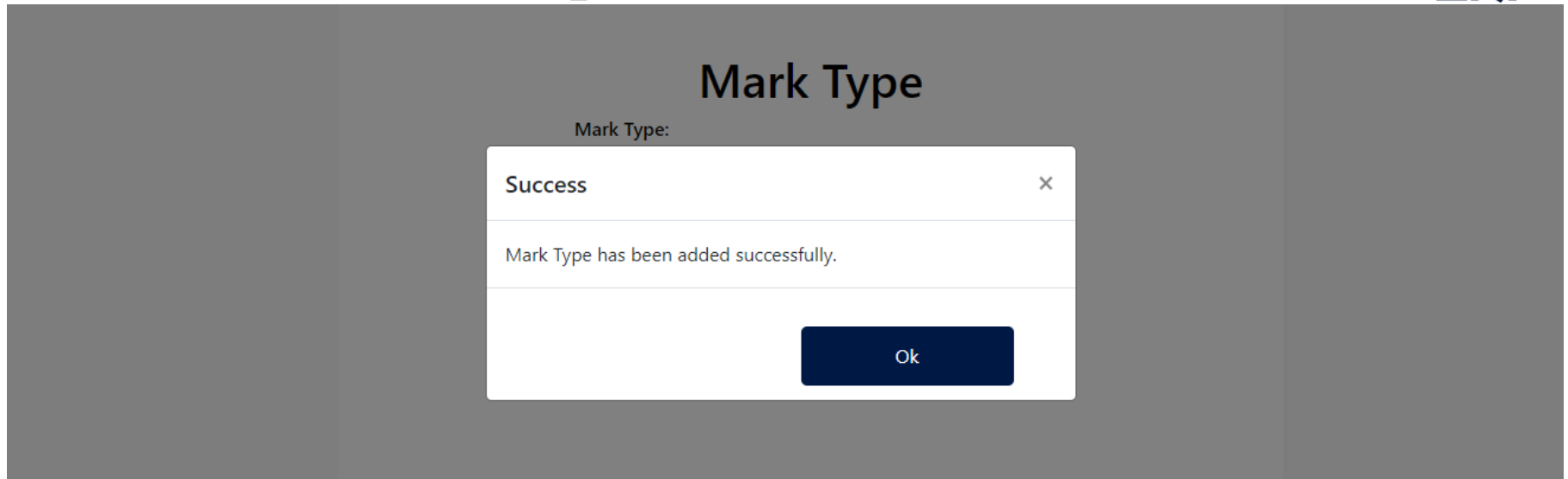


Figure 82 Create Mark Type Success Screen



2.5.8 View Mark Type Screen

Mark Type

Mark Type:

Half Year

Update

Delete

Figure 83 View Mark Type Screen



Mark Type

Confirmation

Are you sure you want to update this Mark Type?

Yes

No

Figure 84 Update Mark Type Confirmation Screen

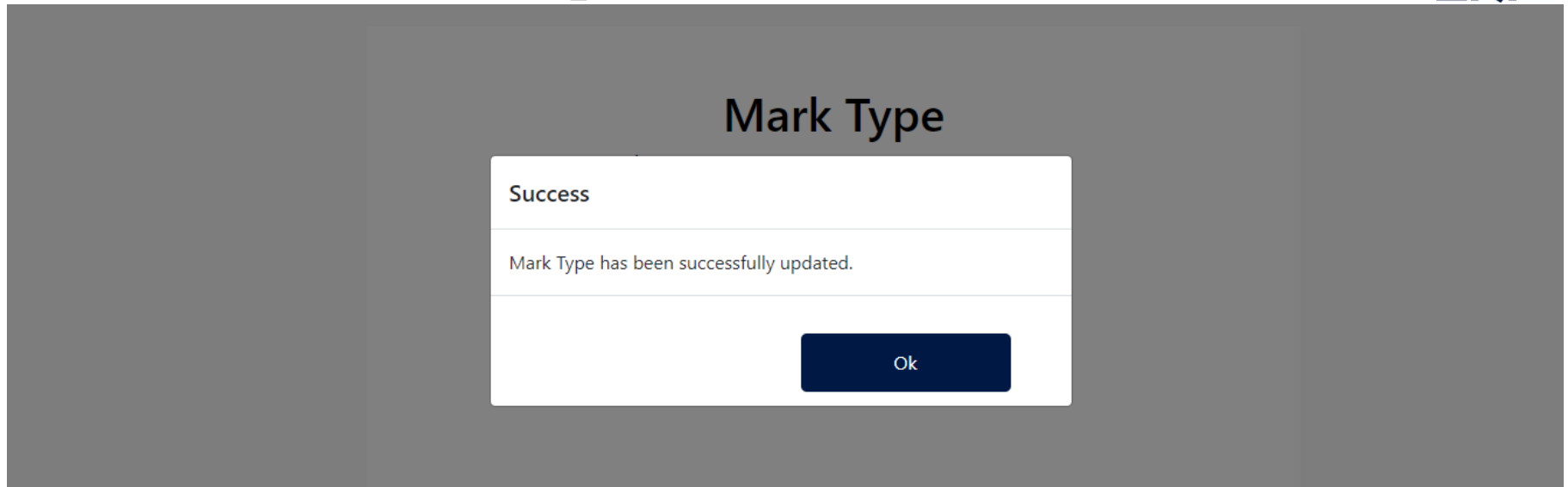


Figure 85 Mark Type Update Success Screen

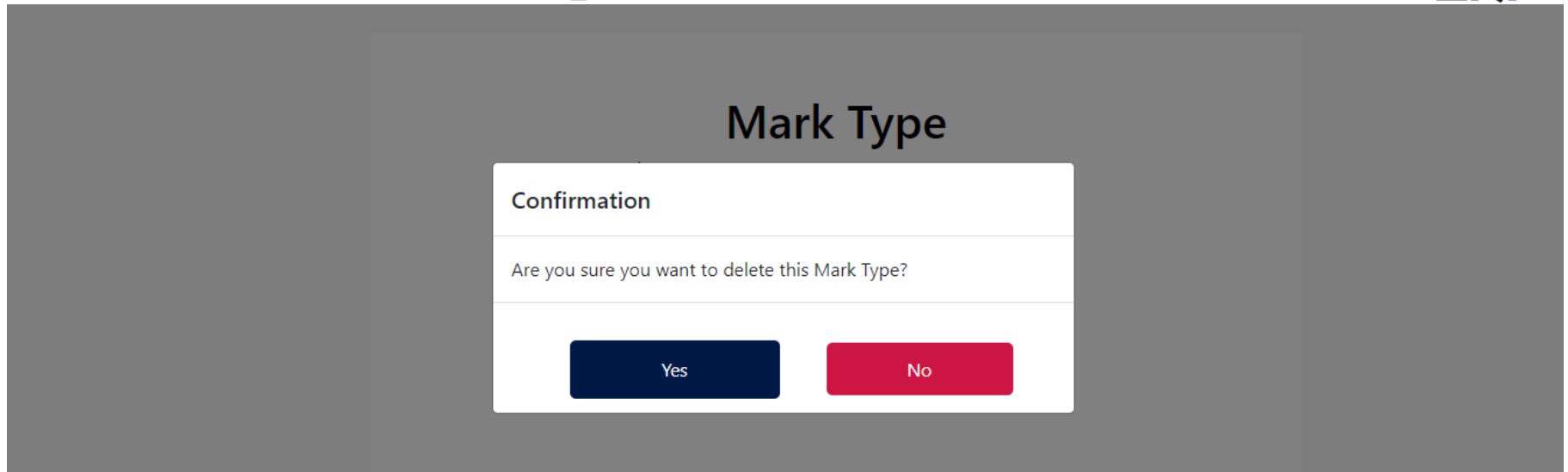


Figure 86 Delete Mark Type Confirmation Screen

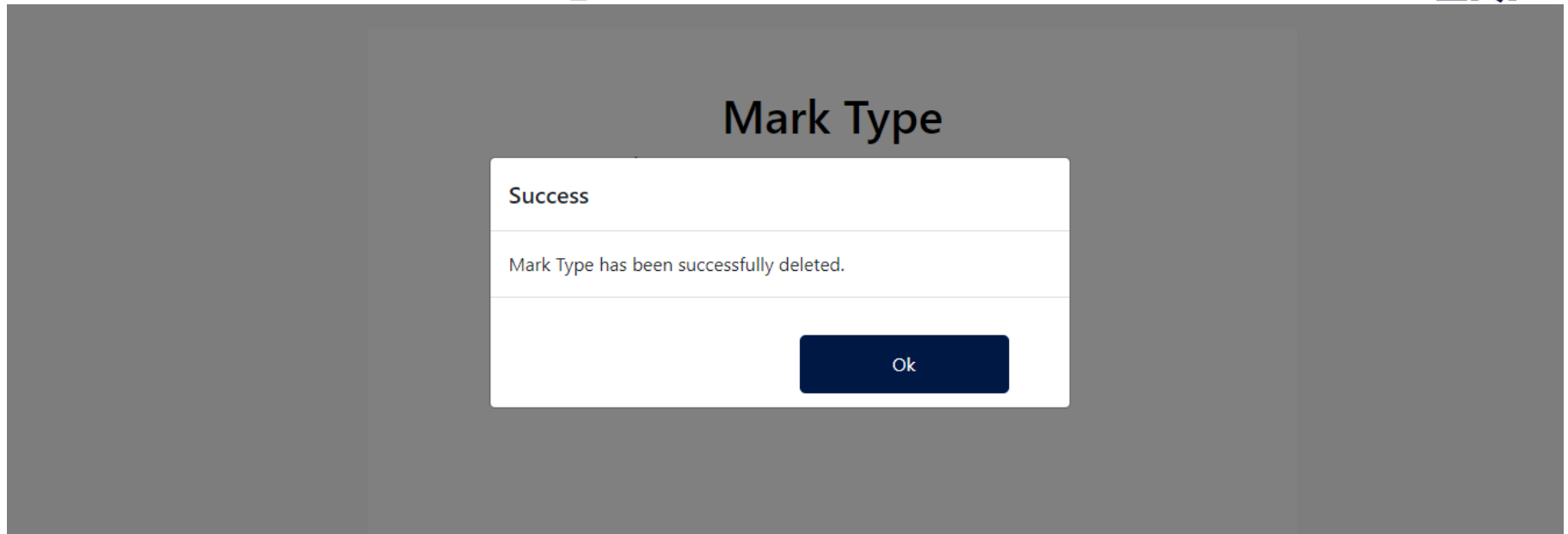


Figure 87 Mark Type Successfully Deleted Screen



2.6 Sub-System 5: Bicycle

2.6.1 Bicycle Management Screen

	Home	School Administrator ▾	Log out
Bicycle Managment Search Search			
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 88 Bicycle Management Screen



2.6.2 Create Bicycle Screen

Bicycle

Bicycle Code:

Bicycle Make:

CreateCancel

Figure 89 Create Bicycle Screen

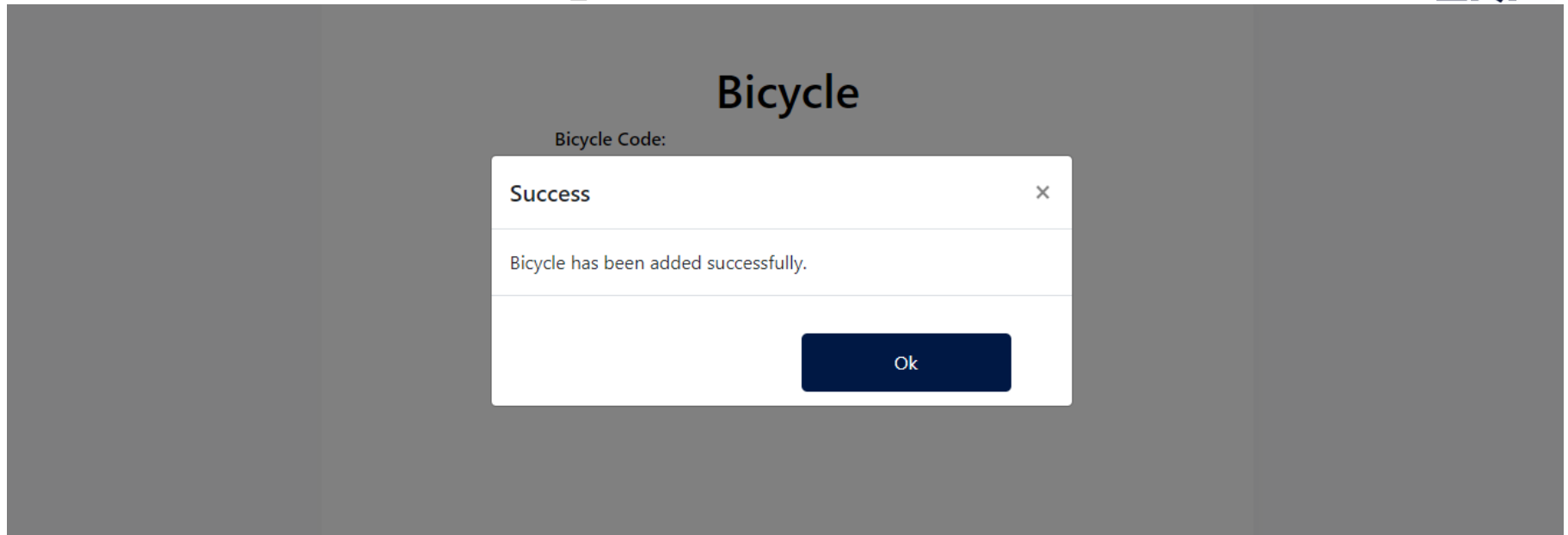


Figure 90 Create Bicycle Success Screen



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 91 Create Bicycle Error Screen

