





20/10/2020

# #BIKES4ERP

# User Manual

Virtual Visionaries
GROUP 17









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## 1 How to get HELP and online HELP

The #BIKES4ERP web application has a "Help" Icon in the top right corner of the screen, next to the "Logout" button. A click of the icon will take you to the "Help" guide. Should a system user get confused at any point, this "Help Guide" gives the user further explanation on system procedures.

The "Help" icon will take you directly to the point in the guide that corresponds to the current screen you are on; this will serve as online help.

The aforementioned "Help" icon is denoted with the following icon:



#### 2 Contact details for additional HELP

Please feel free to contact any of the Virtual Visionary group members should you require additional assistance with the system.

#### Tapiwarufaro Ndoro (Group Leader)

- 067 041 4551
- tapiwarufaro.ndoro2@gmail.com

#### Hansen Lee

- 072 416 4483
- <u>hansentheasian@gmail.com</u>

#### Byron Donald

- 083 256 1606
- byron.j.donald@gmail.com

#### Gareth Philips

- 073 859 4959
- garethphillips12@gmail.com

#### Cameron King

- 083 649 5003
- <u>cameroncsking@gmail.com</u>





#### 3 Student Screens

#### 3.1 Home Screen

### Screen Description

This is the Home Screen of the #Bikes4ERP web application, available on loading the web application. It is through this page the user will be able to login by clicking the "Log in" button in the top right corner. A student will also be able to report a fault by clicking on the "Student" menu icon and then selecting the "Report Fault" menu item.







Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Dropdown Menu Item– Report Fault	Redirects the User to the <b>Report Fault</b> page.
3	Help Button	Redirects the User to the Help Document.
4	Login Button	Redirects the User to the Log-In Screen.





#### 3.2 QR Scan Screen

## Screen Description

This is the QR Scan screen of the #Bikes4ERP web application, accessed by clicking "Report Fault" menu item on the Student menu icon. It allows a user to scan their Bicycle QR code to either check in a bicycle or report a fault for the bicycle.

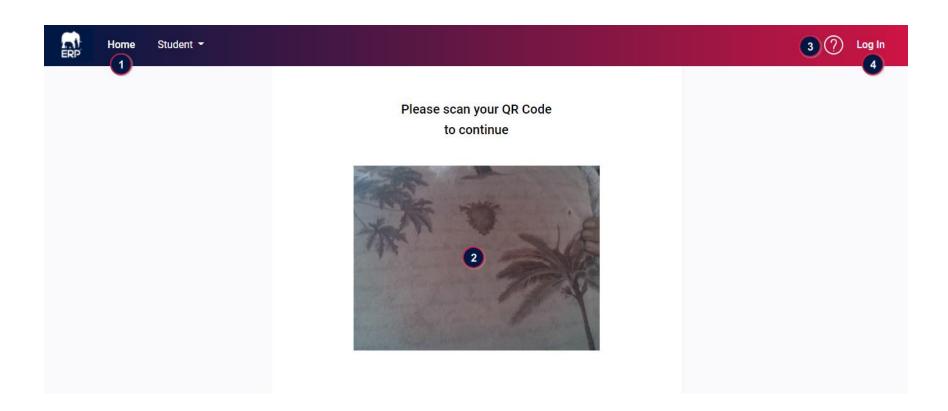






Figure 1 QR Scan Screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	QR Scan Screen	Allows the user to scan their QR code by placing the code in front of the camera, If the code has a job due it will display a <b>Checked-in</b> dialog, if there is no Job it will redirect the user to the QR scan page
3	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
4	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





### 3.3 Bicycle Blueprint Screen

#### Screen Description

This is the Bicycle Blueprint screen of the #Bikes4ERP web application, accessed by the user scanning the bicycle QR code and clicking Report Fault button. It allows a user to select the section of the bicycle that the fault occurs on or alternatively the user can click the unknown button and write a note for the Mechanic if the User is unsure of the Section.





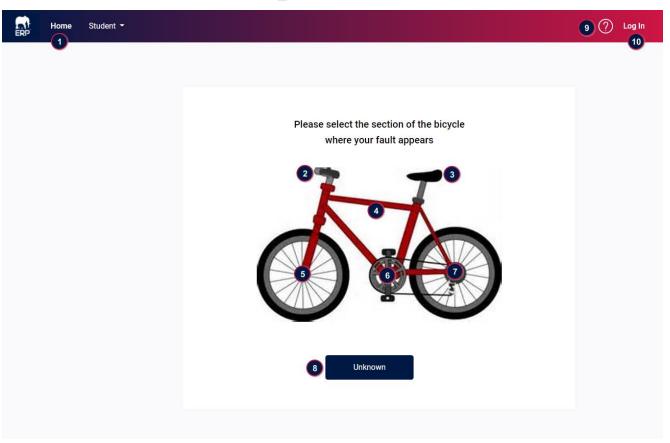


Figure 2 Bicycle Blueprint Screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Handlebar Button	Allows the user to select the Handlebar section of the bicycle on the Bicycle Blueprint by clicking on the Handlebars, it will Redirect to the Section Blueprint page



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3	Seat Button	Allows the user to select the Seat section of the bicycle on the Bicycle Blueprint by clicking on the Seat, it will Redirect to the Section Blueprint page
4	Bicycle Frame Button	Allows the user to select the Bicycle Frame section of the bicycle on the Bicycle Blueprint by clicking on the Bicycle Frame, it will Redirect to the Section Blueprint page
5	Front Wheel Button	Allows the user to select the Front Wheel section of the bicycle on the Bicycle Blueprint by clicking on the Front Wheel, it will Redirect to the Section Blueprint page
6	Break/Gear Button	Allows the user to select the Break/Gear section of the bicycle on the Bicycle Blueprint by clicking on the Break/Gear, it will Redirect to the Section Blueprint page
7	Back Wheel Button	Allows the user to select the Back Wheel section of the bicycle on the Bicycle Blueprint by clicking on the Back Wheel, it will Redirect to the Section Blueprint page
8	Unknown Button	Allows the User to enter in a note instead of selecting a section this will then Redirect the user to the Report Job page
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 3.4 Section Blueprint Screen.

#### Screen Description

This is the Section Blueprint screen of the #Bikes4ERP web application, accessed by the user selecting a specific bicycle section on the Bicycle Blueprint screen. It allows a user to select the Part of the bicycle that the fault occurs on or alternatively the user can click the unknown button and write a note for the Mechanic if the User is unsure of the Part.

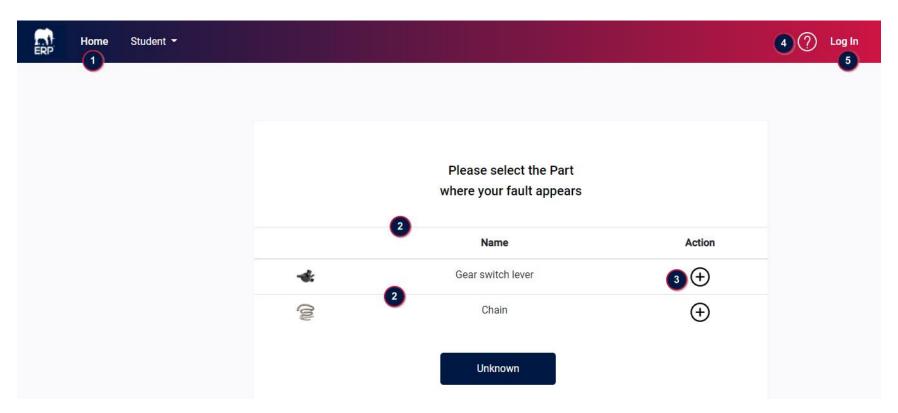


Figure 3 Section Blueprint Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Part Table	Displays a list of Bicycle Part and picture for the selected Section
3	Plus Button	Allows the user to select the specific Part of the Bicycle
4	Unknown Button	Allows the User to enter in a note instead of selecting a Part this will then Redirect the user to the Report Job page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 3.5 Part Faults Screen

#### Screen Description

This is the Part Fault screen of the #Bikes4ERP web application, accessed by the user selecting a specific bicycle part on the Section Blueprint screen. It allows a user to select the specific fault of the bicycle or alternatively the user can click the unknown button and write a note for the Mechanic if the User is unsure of the Fault.

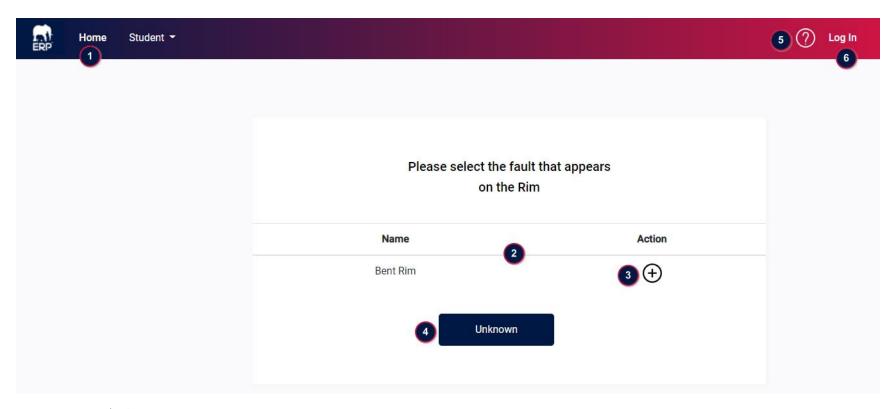


Figure 4 Part Faults Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Part Table	Displays a list of Part Faults for the selected Section
3	Plus Button	Allows the user to select the specific Fault of the Part
4	Unknown Button	Allows the User to enter in a note instead of selecting a Fault this will then Redirect the user to the Report Job page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 3.6 Report Job Screen

#### Screen Description

This is the Report Job screen of the #Bikes4ERP web application, accessed by the user selecting a specific Fault on the Part Fault screen or by the user clicking the unknown button. It allows a user to view the faults that they have selected as well as reporting the job once the user has chosen all their faults and clicks the Report Job button.