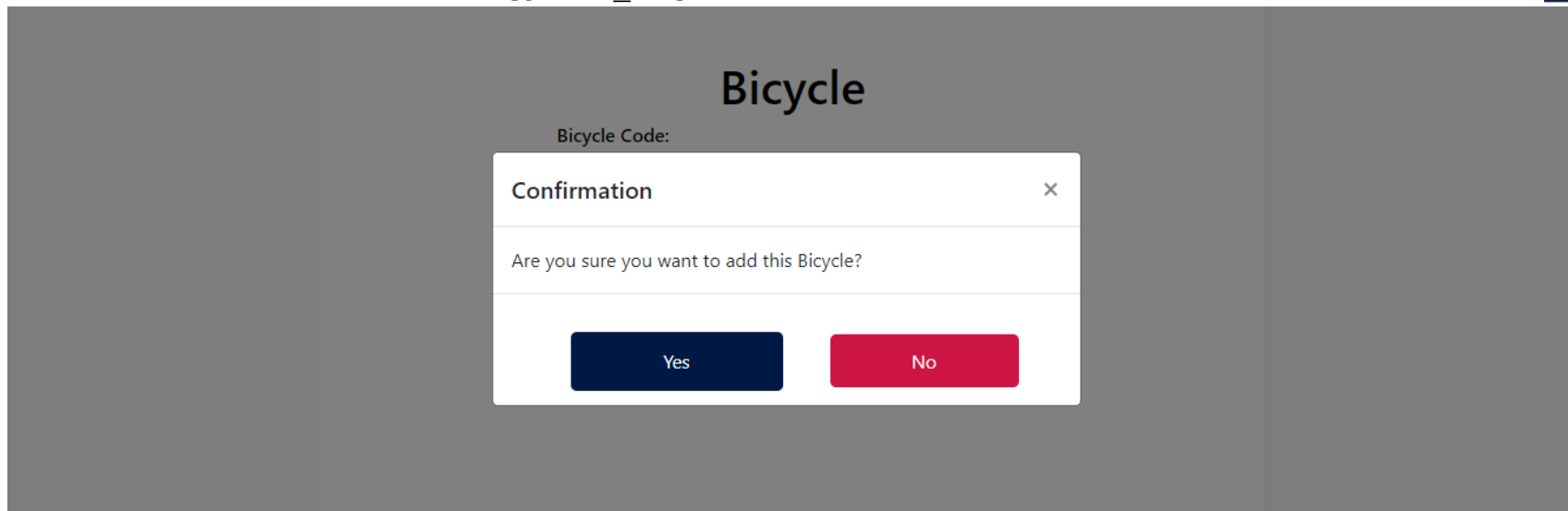


Figure 92 Create Bicycle Confirmation Screen

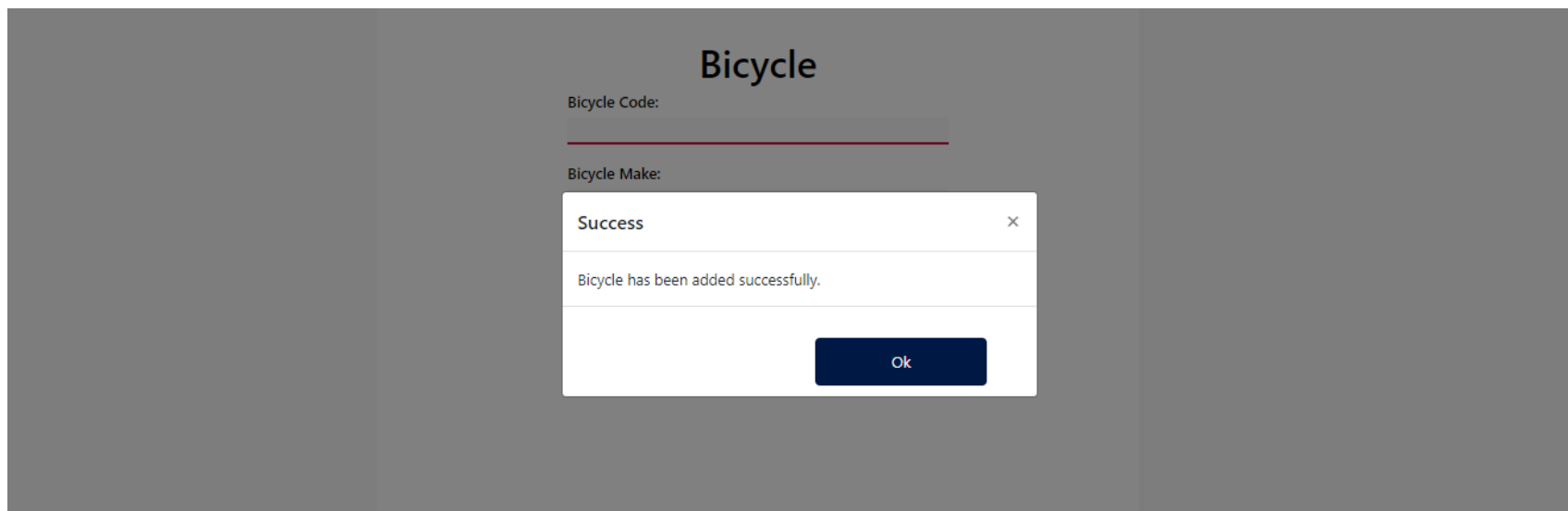


Figure 93 Create bicycle success notification



2.6.3

View Bicycle Screen

Bicycle

Bicycle Code:
101635

Bicycle Make:
Totem

Bicycle Status:
Available

Date Added:
2020/07/14

Update Delete

Figure 94 View Bicycle Screen



9/7/2020
#Bikes4ERP_VVS

Bicycle

Bicycle Code:

102659

Bicycle Make:

Please enter a Bicycle Make



Bicycle Status:

Available



Date Added:

2020/07/21



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

Update

Delete

Figure 95 View Bicycle Error Screen



Bicycle

Confirmation

Are you sure you want to delete this Bicycle?

Yes

No

Date Added:

yyyy/mm/dd

Update

Delete

Figure 96 Delete Bicycle Confirmation Screen

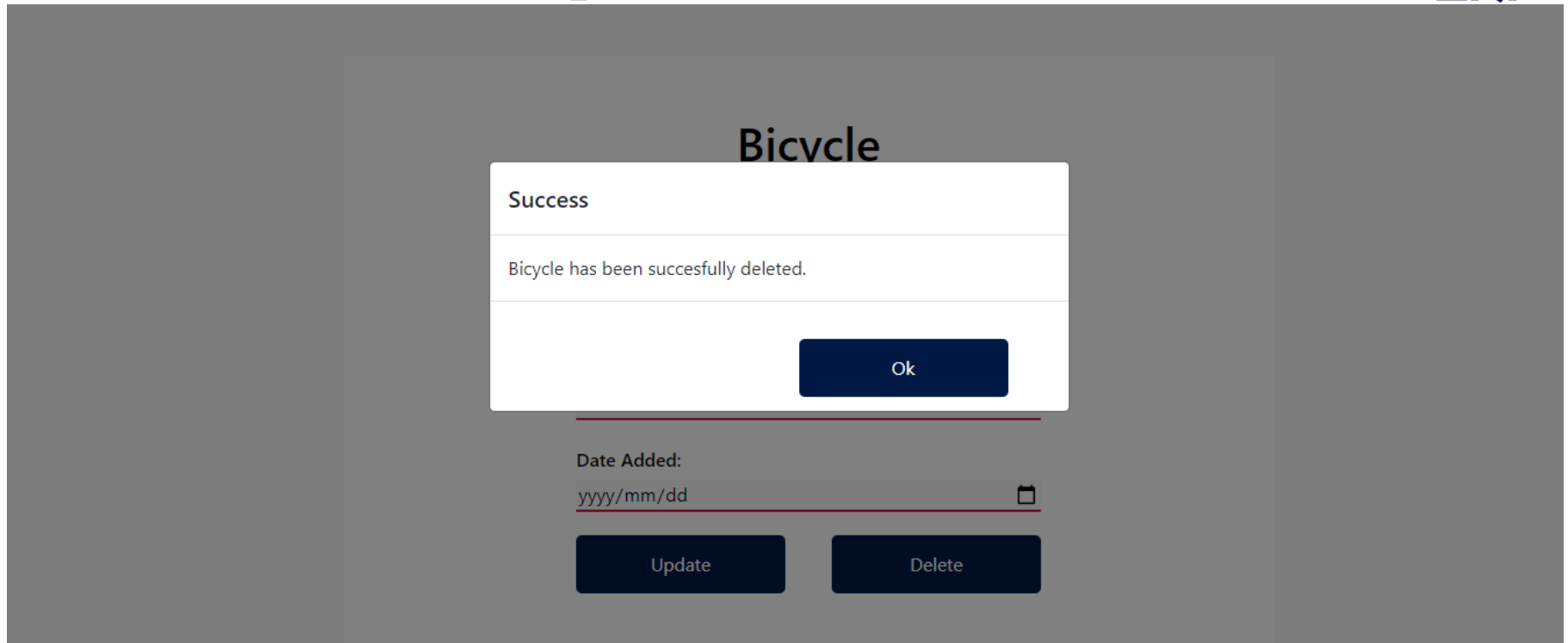


Figure 97 Delete Bicycle Success Screen



Bicycle

Confirmation

Are you sure you want to update this Bicycle?

Yes

No

Date Added:

yyyy/mm/dd

Update

Delete

Figure 98 Update Bicycle Confirmation Screen

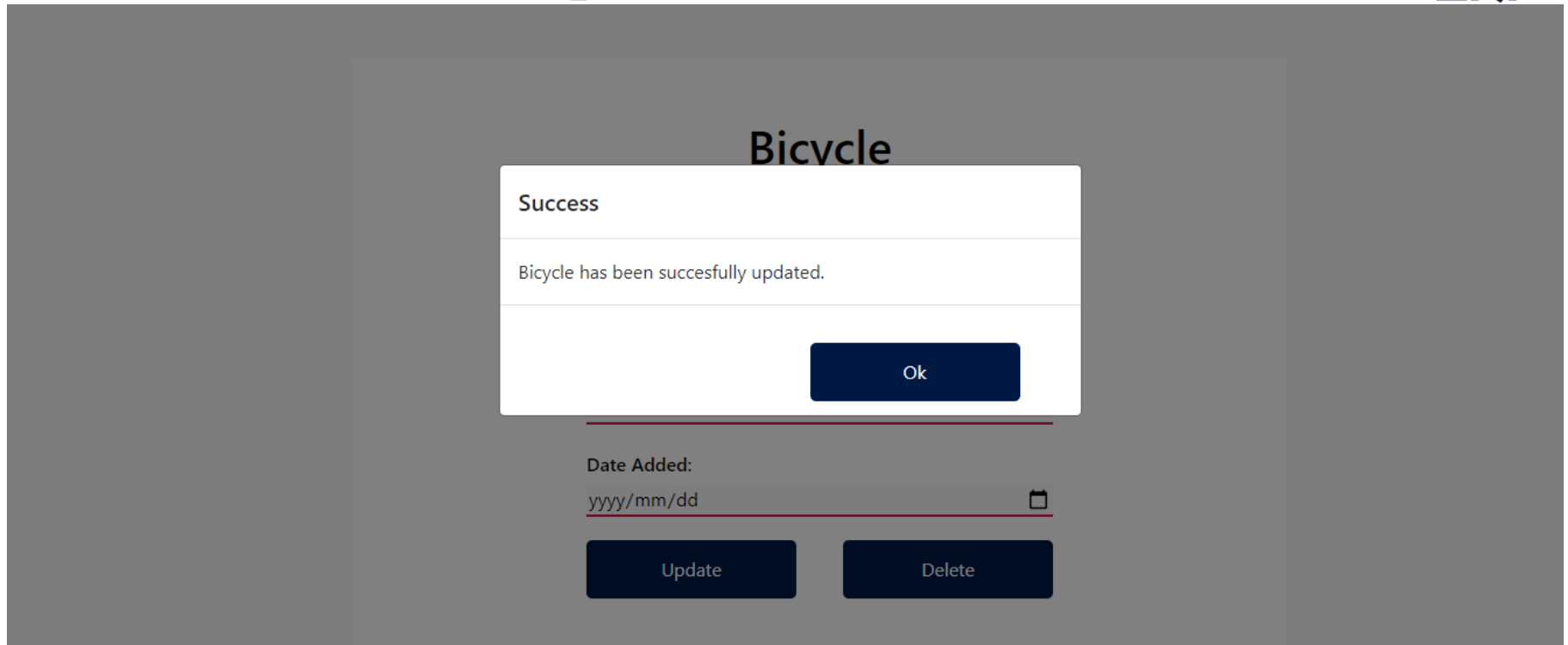


Figure 99 Bicycle Updated Success Screen



2.6.4 Bicycle Assignment Screen

Bicycle Assignment					
					Search
					Search
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	Tapi	Assigned	Unassign	
10258			Available	Assign	

Figure 100 Bicycle Assignment Screen



2.6.5 Assign Bicycle to Student Screen

Assign Bicycle to Student

Bicycle Code:
10789

Select Student to Assign:
Hanny Lee

Assign Cancel

Figure 101 Assign Bicycle to Student Screen



Assign Bicycle to Student

Bicycle Code:

Select Student to Assign:

Select

Please select a Student to assign the Bicycle to. ✕

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

Assign Cancel

Figure 102 Assign Bicycle to Student Error Screen



Assign Bicycle to Student

Bicycle Code:

Select Student to Assign:

Confirmation

Are you sure you want to assign this Bicycle?

Yes

No

Figure 103 Assign Bicycle Confirmation Screen

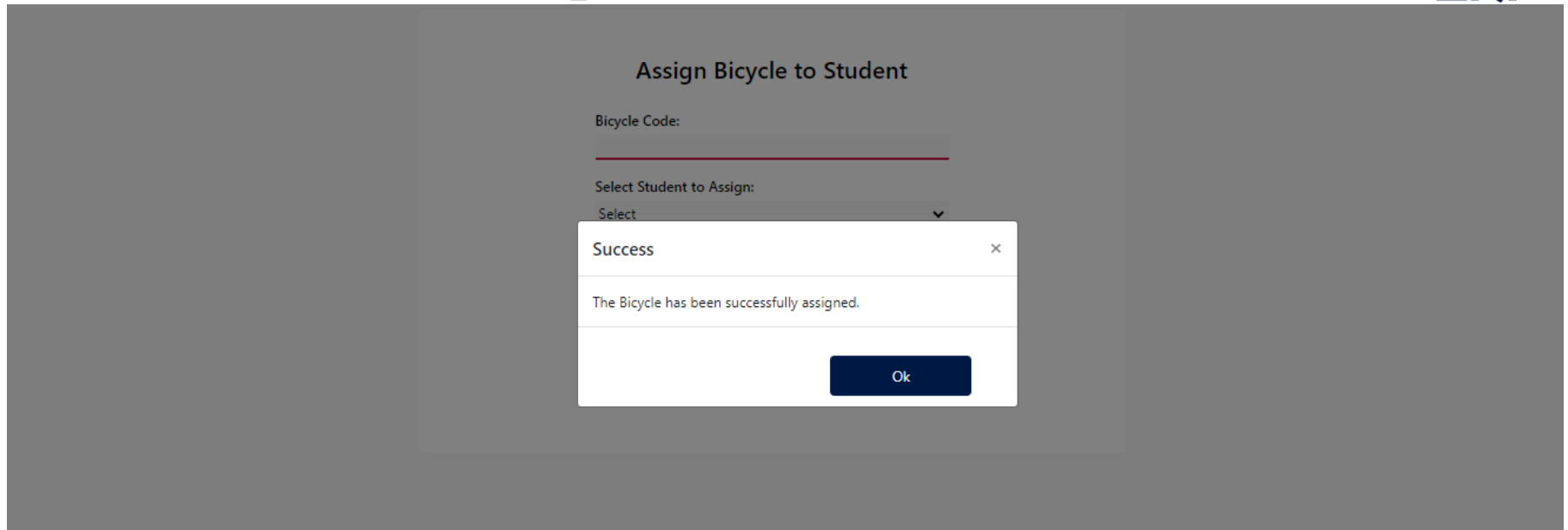


Figure 104 Successful Assigned Screen



2.6.6 Unassign Bicycle from Student Screen

Bicycle Assignment					
					Search
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	

Confirmation

Are you sure you want to unassign this Bicycle?

Yes No

Figure 105 Unassign Bicycle Confirmation Screen



Bicycle Assignment					Search	Search
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		

Success

The Bicycle has been successfully unassigned.

Ok

Figure 106 Unassign Bicycle Success Screen



2.6.7 Tag Assignment Screen

Tag Assignment				Search	Search
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 107 Tag Assignment Screen



2.6.8 Assign Tag to Bicycle Screen

Assign Tag to Bicycle

Tag Serial Number:
56369

Select Bicycle to Assign:
103697

Assign Cancel

Figure 108 Assign Tag to Bicycle Screen



Assign Tag to Bicycle

Tag Serial Number:
10369

Select Bicycle to Assign:
Select

Please select a Bicycle to assign the Tag to. ✕

Error! There was an issue assigning the Tag. Please try again.