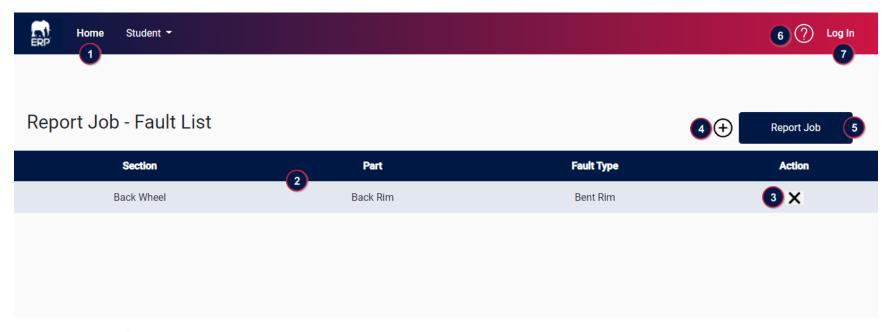


Figure 5 Report List Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Fault List Table	Displays a list of the Faults that the User has selected
3	X Button	Allows the user to delete the selected fault
4	Plus Button	Allows the User to add a new fault, Redirects to the Bicycle Blueprint page
5	Report Job Button	Allows the User to Report the selected Bicycle Faults, Redirects the User to the Home page
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





### 4 Mechanic Screens

#### 4.1 Home Screen

# Screen Description

This is the Mechanic Home Screen of the #Bikes4ERP web application, available after the Mechanic has logged into the system. The mechanic will be able to Check-in a Bicycle and View their Calendar by clicking the respective menu items.







Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the BikesERP <b>Home</b> Screen.
2	Dropdown Menu Item: Check-In Bicycle	Redirects the Mechanic to the Check-in Bicycle page
3	Dropdown Menu Item: View Calendar	Redirects the Mechanic to the View Calendar page
4	Help Button	Redirects School Administrator to the Help document
5	Logout Button	If the Mechanic clicks on the <b>Logout</b> option, it will then log the Mechanic out of the system and Redirect to the Home page





#### 4.2 QR Scan Screen

### Screen Description

This is the QR Scan screen of the #Bikes4ERP web application, accessed by the clicking "Check In" menu item on the "Mechanic" menu icon. It allows a user to scan their Bicycle QR code to either check in a bicycle or report a fault for the bicycle.

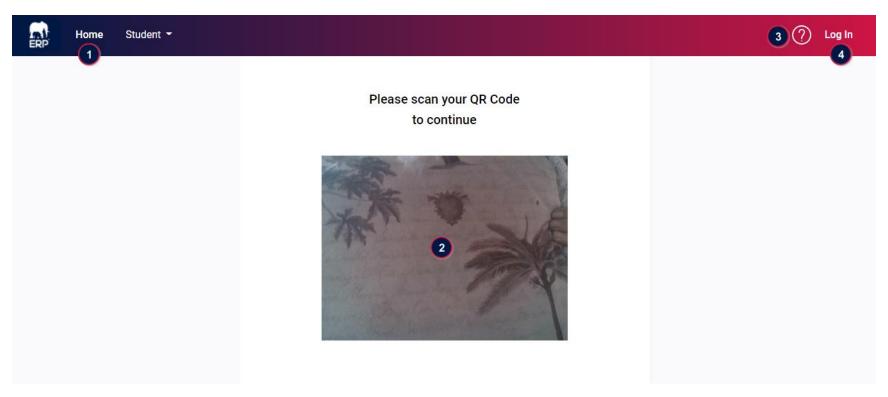


Figure 6 QR Scan Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	QR Scan Screen	Allows the user to scan their QR code by placing the code in front of the camera, If the code has a job due it will display a <b>Checked-in</b> dialog, if there is no Job it will redirect the user to the QR scan page
3	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
4	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 4.3 Mechanic Calendar Screen

#### Screen Description

This is the Mechanic Calendar screen of the #Bikes4ERP web application, accessed by the clicking "View Calendar" menu item. It allows a Mechanic to view their scheduled jobs for each day, they can view a specific day's jobs by click on the date of the day they wish to view, this will bring up the Job screen.