Assign Cancel

Figure 109 Assign Tag to Bicycle Error Screen



Assign Tag to Bicycle

Tag Serial Number:

Select Bicycle to Assign:

Select

Confirmation

Are you sure you want to assign this Tag?

Yes

No

Figure 110 Assign Tag Confirmation Screen

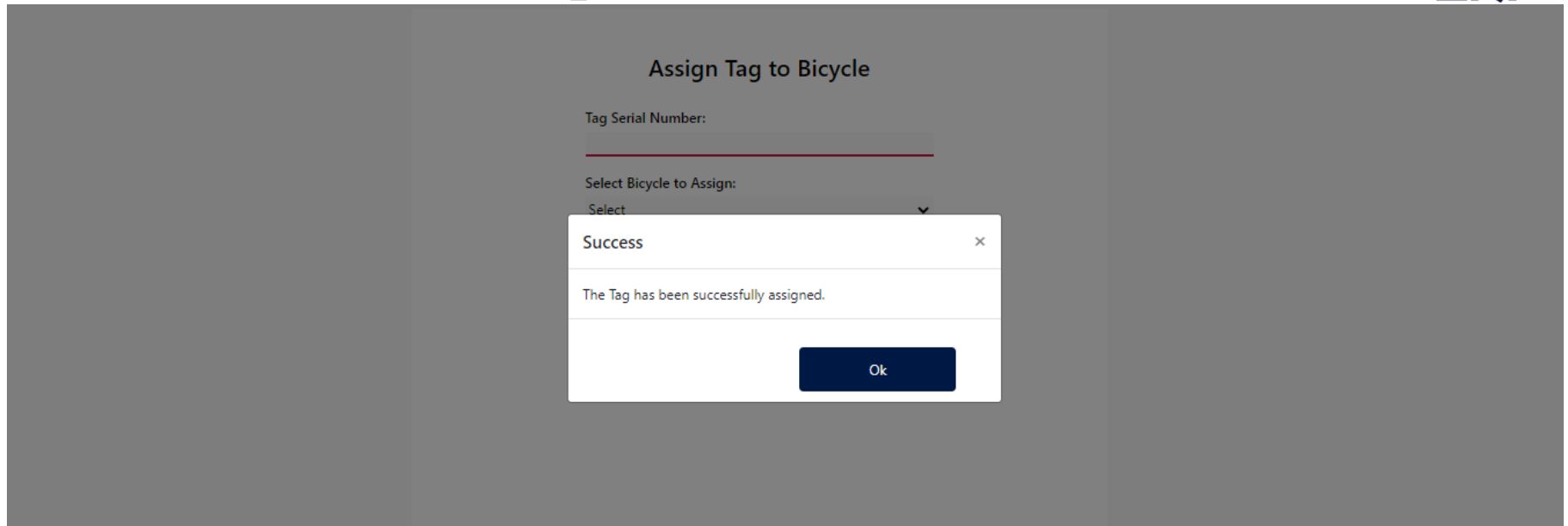


Figure 111 Tag Assigned Success Screen



9/7/2020

#Bikes4ERP_VVS



2.6.9 Unassign Tag from Bicycle Screen

Tag Assignment				Search	Search
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?

Yes No

Figure 112 Unassign Tag Confirmation Screen



Tag Assignment				Search	Search
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 succesfully unassigned .

Ok

Figure 113 Tag Unassigned Successful



2.7 Sub-System 6: Bicycle Part

2.7.1 Bicycle Part Management Screen

 [Home](#) [Administrator Management](#) [Systems Management](#) [?](#) [Log out](#) 

Bicycle Part Management

+

Search

Search

Part Name	Part Description	Bicycle Section	Action
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 114 Bicycle Part Management Screen



2.7.2 Create Bicycle Part Screen

Bicycle Part



Part Name:

Part Description:

Bicycle Section:

Figure 115 Create Bicycle Part Screen



Bicycle Part



Part Name:

Please enter a Name ×

Part Description:

Not sure but it moves things

Bicycle Section:

Front Wheel ▼

Error! There was a problem creating a new Bicycle Part. Please try again ×

Create PartCancel

Figure 116 Create Bicycle Part Error Screen



Bicycle Part

Part Name:

Chain

Confirmation

Are you sure you want to add this Bicycle Part?

Yes

No

Figure 117 Create Bicycle Part Confirmation



Bicycle Part



Part Name:

Part Description:

Success

Bicycle Part has been added successfully.

Ok

Figure 118 Create Bicycle Part Success Screen



2.7.3

View Bicycle Part Screen

Bicycle Part



Part Name:
Chain

Part Description:
Moves the wheels together

Bicycle Section:
Body

Update Delete

Figure 119 View Bicycle Part Screen



Bicycle Part

Part Name:
Chain

Confirmation

Are you sure you want to update this Bicycle Part?

Yes

No

Figure 120 Update Bicycle Part Confirmation Screen



Bicycle Part



Part Name:
Chain

Part Description:

Success

Bicycle Part has been updated successfully.

Ok

Figure 121 Bicycle Part Updated Success Screen

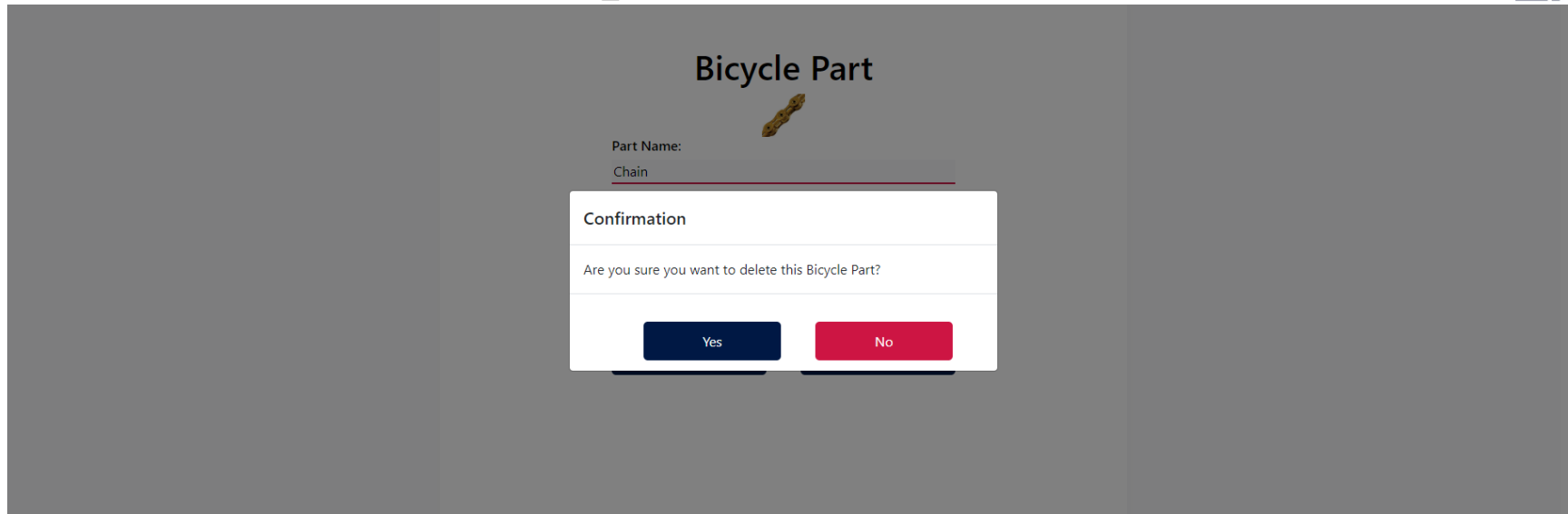


Figure 122 Delete Bicycle Part Confirmation Screen

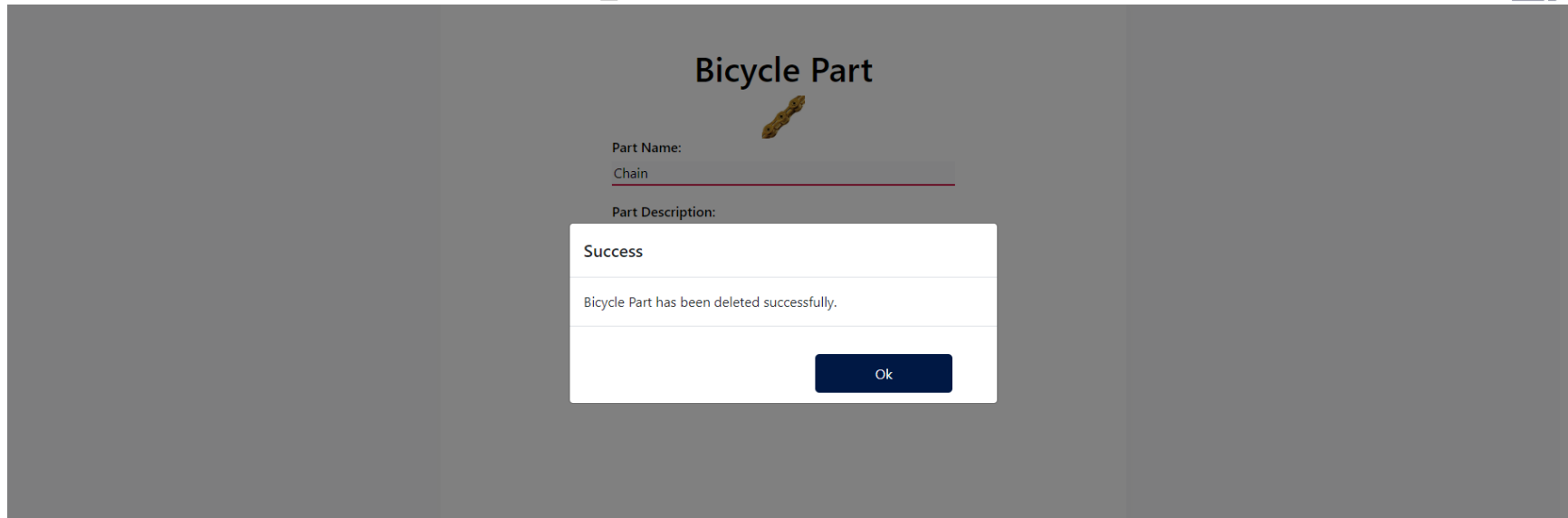


Figure 123 Bicycle Part Deleted Success Screen



2.7.4 Bicycle Section Management Screen

 Home Administrator Management ▾ Systems Management ▾ ? Log out 

Bicycle Section Management 

Search

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 124 Bicycle Section Management Screen



2.7.5 Create Bicycle Section Screen

Bicycle Section



Section Name:

Section Description:

Create SectionCancel

Figure 125 Create Bicycle Section Screen



Bicycle Section



Section Name:

Please enter a Name

×

Section Description:

Connects all the Sections together

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

×

Create Section

Cancel

Figure 126 Create Bicycle Section Error Screen



Bicycle Section



Section Name:
Body

Confirmation

Are you sure you want to add this Bicycle Section?

Yes

No

Figure 127 Create Bicycle Section Confirmation Screen



Bicycle Section



Section Name:

Section Description:

Success

Bicycle Section has been added successfully.

Ok

Figure 128 Bicycle Section Created Success Screen



2.7.6 View Bicycle Section Screen

Bicycle Section



Section Name:
Body

Section Description:
Connects all the sections together

UpdateDelete

Figure 129 View Bicycle Section Screen



Bicycle Section



Section Name:

Body

Confirmation

Are you sure you want to update this Bicycle Section?

Yes

No

Figure 130 Update Bicycle Section Confirmation Screen



Bicycle Section



Section Name:
Body

Section Description:

Success

Bicycle Section has been updated successfully.

Ok

Figure 131 Bicycle Section Updated Success Screen

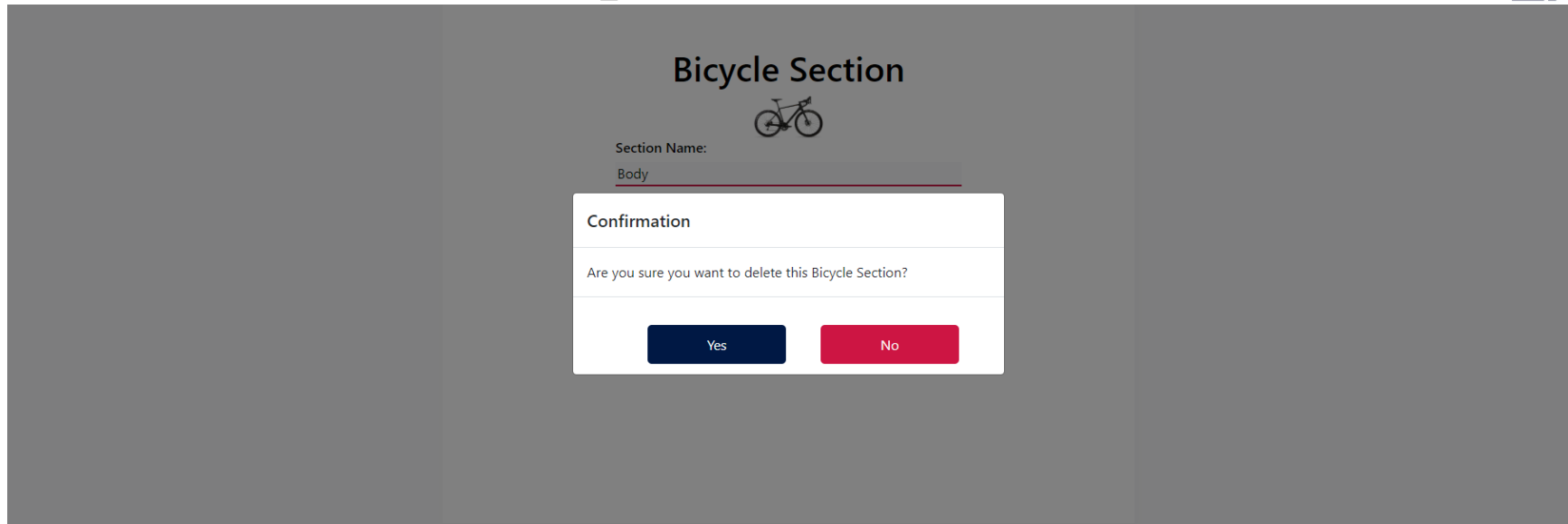


Figure 132 Delete Bicycle Section Confirmation Screen

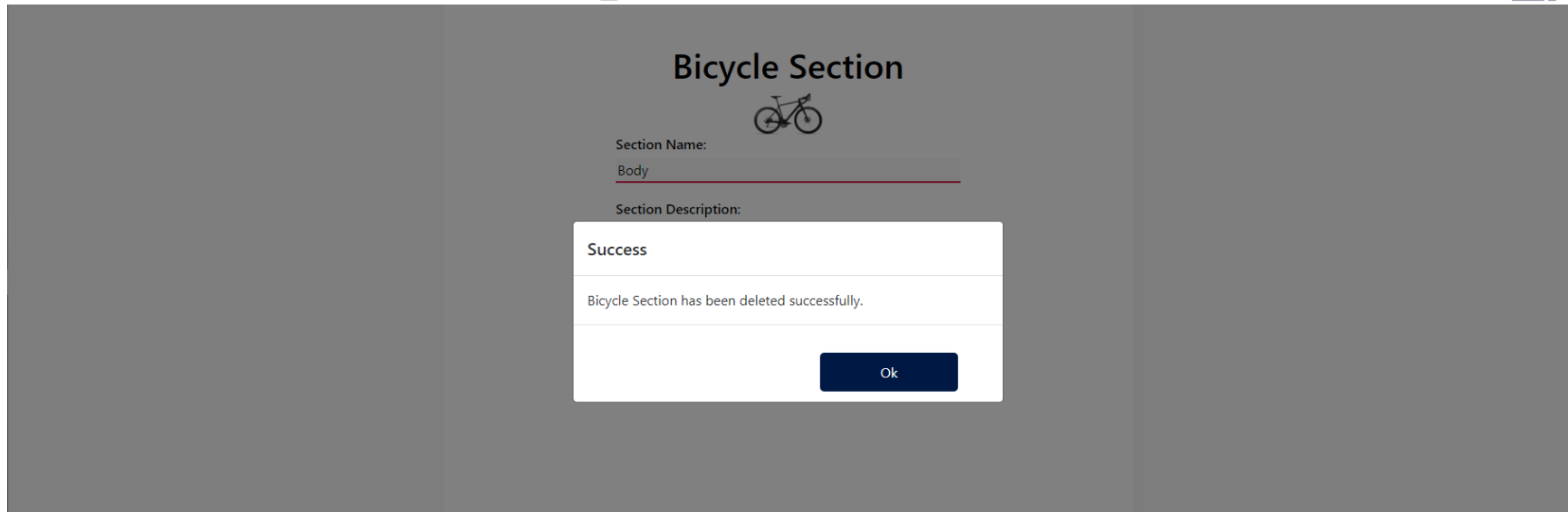


Figure 133 Bicycle Section Deleted Success Screen



2.8 Sub-system 7: Tracking Sub-system

2.8.1 Search Log Entry Screen

Log 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 134 Search Log Entry Screen



2.8.2 Route management Screen

Route			
Route ID	School Name	Action	
89312	John's School		
22132	John's School		
12312	John's School		
42425	Ann's School		
56323	Ann's School		
63241	John's School		

Figure 135 Route Management Screen



2.8.3 Create Route Screen

Route

School:

--Select--

Antenna A:

Antenna Position:

Antenna ID:

--Select--

Antenna B:

Antenna Position:

Antenna ID:

--Select--

Add Antenna

Create

Cancel

Figure 136 Create Route 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

Figure 137 Create Route Error Screen



Antenna ID:

1

Confirmation

Are you sure you want to create a new Route?

Yes No

2

Add Antenna Create

Figure 138 Create Route Confirmation Screen

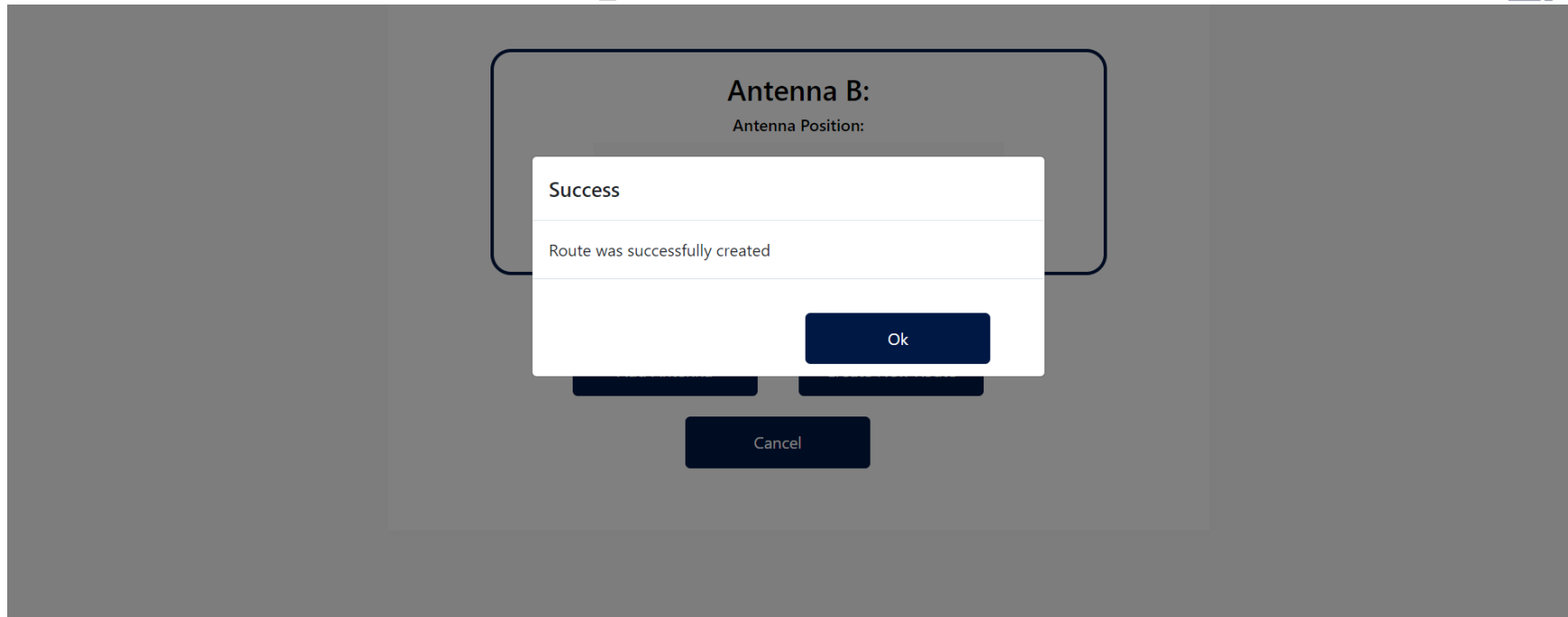


Figure 139 Route Successfully Created Screen



2.8.4 View Route Screen

Route

School:

John's school

Antenna A:

Antenna Position:

Antenna ID:

1

Antenna B:

Antenna Position:

Antenna ID:

2

Add Antenna

Update

Delete

Figure 140 View Route Screen



Update

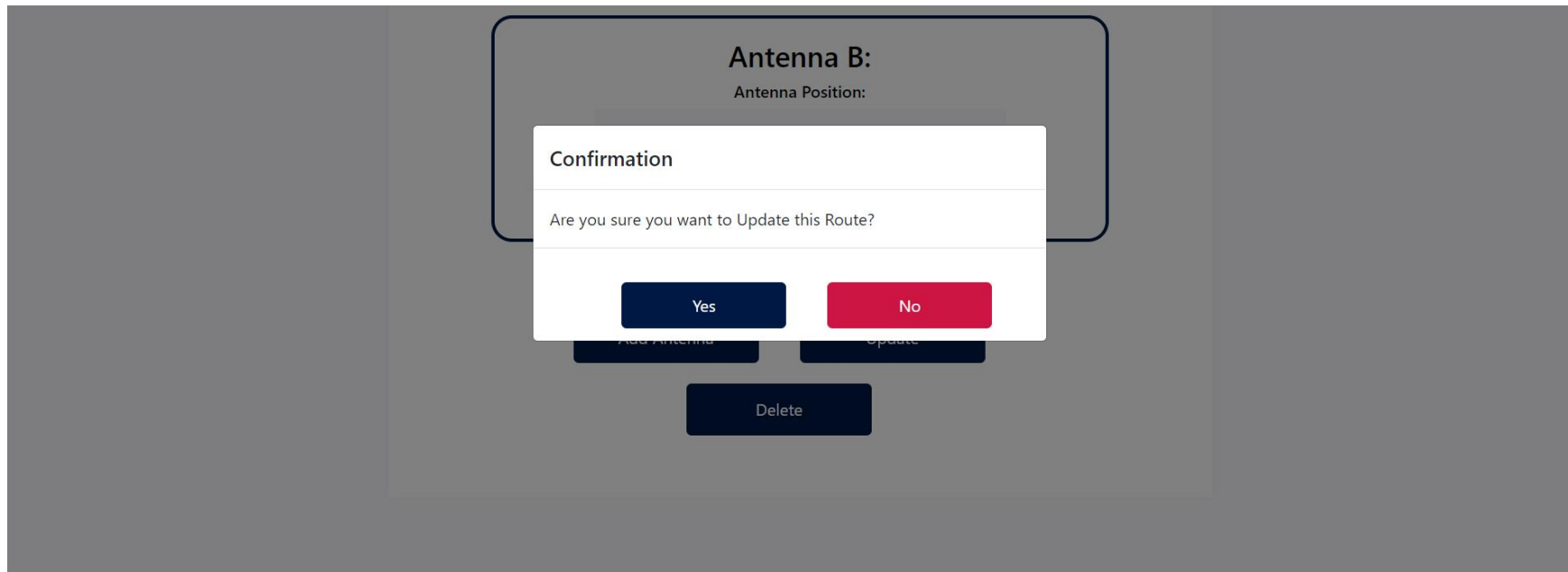


Figure 141 Update Route Confirmation Screen

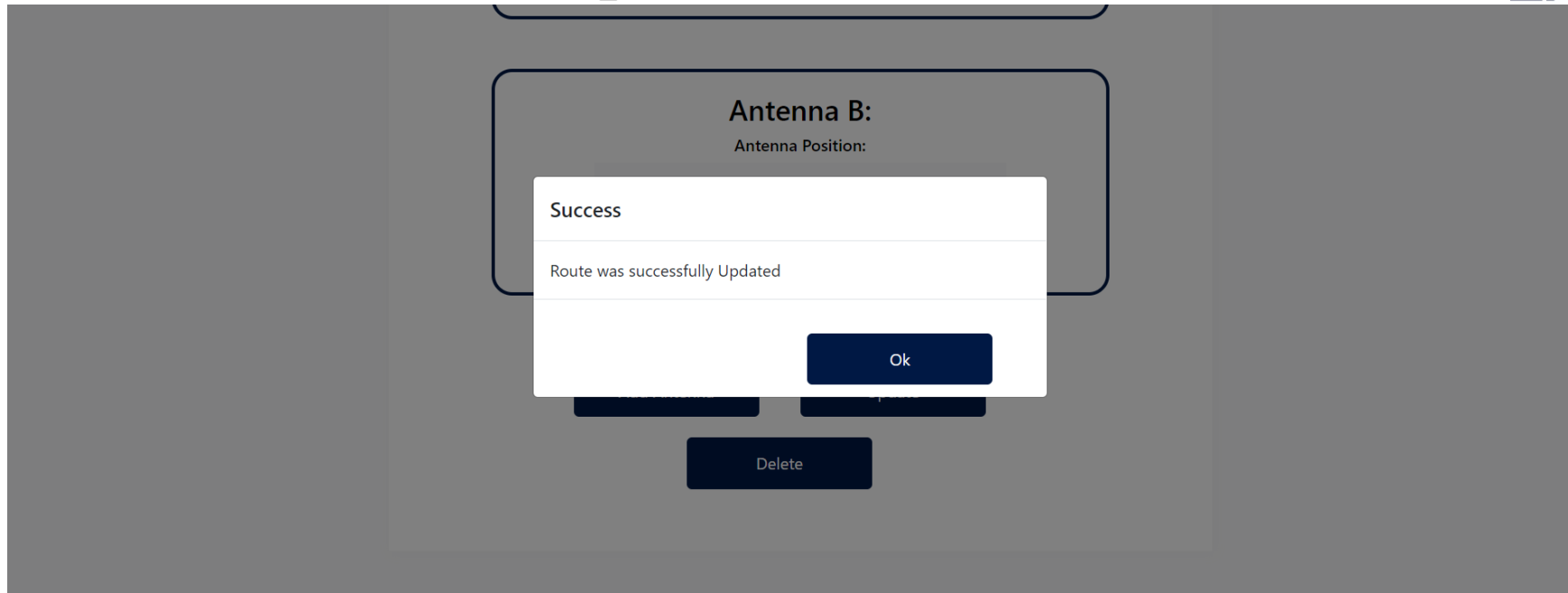


Figure 142 Route Successfully Updated Screen



Delete

Antenna ID: 1

Confirmation

Are you sure you want to Delete this Route?

Yes No

Add Antenna Update Delete

Figure 143 Delete Route Confirmation Screen

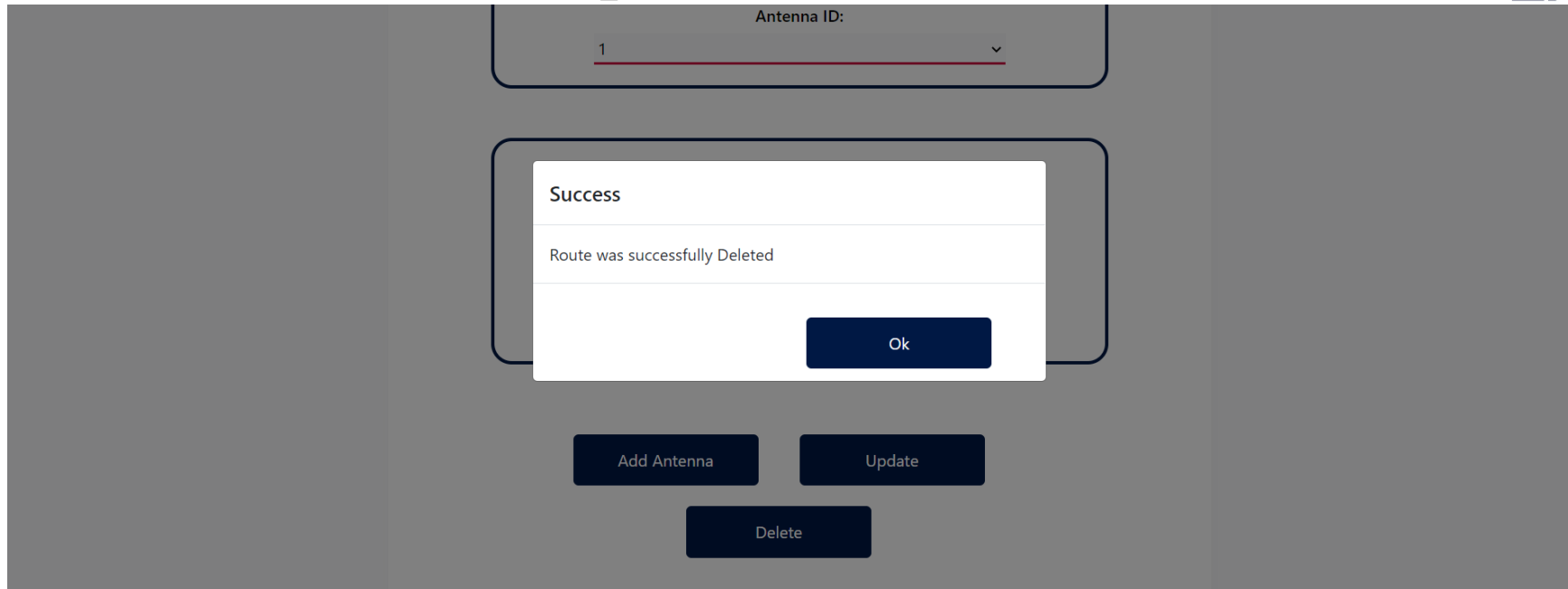


Figure 144 Route Successfully Deleted Screen



2.9 Sub-system 8: Job Tasks Sub-system

2.9.1 Fault Task Management Screen

The screenshot shows a web application interface for 'Fault Task Management'. At the top is a dark red navigation bar with the ERP logo, 'Home', 'Administrator Management', 'Systems Management', a help icon, 'Log out', and a user profile icon. Below the navigation bar is a white header area with the title 'Fault Task', a plus icon in a circle, and a search bar with a 'Search' button. The main content area is a table with three columns: 'Fault Task', 'Fault Task Description', and 'Action'. The table contains six rows of data, each with a fault task, its description, and an edit icon (pencil).