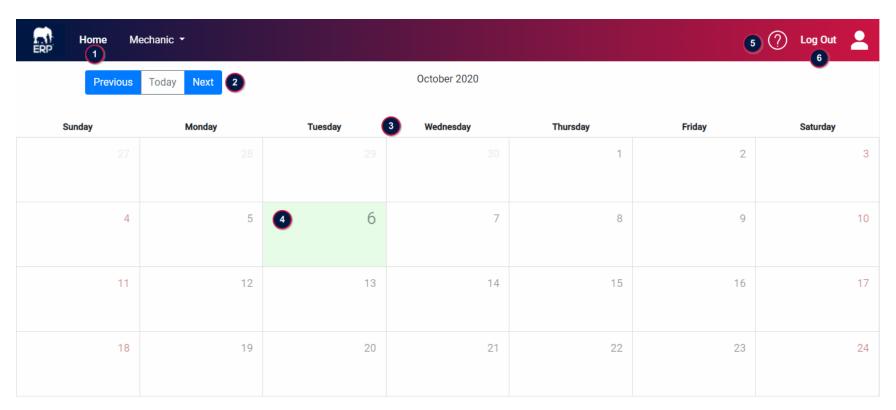


Figure 7 View Jobs Screen





Number	ltem	Description
2	Calendar Navigation Button	Allows the Mechanic to navigate the different months of the calendar.
3	Mechanic Calendar	Displays the days of a month for the Mechanic to see
4	Day	When Clicked, Redirects the Mechanic to the Job List page for the selected Day
5	Help Button	If the user clicks on the Help option, Redirects Mechanic to the Help document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Mechanic out of the system and Redirects to the Home page





#### 4.4 Job Screen

#### Screen Description

This is the Job screen of the #Bikes4ERP web application, accessed by the clicking on a specific date on the Mechanic Calendar screen. It allows a Mechanic to view their scheduled jobs for a specific day as well as check in a bicycle for a job.

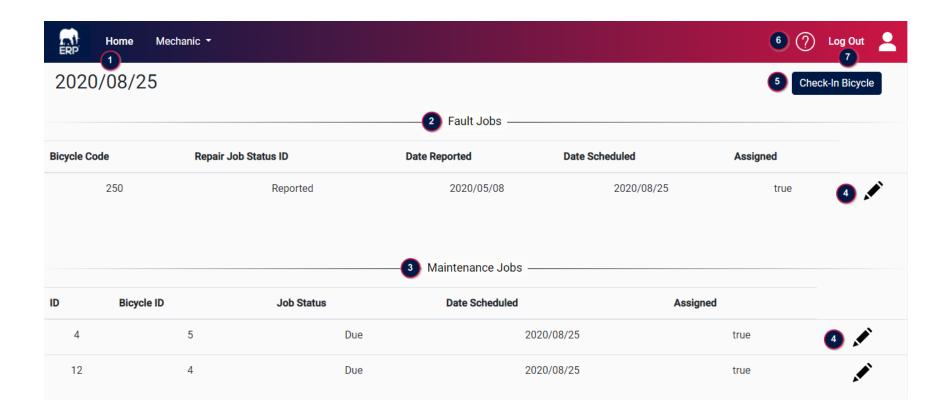


Figure 8 Job Screen





Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Fault Jobs Table	Table to show all the Fault Job's in the system for the day
3	Maintenance Jobs Tab	Table to show all the Maintenance Job's in the system for the day
4	Pen Button	Displays the Fault/Maintenance List page
5	Check-In Button	Redirects the Mechanic to the <b>QR Scan</b> page
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 4.5 Job List Screen

#### Screen Description

This is the Job List screen of the #Bikes4ERP web application, accessed by the clicking "View Calendar" menu item. It allows a Mechanic to view their scheduled jobs for each day, they can view a specific day's jobs by click on the date of the day they wish to view, this will bring up the Job screen.



Figure 9 View Job List Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Fault List Table	Table to show all the <b>Job's Details</b> in the system for the Specified <b>Job</b>
3	Check Box	Marks that specific Repair fault as Complete
4	Complete Job Button	Completes job once all faults are checked, then displays a Success Confirmation Dialog
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page



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4 School Administrator Screens





#### 4.1 Home Screen

## Screen Description

This is the School Administrator Home Screen of the #Bikes4ERP web application, available after the School Administrator has logged into the system. The school administrator will be able to perform all the functions that are in their assigned jurisdiction by clicking the "School Administrator" menu icon.







Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Dropdown Menu Item: Capture Marks	Redirects the School Administrator to the Capture Marks page
3	Dropdown Menu Item: Download Documents	Redirects the School Administrator to the Download Documents page
4	Dropdown Menu Item: Manage Students	Redirects the School Administrator to the Manage Students page
5	Dropdown Menu Item: Manage Mark Types	Redirects the School Administrator to the Manage Mark Types page
6	Dropdown Menu Item: Manage Bicycles	Redirects the School Administrator to the Manage Bicycles page
7	Dropdown Menu Item: Assign Bicycles	Redirects the School Administrator to the Assign Bicycles page
8	Dropdown Menu Item: Assign Tag	Redirects the School Administrator to the Assign Bicycles page
9	Help Button	Redirects School Administrator to the Help document
10	Logout Button	If the School Administrator clicks on the <b>Logout</b> option, it will then log the School Administrator out of the system and Redirects to the Home page





### 4.2 Student Management Screen

#### Screen Description

This is the Student Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Students" menu item on the "School Administrator" menu icon. It allows a School Administrator to view and search all the students currently registered on the system (in their school), the user will also be able create new students as well as edit current edit student details.