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 145 Fault Task Management Screen



2.9.2 Create Fault Task Screen

Fault Task

Fault Task:
Bike Shattered

Fault Task Description:
There are cracks on the frame which could lead to it shat

Create Cancel

Figure 146 Create Fault Task Screen



Fault Task

Fault Task:

Please enter a Fault Task ×

Fault Task Description:

a test description

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

CreateCancel

Figure 147 Create Fault Task Error Screen



Fault Task

Confirmation

Are you sure you want to create a new Fault Task?

Yes

No

Create

Cancel

Figure 148 Create Fault Task Confirmation Screen

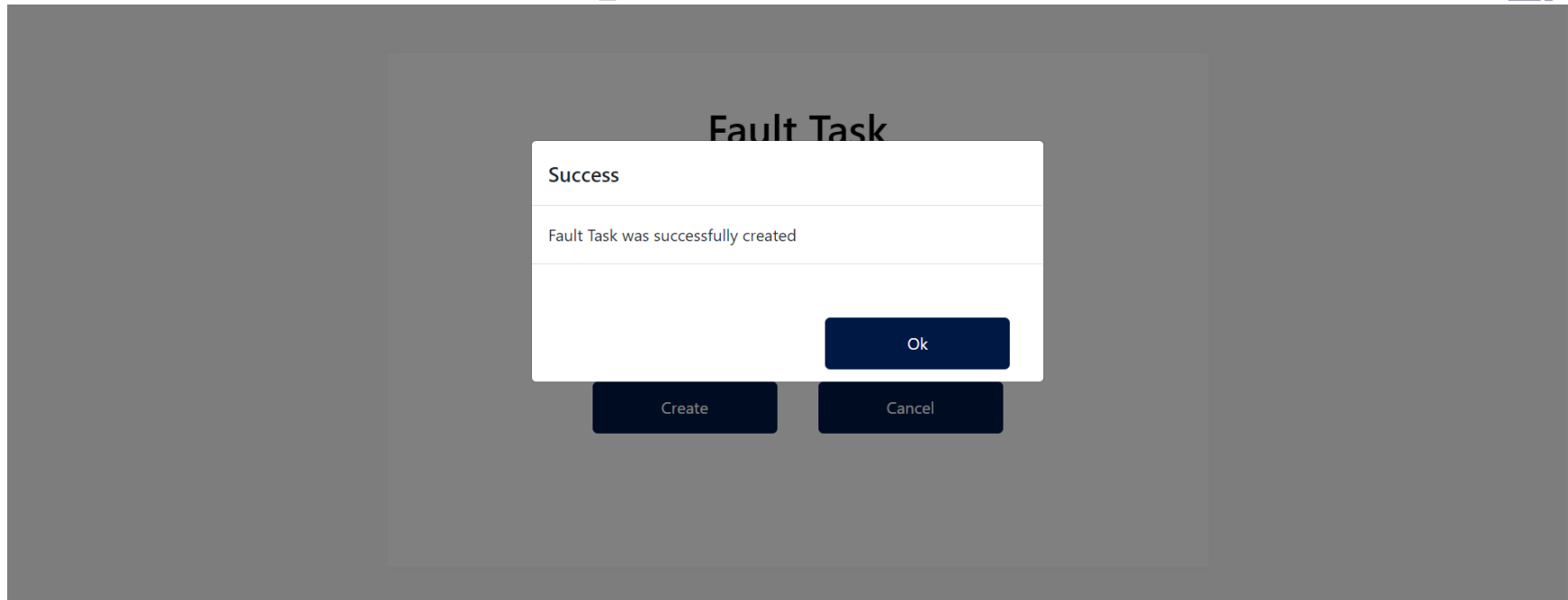


Figure 149 Fault Task Successfully Created Screen



2.9.3 View Fault Task Screen

Fault Task

Fault Task:

Punctured Tire

Fault Task Description:

The Tire has been punctured

Update Delete

Figure 150 View Fault Task Screen



Update:

Fault Task

Confirmation

Are you sure you want to Update this Fault Task?

Yes

No

Update

Delete

Figure 151 Update Fault Task Confirmation Screen

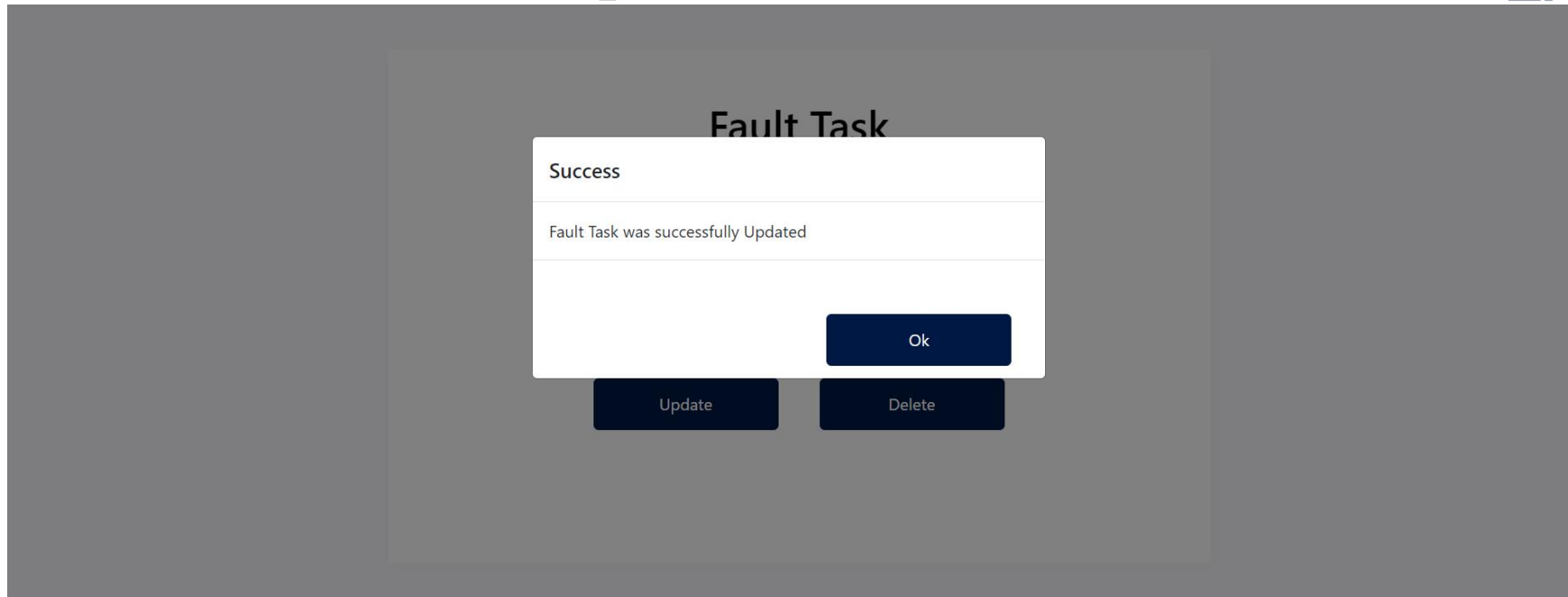


Figure 152 Fault Task Successfully Updated Screen



Delete:

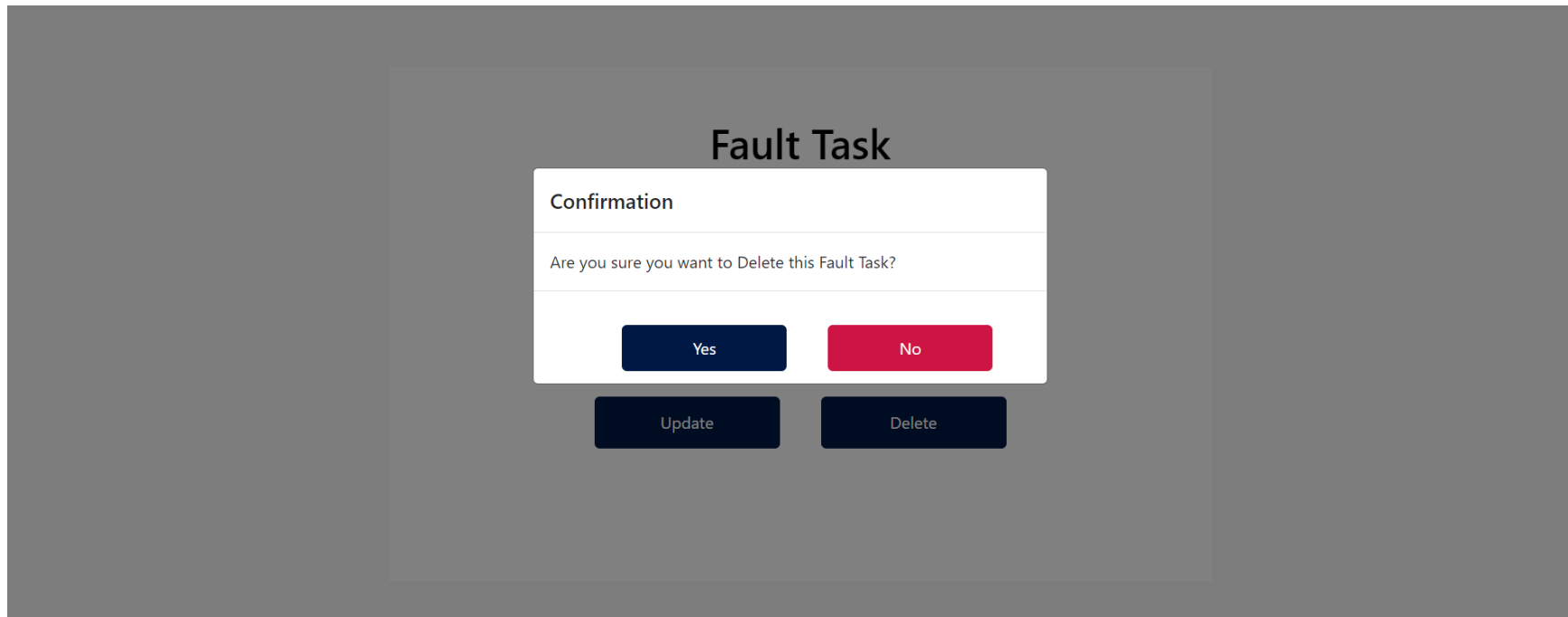


Figure 153 Delete Fault Task Confirmation Screen

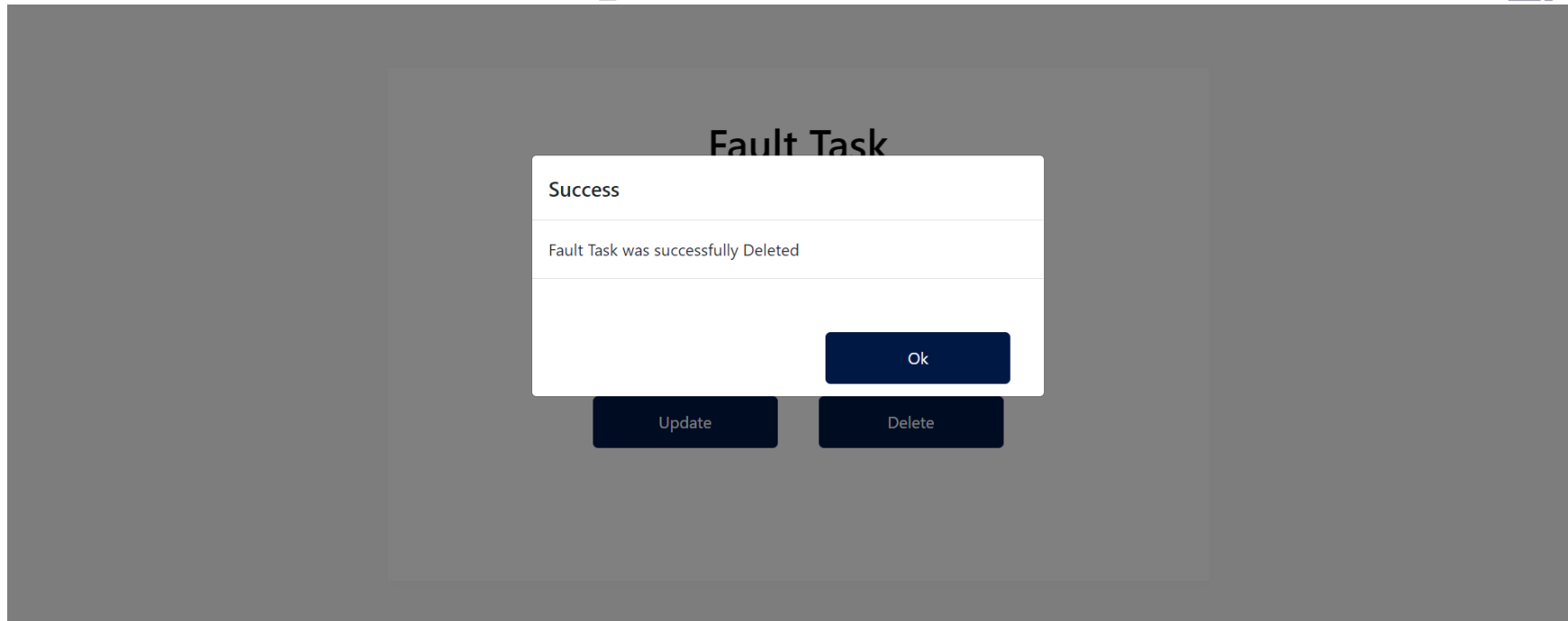


Figure 154 Fault Task Successfully Deleted Screen



2.9.4 Maintenance Task Management Screen

Maintenance Task			
Maintenance Task	Maintenance Task Description		Action
Pump up Tyre	Use pump to inflate bicycle tyre		
Oil chain	Lightly grease chain with chain fluid		
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 155 Maintenance Task Management Screen



2.9.5 Create Maintenance Task Screen

Maintenace Task

Maintenance Task:

Oil Chain

Maintenance Task Description:

The mechanic reapplies oil to the Bicycle Chain

Create Cancel

Figure 156 Create Maintenance Task 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 ×

CreateCancel

Figure 157 Create Maintenance Task Error Screen

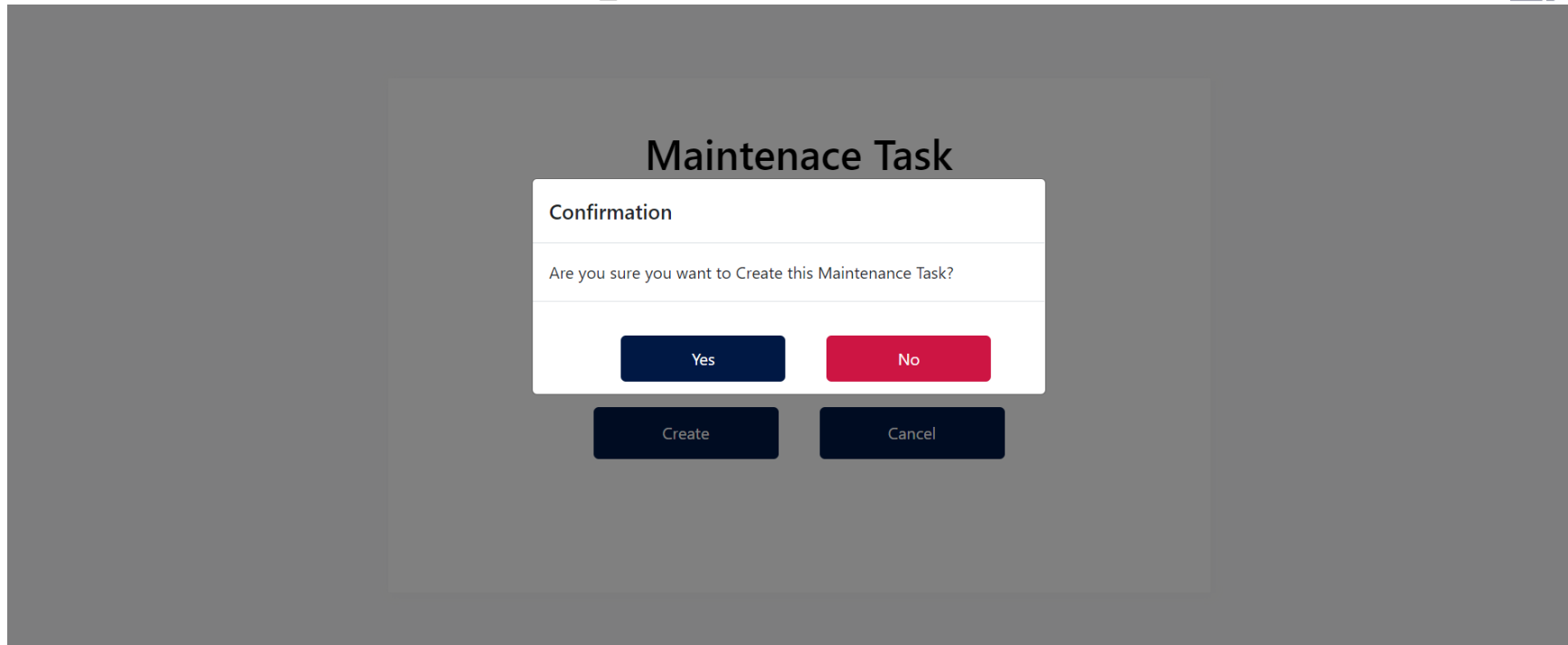


Figure 158 Create Maintenance Task Confirmation Screen

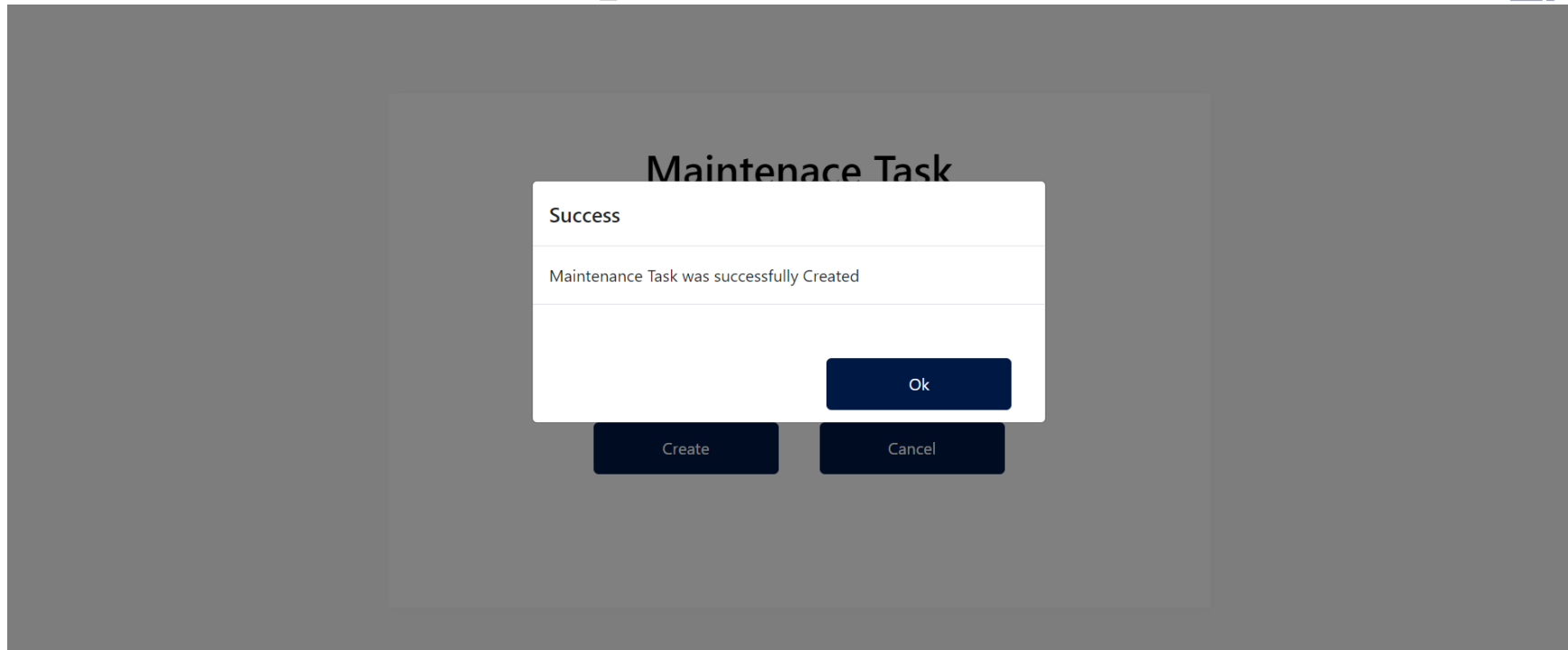


Figure 159 Maintenance Task Successfully created Screen



2.9.6 View Maintenance Task Screen

Maintenace Task

Maintenance Task:

Oil Chain

Maintenance Task Description:

Mechanic needs to re-apply oil onto the chain

Update Delete

Figure 160 View Maintenance Task Screen



Update:

Maintenance Task

Confirmation

Are you sure you want to Update this Maintenance Task?

Yes No

Update Delete

Figure 161 Update Maintenance Task Screen

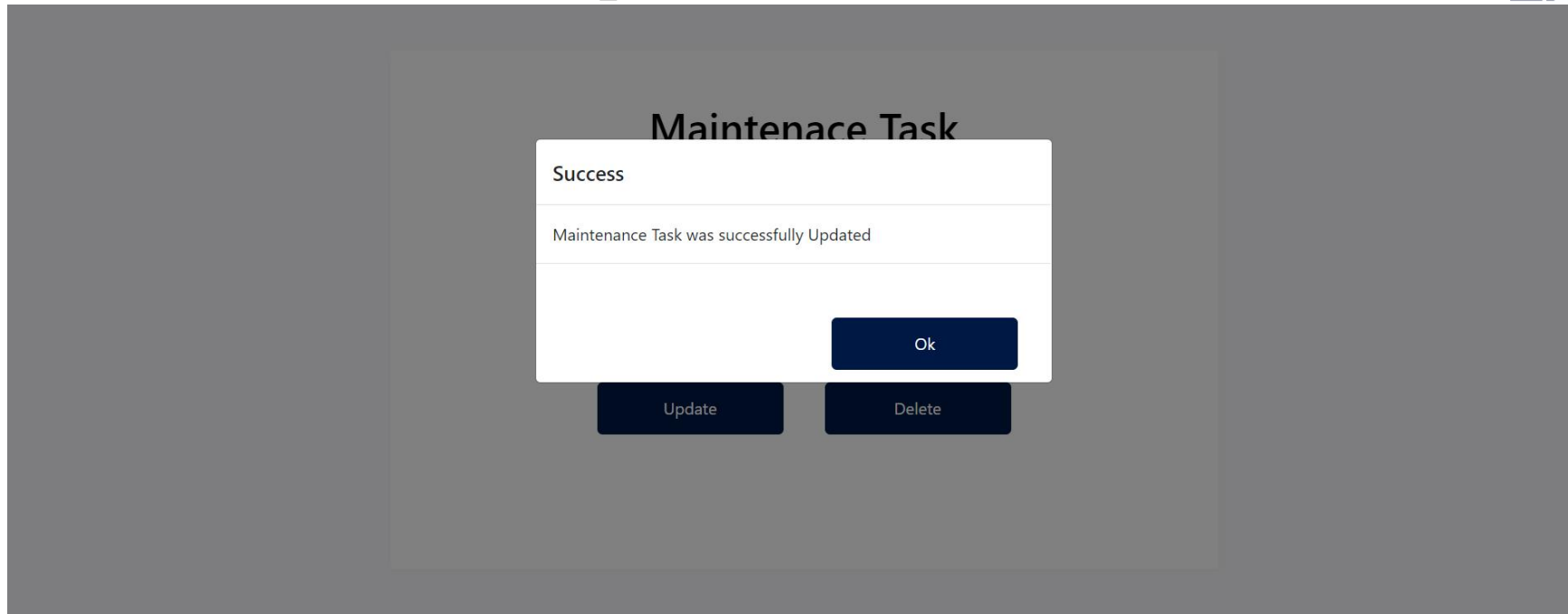


Figure 162 Maintenance Task Successfully Updated Screen



Delete:

Maintenance Task

Confirmation

Are you sure you want to Delete this Maintenance Task?

Yes

No

Update

Delete

Figure 163 Delete Maintenance Task Confirmation Screen

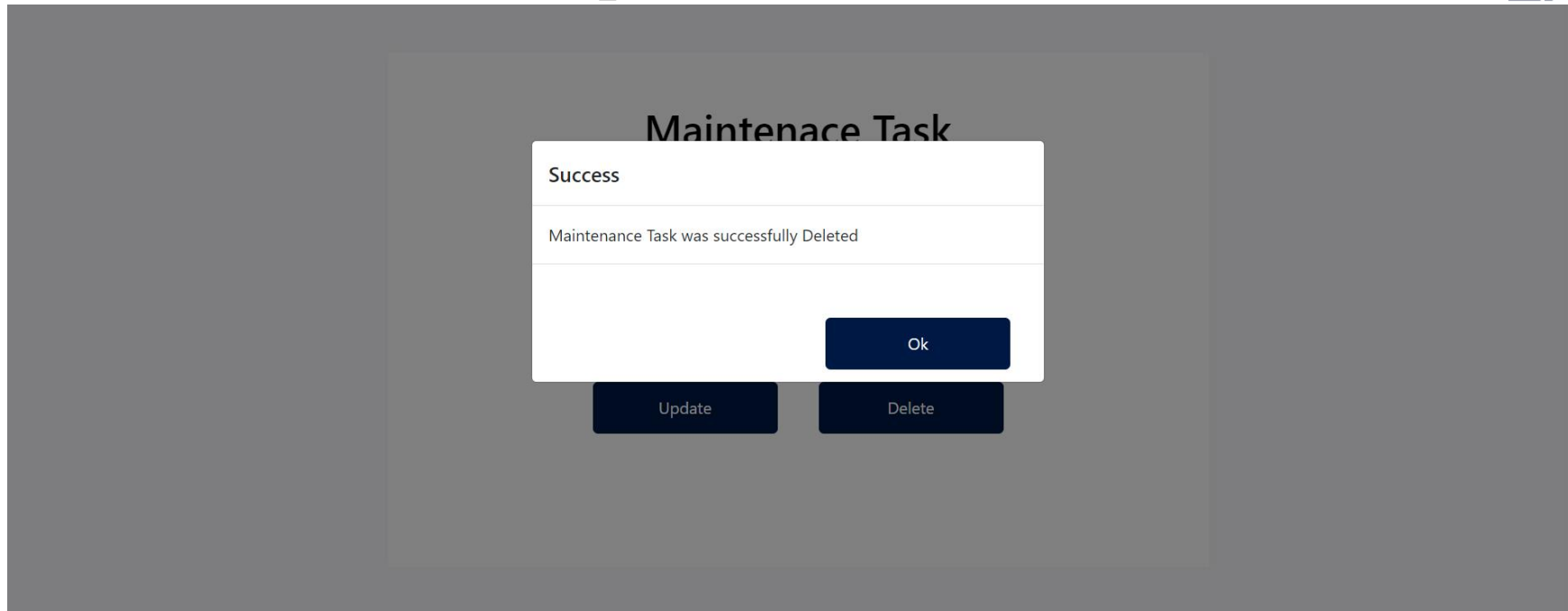


Figure 164 Maintenance Task was Successfully Deleted Screen



2.10 Sub-System 9: School

2.10.1 School Management Screen

School Management			 Search	Search
School Name	Village	Action		
Chemhanza Primary School	Mupandira			
Zengeza 5 Primary School	Zengeza			
Pretoria High School	Hattiez			
Skhumbuzo High School	E'mthobeni			
St Georges Preparatory School	Borrowdale Brooke			
Loyola Mount Dennis College	Belvedere			

Figure 165 School Management Screen



2.10.2 Create School Screen

School

School Name:
Mt Pleasant Primary

School Email:
mtp@prim.com

School Telephone:
+2721569874

Country:
Suid Afrika

Province:
West

City:
Kitwe

Surburb:
Tukkiezwerf

Village:
Hatfieldsz

Create School Cancel

Figure 166 Create School Screen



School

School Name:

Please enter a Name ×

School Email:

School Telephone:

Country:
 ▼

Province:
 ▼

City:
 ▼

Surburb:
 ▼

Village:
 ▼

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

Create School Cancel

Figure 167 Create School Error Screen



School

School Name:
Mt Pleasant Primary

School Email:
mtpleasantprimary@gmail.com

Confirmation

Are you sure you want to add this School?

Yes

No

West

City:
Kitwe

Surburb:
Tukkiezwerf

Village:
Hatfieldsz

Create School

Cancel

Figure 168 Create School Confirmation Screen



School

School Name:
Mt Pleasant Primary

School Email:
mtp@prim.com

Success

School has been added successfully.

Ok

City:
Kitwe

Suburb:
Tukkiezwerf

Village:
Hatfieldsz

Create School Cancel

Figure 169 School Successfully Created Screen



2.10.3 View School Screen

School

School Name:
Mt Pleasant Primary

School Email:
mtp@prim.com

School Telephone:
+2721569874

Country:
Suid Afrika

Province:
South

City:
Bindura

Surburb:
Borrowdale

Village:
Chi-town

Update Delete

Figure 170 View School Screen



School

School Name:
Mt Pleasant Primary

School Email:
mtpleasantprimary@gmail.com

Confirmation

Are you sure you want to update this School?

Yes

No

South

City:
Bindura

Surburb:
Borrowdale

Village:
Chi-town

Update

Delete

Figure 171 Update School Confirmation Screen



School

School Name:
Mt Pleasant Primary

School Email:
mtp@prim.com

Success

School has been updated successfully.

Ok

City:
Bindura

Surburb:
Borrowdale

Village:
Chi-town

Update Delete

Figure 172 School Successfully Updated Screen



School

School Name:
Mt Pleasant Primary

School Email:
[Redacted]

Confirmation

Are you sure you want to delete this School?