10 Student Management Screen

Figure





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Student table	Displays a list of Student Name, Surname and Bicycle Code for each Student
3	Pen button	Allows the School Administrator to view a specific Student, Redirects To the View page
4	Plus Button	Redirects the School Administrator to the Create Student page
5	Search Textbox	The School Administrator can enter in the Student details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.3 Create Student Screen

### Screen Description

This is the Create Student screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Student Management" screen. It allows a School Administrator to create a new student. The user will enter the required details and proceed to click the "Create" button.





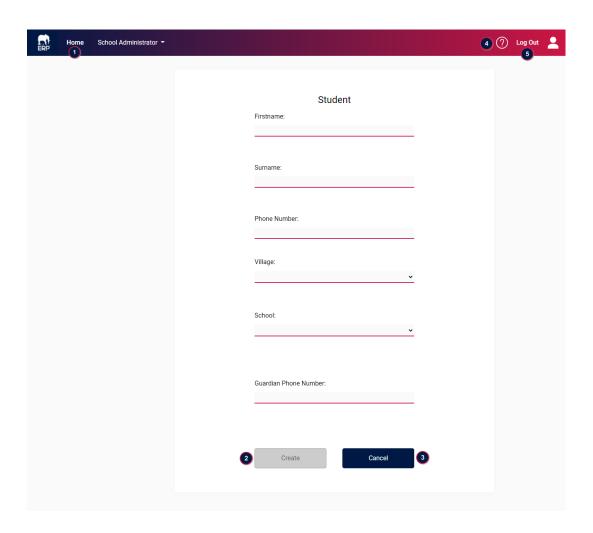


Figure 11 Create Student Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Student once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Student Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.4 View Student Screen

## Screen Description

This is the View Student screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a student. It allows the user to either update or delete the requested students' details.





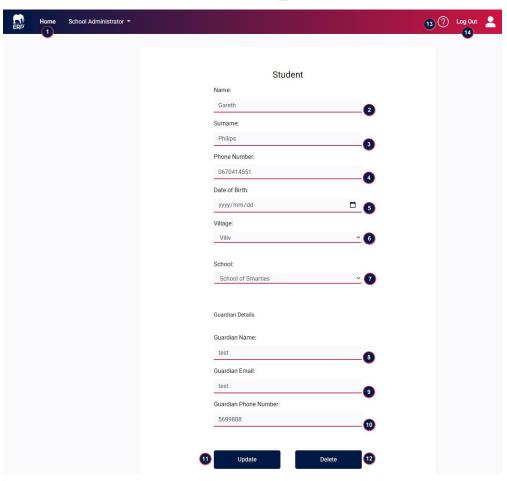


Figure 12 View Student Screen



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Number	ltem	Description	
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.	
2	Student Name Textbox	Allows the School Administrator to Update a Student's Name	
3	Student Surname Textbox	Allows the School Administrator to Update a Student's Surname	
4	Phone Number Textbox	Allows the School Administrator to Update a Student's Phone Number	
5	Date Of birth Date- Picker Textbox	Allows the School Administrator to select and Update a Student's Date Of Birth	
6	Village Dropdown Menu	Allows the School Administrator to select and Update a Student's Village	
7	School Dropdown Menu	Allows the School Administrator to select and Update a Student's School	
8	Guardian Name Textbox	Allows the School Administrator to Update a Student's Name	
9	Guardian Email Textbox	Allows the School Administrator to Update a Guardian's Email	
10	Guardian Phone Number Textbox	Allows the School Administrator to Update a Guardian's Phone Number	
11	Update Button	Updates the current Student and displays a Success Confirmation Dialog	
12	Delete Button	Deletes the current Student and Displays the Delete Confirmation Dialog	



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13	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
14	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.5 Student Mark Management Screen

## Screen Description

This is the Student Mark Management screen of the #Bikes4ERP web application, accessed by the clicking "Capture Marks" menu item on the "School Administrator" menu icon. It allows a School Administrator search and capture marks for students in their schools.

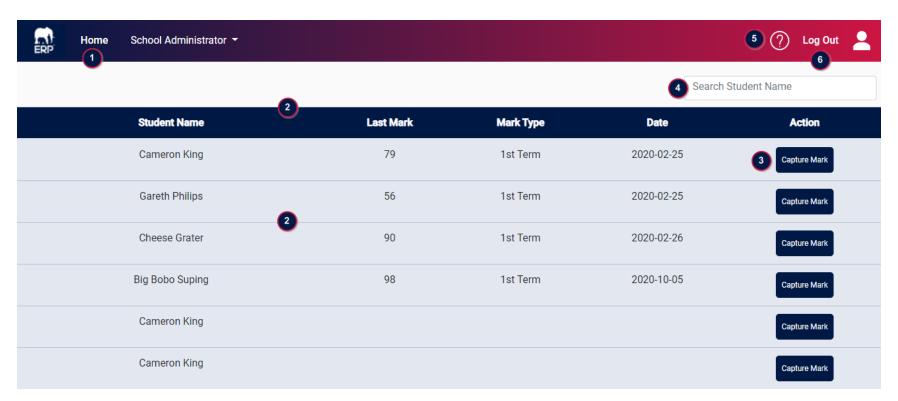


Figure 13 Student Mark Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP <b>Home</b> page.
2	Student Mark table	Displays a list of Student Names, Last Mark, Mark type and Date for each Student
3	Capture Mark button	Redirects the School Administrator to the Capture Marks page
4	Search Textbox	The School Administrator can enter in the Student details to search
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.6 Capture Student Mark Screen

#### Screen Description

This is the Capture Student Mark screen of the #Bikes4ERP web application, accessed by the clicking the "Capture Mark" button on the "Student Mark Management" screen. It allows a School Administrator to capture a new student mark. The user will enter the required details and proceed to click the "Capture" button. It also displays the Student Mark History for the selected student.





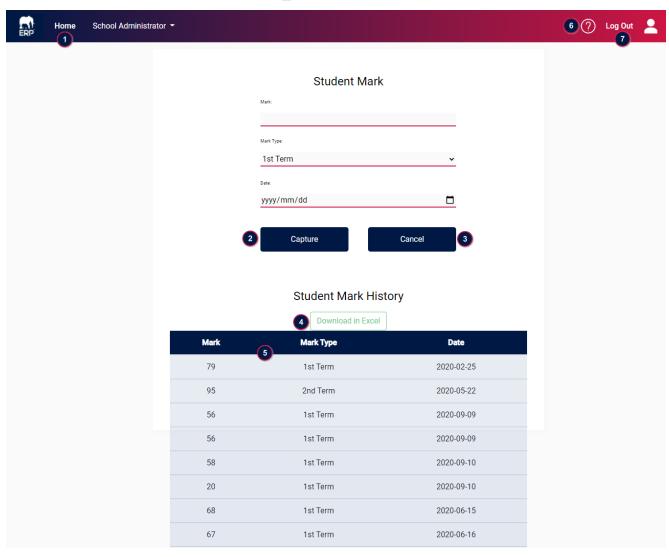


Figure 14 Capture Student Mark Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Capture Button	Creates a new mark if all fields are filled, Displays a Success Confirmation Dialog
3	Cancel Button	Redirects the School Administrator to the Student Mark management page
4	Download in Excel button	Allows the School Administrator to download an excel file of the Students marks
5	Student Mark history table	Displays a list of all the selected Student marks, Mark type and Date
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.7 Mark Type Management Screen

### Screen Description

This is the Mark Type Management screen of the #Bikes4ERP web application, accessed by the clicking "Mark Type" menu item on the "School Administrator" menu icon. It allows a School Administrator to view and search all the mark types currently on on the system, the user will also be able create new mark types as well as edit current edit mark type details.

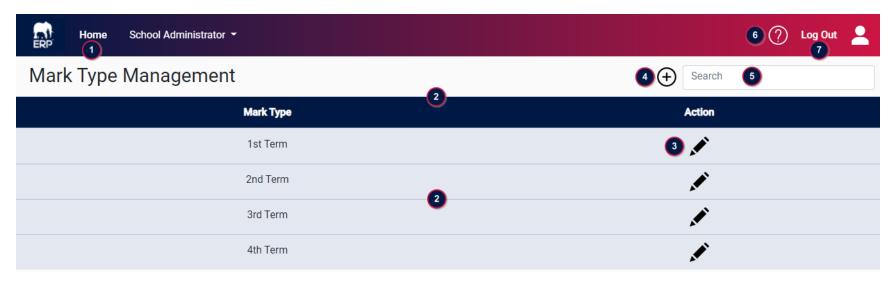


Figure 15 Mark Type Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Student table	Displays a list of Mark Types
3	Pen button	Allows the School Administrator to view a specific <b>Mark Type,</b> Redirects To the View page
4	Plus Button	Redirects the School Administrator to the Create Mark Type page
5	Search Textbox	The School Administrator can enter in the Mark Type details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.8 Create Mark Type Screen

### Screen Description

This is the Create Mark Type screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Mark Type Management" screen. It allows a School Administrator to create a new student. The user will enter the required details and proceed to click the "Create" button.

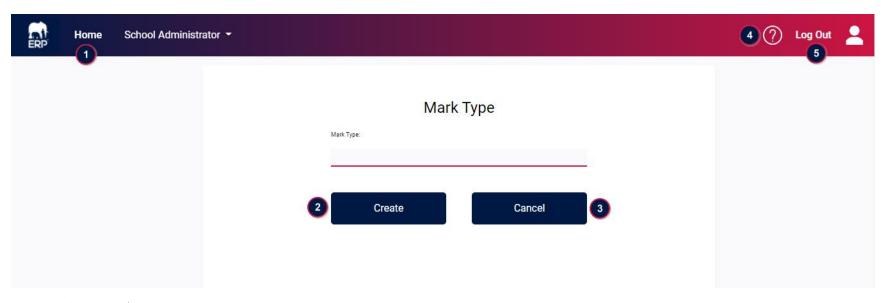


Figure 16 Create Mark Type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Mark Type once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Mark Type Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.9 View Mark Type Screen

### Screen Description

This is the View Mark Type screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a mark type. It allows the user to either update or delete the requested mark types details.