Yes

No

South

City:
Bindura

Surburb:
Borrowdale

Village:
Chi-town

Update

Delete

Figure 173 Delete School Confirmation Screen



School

School Name:
Mt Pleasant Primary

School Email:
mtp@prim.com

Success

School has been deleted successfully.

Ok

City:
Bindura

Suburb:
Borrowdale

Village:
Chi-town

Update Delete

Figure 174 School Deleted Successfully Screen



2.11 Sub-System 10: Job

2.11.1 QR Scan Screens

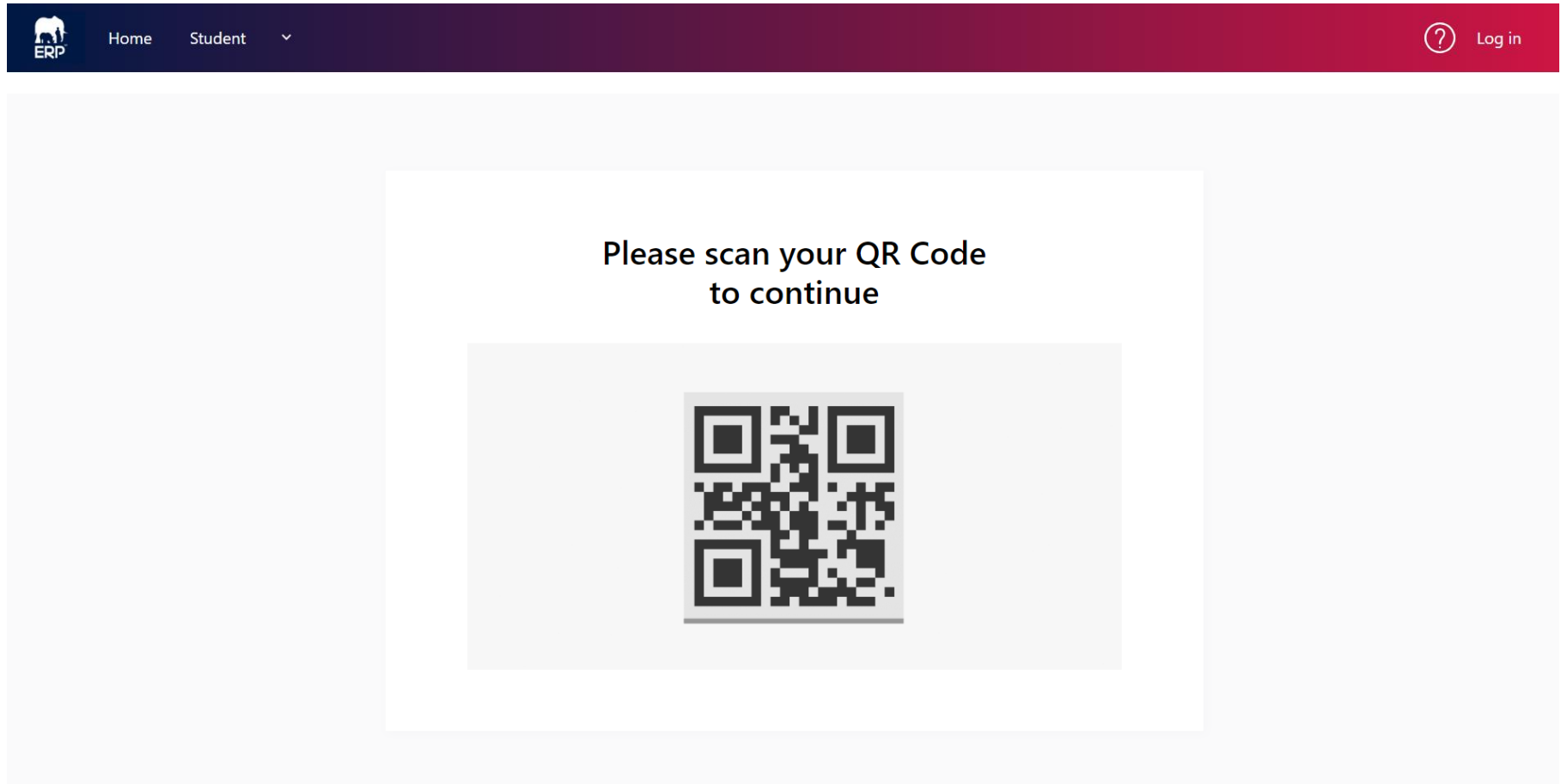


Figure 175 QR Scan Screen

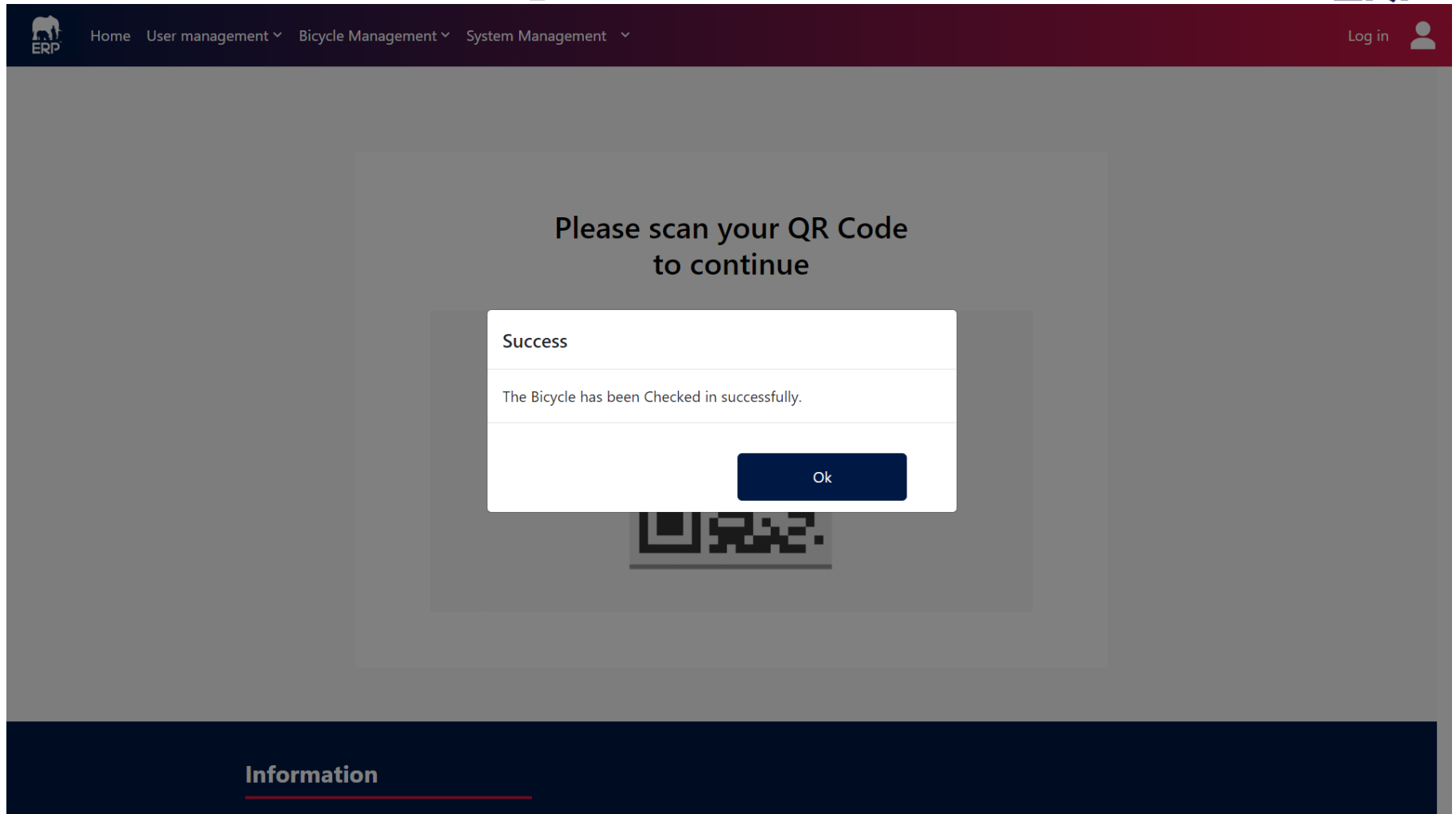


Figure 176 Successful Check-In Screen



2.11.2 Bicycle Blueprint Screens

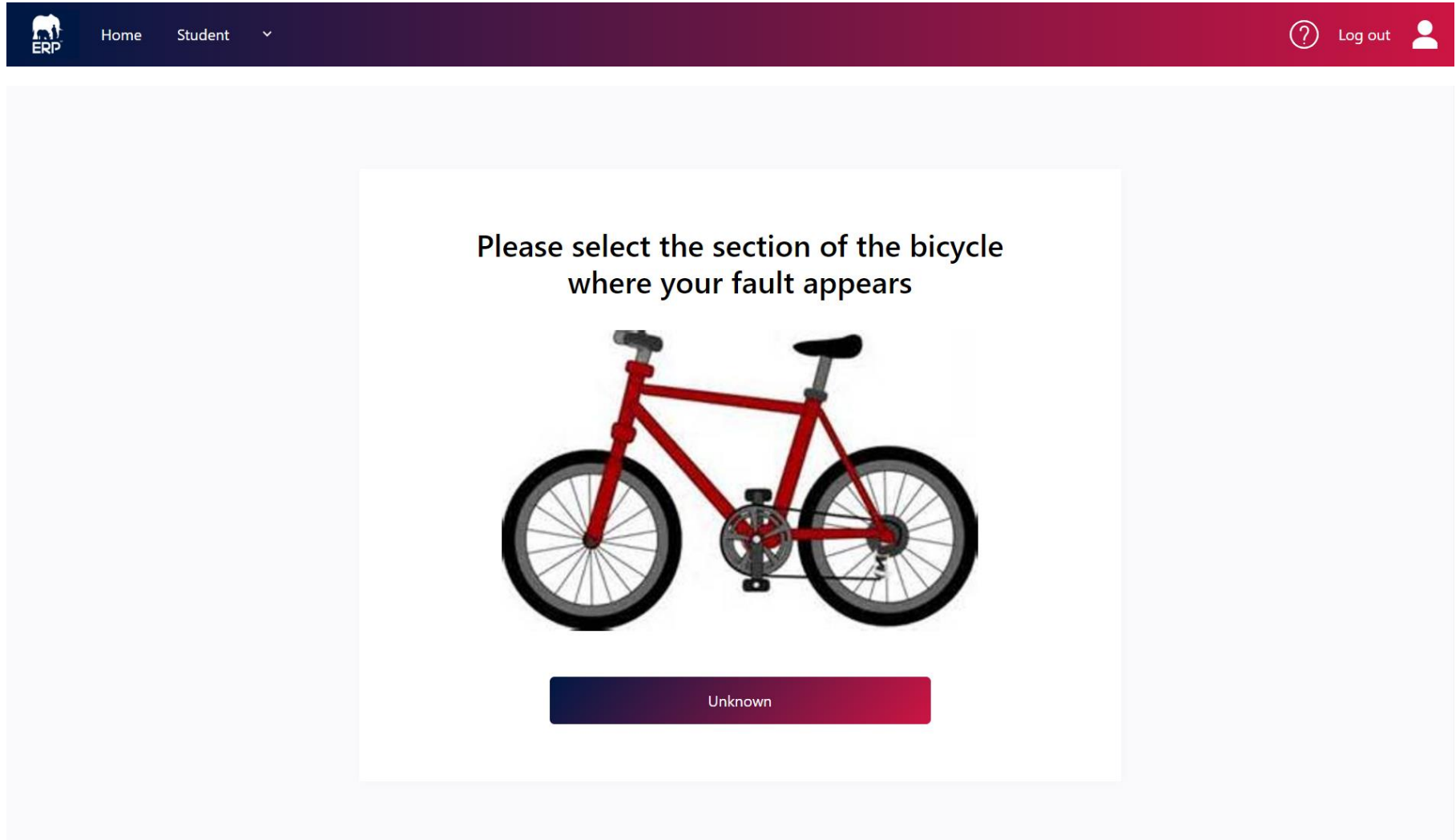
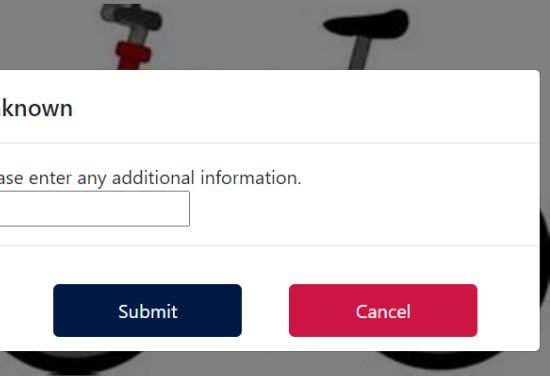


Figure 177 Bicycle Blueprint Screen



[Home](#) [User management](#) [Bicycle Management](#) [System Management](#) [Log in](#) 

Please select the section of the bicycle where your fault appears



Unknown

Please enter any additional information.

Submit

Cancel

Unknown

Figure 178 Unknown Fault Screen



2.11.3 Section Blueprint Screens

 Home Student ▾

 Log out 

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

Rim

Bearing

Spoke

Lacing

Unknown

Figure 179 Section Blueprint Screen

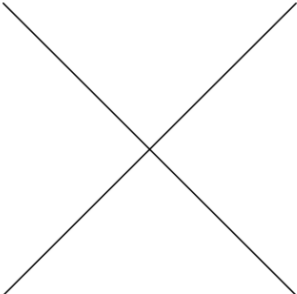


2.11.4 Part Faults Screens

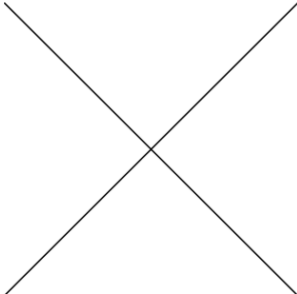
 Home Student ▾

 Log out 

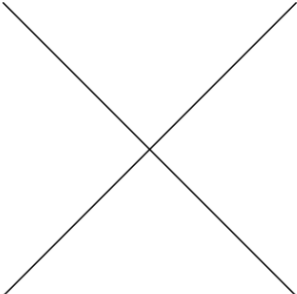
Please select the fault that appears on the Rim



Dented Rim



Broken Rim



Bent Rim

Unknown

Figure 180 Part Faults Screen



[Home](#) [User management](#) [Bicycle Management](#) [System Management](#) [Log in](#) 

Please select the fault that appears on the Rim

Confirmation

Are you sure you want to select a Broken Rim?