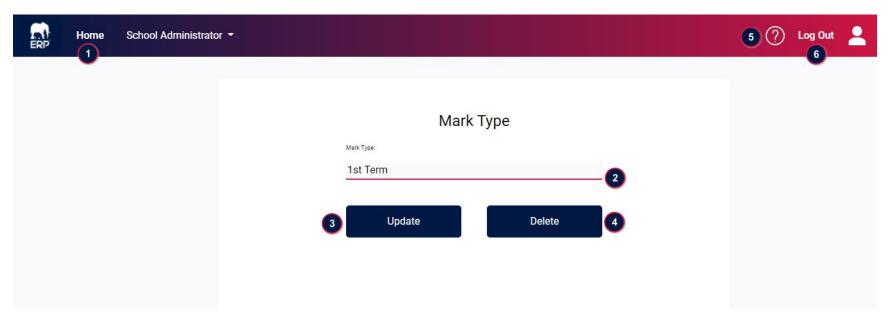


Figure 17 View Mark Type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Mark Type Textbox	Allows the Super Administrator to Update a Mark Type
3	Update Button	Updates the current Mark Type and displays a Success Confirmation Dialog
4	Delete Button	Deletes the current Mark Type and Displays the Delete Confirmation Dialog
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.10Bicycle Management Screen

### Screen Description

This is the Bicycle Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Bicycles" menu item on the "School Administrator" menu icon. It allows a School Administrator to view and search all the bicycles currently on the system, the user will also be able create new bicycles as well as edit bicycle details.

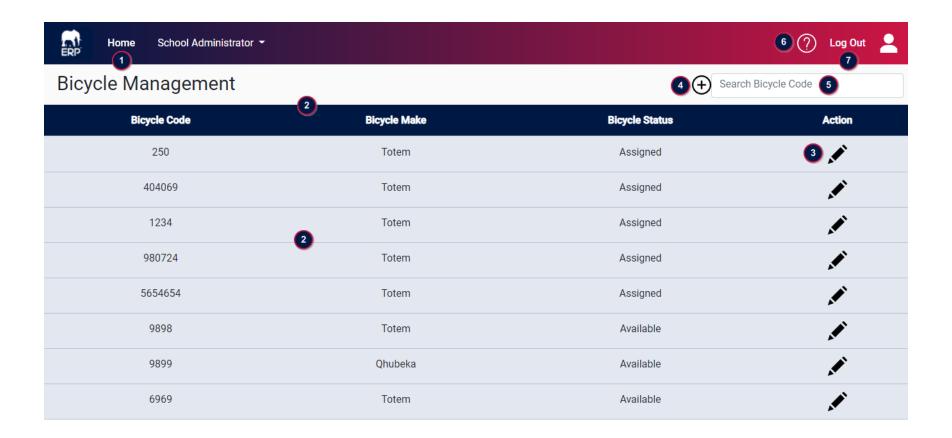






Figure 18 Bicycle Management screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Bicycle table	Displays a list of Bicycle Code, Bicycle Make and Bicycle Status for each Bicycle
3	Pen button	Allows the School Administrator to view a specific Bicycle, Redirects To the View page
4	Plus Button	Redirects the School Administrator to the Create Bicycle page
5	Search Textbox	The School Administrator can enter in the Bicycle details to search
6	Help Button	If the user clicks on the Help option, Redirects School Administrator to the Help document
7	Logout Button	If the User clicks on the Logout option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.11 Create Bicycle Screen

### Screen Description

This is the Create Bicycle screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Bicycle Management" screen. It allows a School Administrator to create a new bicycle. The user will enter the required details and proceed to click the "Create" button.

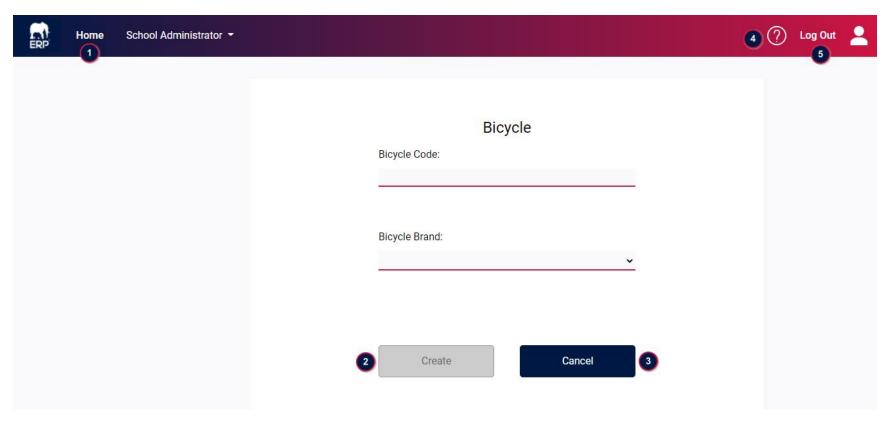


Figure 19 Create Bicycle screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Bicycle once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Bicycle Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.12 View Bicycle Screen

### Screen Description

This is the View Bicycle screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a bicycle. It allows the user to either update or delete the requested bicycle details.