Yes

No

Bent Rim

Unknown

Figure 181 Part Faults Confirmation Screen

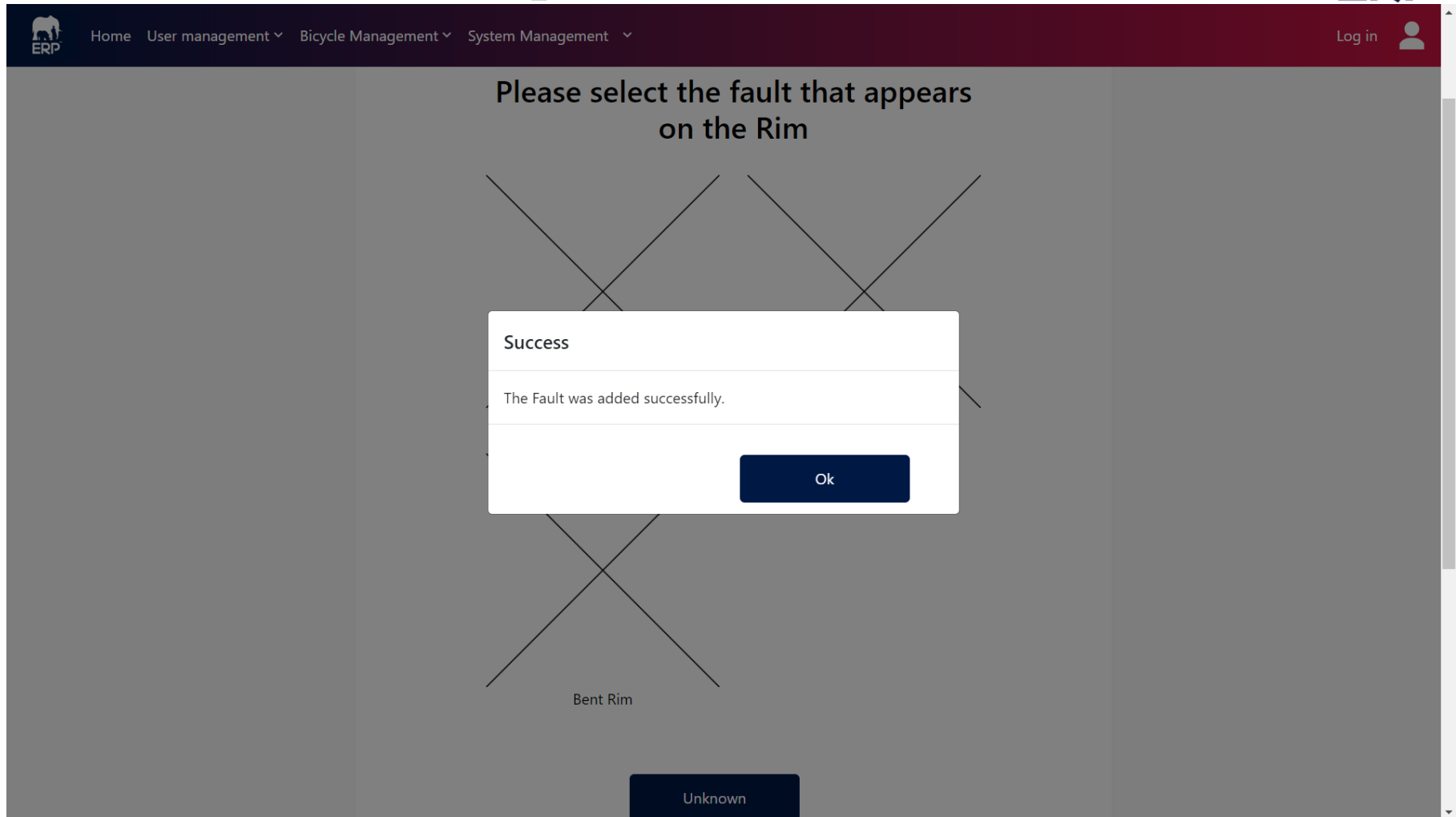


Figure 182 Successfully Added Fault Screen



2.11.5 Report List Screen

Home Student ▾

?

Log out

Report Job - Fault List

⊕

Report 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 183 Report List Screen



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

Report Job - Fault List

Report Job

Section	Part	Fault Type	Action
Front Wheel	Rim	Dented Rim	✕
Back Wheel	Tube	Punctured Tube	✕
Handlebar	Left	Swinging	✕
Back Wheel	Chain	Loose Chain	✕

Success

The Faults have been reported successfully.

Ok

Information

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Figure 184 Report List Successfully Reported Screen



2.11.6 Fix Fault Screen

 Home Mechanic 

 Log out 

Please select the tasks Completed

- ☐ Patch Puncture
- ☐ Replace Tube
- ☐ Replace Wheel

Submit

Figure 185 Fix Fault Screen



2.12 Sub-System 11: Reporting

2.12.1 Mechanic Schedule Report Screen

 Home Mechanic 

 Log out 

Figure 186 Mechanic Schedule Report



Mechanic Schedule Report

Start Date:01/02/2020
End Date:08/02/2020

Download Report

Job Code	Bicycle Code	Student Name	Job Description	Student Contact	Date Scheduled
OC-77	10111	Johnson Sonny	Clean brakes	(+27) 84 171 1025	Monday 07/02/2020
BR-26	20512	Johnson Sonny	Oil Change	(+27) 61 923 4567	Monday 14/02/2020
WW-03	13632	Peter Packerd	Oil Change	(+27) 64 369 7751	Monday 21/02/2020
FB-96	05698	Freedoms Mayson	Oil Change	(+27) 82 112 7852	Tuesday 15/02/2020
HB-51	19756	Matthew Matt	Oil Change	(+27) 61 663 8231	Tuesday 22/02/2020

Success

Mechanic Schedule Report has been downloaded successfully.

Ok

Figure 187 Mechanic Schedule Report Download Success



2.12.2 Mechanic Schedule Requirements Screen

 Home Mechanic 

 Log out 

Figure 188 Mechanic Schedule Requirements Report Screen



Mechanic Schedule Requirements Report

Start Date:01/02/2020

End Date:08/02/2020

Download Report

Job Code	Bicycle Code	Student Name	Job Description	Parts Needed	Date Scheduled
OC-77	10111	Johnson Sonny	Clean brakes	Chain	Monday 07/02/2020
BR-26	20512	Johnson Sonny		None	Monday 14/02/2020
WW-03	13632	Peter Packard		Front & Rear Tube	Monday 21/02/2020
FB-96	05698	Freedoms Mayson		Handle Bar	Tuesday 15/02/2020
HB-51	19756	Matthew Matt		Rear Brakes	Tuesday 22/02/2020

Success

Mechanic Schedule Requirements Report has been downloaded successfully.

Ok

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

Figure 189 Mechanic Schedule Requirements Report download Success Screen



2.12.3 Parts Used Report Screen

 Home Administrator Management Systems Management  Log out 

Parts Used Report

Download ReportGenerate 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 190 Parts Used Report Screen



Parts Used Report

[Download Report](#) [Generate Report](#) Start Date: End Date:

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 Pa		Front & Rear Tube	Monday 21/02/2020
Fault	05698	Freedoms		Handle Bar	Tuesday 15/02/2020
Fault	19756	Matthew		Rear Brakes	Tuesday 22/02/2020

Success

Parts Used Report has been downloaded successfully.

Ok

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

Figure 191 Parts Used Report Download Success Screen



2.12.4 Bicycle History Report Screen

Home Administrator Management Systems Management Log out

Bicycle History Report

Download ReportGenerate 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

Total Maintenance Jobs: 9

Figure 192 Bicycle History Report Screen



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	Johns	ain	Monday 21/02/2016
BR-26	Ted	akes	Monday 21/02/2017
WW-03	Peter	ck up	Wednesday 23/02/2018
FB-96	Fredor	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

Success

Bicycle History Report has been downloaded successfully.

Ok

Figure 193 Bicycle History Report Downloaded Successfully Screen



2.12.5 Log Report Screen

Home Administrator Management Systems Management Log out

Log Report

Download Report Generate Report Start Date: End Date:

Antenna Serial Number: 15 | Status - Working

Tag Serial Number	Bicycle Code	Student Name	Time	Date
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 Packerd	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

Figure 194 Log Report Screen



Log Report

[Download Report](#) [Generate Report](#) Start Date: End Date:

Antenna Serial Number: 15 | Status - Working

Tag Serial Number	Bicycle Code	Student Name	Time	Date
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 Packerd	09:15:51	Monday 21/02/2020
5566598-E89	05698		08:15:45	Tuesday 22/02/2020
5656598-E85	19756		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

Figure 195 Log Report Successfully Downloaded Screen



2.12.6 Student Report Screen

 Home Administrator Management ▾ Systems Management ▾  Log out 

Student Report

Download ReportGenerate Report

Choose Year:

2019 ▾

Choose School Term:

2nd Term ▾





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

Overall Pass Rate: 75%

Overall School Attendance: 77%

Figure 196 Student Report Screen

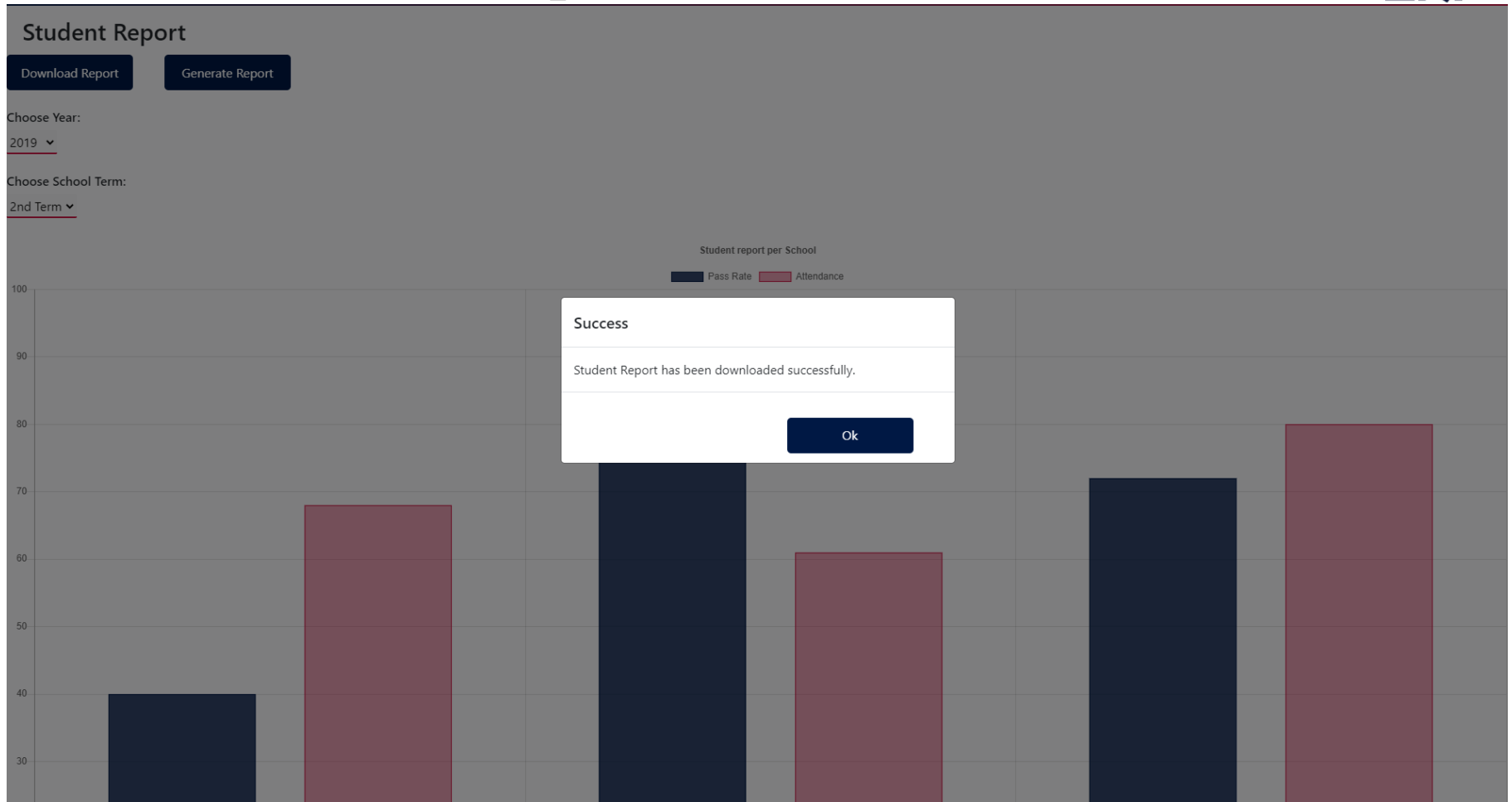


Figure 197 Student Report has been successfully downloaded Screen



2.13 Sub-System 12: Notification

2.13.1 Student did not arrive Notification Screen

No Screens Used Refer to the Technical Narrative for Use Case 12.1 Student did not arrive notification

2.13.2 Send student check-in Notification Screen

No Screens Used Refer to the Technical Narrative for Use Case 12.2 Send student check-in notification



2.14 Sub-System 13: Administration

2.14.1 System Data Management Screen

System Data Management			Search	Search	Backup System
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 198 System Data Management Screen



2.14.2 Backup System Screen

System Data Management

Search

Backup System

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

Confirmation

Are you sure you want to backup the system?

Yes

No

Figure 199 Backup System Confirmation Screen



System Data Management

Search

Backup System

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

Success

The system has been backed up successfully.

Ok

Figure 200 System backed up successfully Screen



System Data Management

Search

Backup System

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

Failed

Backup unsuccessful. Please try again.

Ok

Figure 201 Backup Unsuccessful Screen



2.14.3 Restore System Screen

System Data Management

Search

Backup System

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

Confirmation

Are you sure you want to restore the system?

Yes

No

Figure 202 Restore System Confirmation Screen



System Data Management

Search

Backup System

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

Success

The system has been restored successfully. Please restart the application.

Ok

Figure 203 System Restore Success Screen



System Data Management

Search

Backup System

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

Failed

Restore unsuccessful. Please try again.

Ok

Figure 204 Restore Unsuccessful Screen



2.14.4 Audit Trail Management Screen

Audit Trail Management				
		Search	<button>Search</button>	<button>View Audit Trail Log</button>
Audit Trail ID	User	Date Time	Transaction Type	Action
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>
10265	Administrator	01/29/2020 05:15	Student Updated	<button>View</button>

Figure 205 Audit Trail Management Screen



2.14.5 View Audit Trail Log

Audit Trail ID	User	Date Time	Transaction Type
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
10265	Administrator	01/29/2020 05:15	Student Updated
10265	Administrator	01/29/2020 05:15	Student Updated

Figure 206 View Audit Trail Log



2.14.6 View Audit Trail Entry

Audit Trail Entry

Audit Trail ID:
10265

User:
Administrator

Date Time:
01/29/2020 05:15

Transaction Type:
Scheduled maintenance Added

Back to search results

Figure 207 View Audit Trail Entry Screen



3 Deliverable Conclusion & Sign-Off

3.1 Conclusion

After creating and Designing the screens, we went back to previous sections of our system to make updates and made sure that our screens align with the rest of our system.

It will also now be a lot easier to code the screens of the system because we have essentially laid out a blueprint for how the system's display interfaces will look as well as how the data is going to be handled from a user perspective.

3.2 Client Sign-off

I, _____, on behalf of EPI-USE, hereby confirm that I understand and agree to the stated scope of work, specifications, diagrams and requirements set out in this document – Visual Visionaries Deliverable 3 Prototype.

Date: _____

Signature: _____



3.3 Group Sign-off

We, as Group 17 Visual Visionaries, hereby agree and declare that each member in the group contributed equally and fully to this document, Deliverable 3 Prototype for INF 370 2020.

Name: _____

Signature: _____

Date: _____

Name: _____

Signature: _____

Date: _____

Name: _____

Signature: _____

Date: _____

Name: _____

Signature: _____

Date: _____

Name: _____

Signature: _____

Date: _____