ERP	Home 1	School Administrator *				9 ? Log Out
				Bicycle		
			Bicycle Code:			
			250		2	
			Bicycle Brand: Totem		× 🙃	
			Bicycle Status:		3	
			Assigned		<u> </u>	
			Date Added: 2016/02/13		<b>5</b>	
			2010/02/13		<u> </u>	
			■ <b>%</b> ■ 10000000			
			首螺形			
			Download QR Code	e <b>6</b>		
			7 Update	De	lete 8	





Figure 20 View Bicycle screen

Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Bicycle Code Textbox	Allows the School Administrator to Update a Bicycle's Code
3	Bicycle Brand Dropdown Menu	Allows the School Administrator to select and Update a Bicycle's <b>Brand</b>
4	Bicycle Status Dropdown Menu	Allows the School Administrator to select and Update a Bicycle's Status
5	Date Added Date- Picker	Allows the School Administrator to select and Update a Bicycle's Date Added
6	Download QR Code	Allows the School Administrator to download the <b>QR code</b> for the selected Bicycle
7	Update Button	Updates the current Bicycle and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Bicycle and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.13 Bicycle Assignment screen

#### Screen Description

This is the Bicycle Assignment screen of the #Bikes4ERP web application, accessed by the clicking "Assign Bicycles" menu item on the "School Administrator" menu icon. It allows a School Administrator to search all the bicycles currently on the system, the user will also be able assign and unassign bicycles for students in their school.



Figure 21 Assign Bicycle to Student screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Assign Bicycle table	Displays a list of Bicycle Code, Student Name and Surname, Date assigned and Bicycle Status for each Bicycle
3	Assign/Unassign button	Allows the School Administrator to assign/unassign a specific Bicycle to/from a Student
4	Search Textbox	The School Administrator can enter in the Bicycle details to search
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.14 Assign Bicycle screen

### Screen Description

This is the Assign Bicycle to Student screen of the #Bikes4ERP web application, accessed by the clicking "Assign" button on a bicycle, it allows the user to assign the specific bicycle to a student in their school by search the students name in the dropdown.

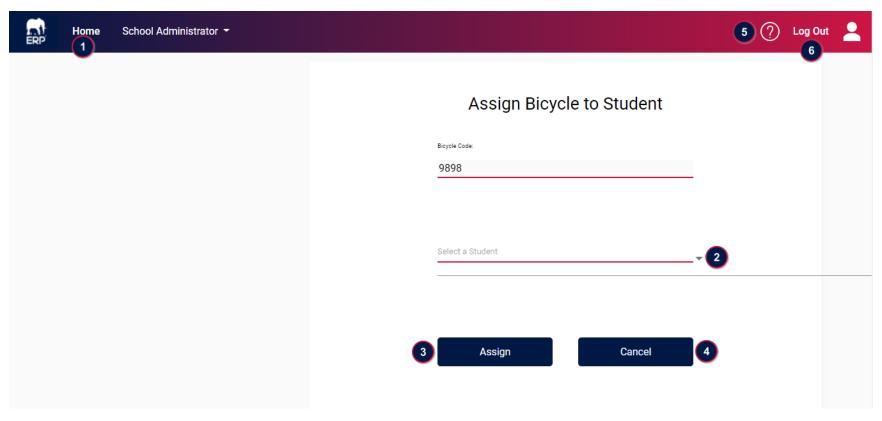


Figure 22 Assign Bicycle screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Assign Student Dropdown Menu	Allows the School Administrator to select and Assign a Bicycle to the Selected Student. The user can search for a student in the dropdown menu.
3	Assign Button	Assigns the Bicycle to the Student once all fields have been filled. And Displays Success Confirmation Dialog
4	Cancel Button	Redirects the Super Administrator to the Bicycle Assignment page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





#### 4.15Tag Assignment Screen

### Screen Description

This is the Tag Assignment screen of the #Bikes4ERP web application, accessed by the clicking "Assign Tags" menu item on the "School Administrator" menu icon. It allows a School Administrator to search all the tags currently on the system, the user will also be able assign and unassign tags.



Figure 23 Tag Assignment Management screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Assign Bicycle table	Displays a list of Tag Serial number, Bicycle Code and Tag Status for each Tag
3	Assign/Unassign button	Allows the School Administrator to assign/unassign a specific Tag to/from a Bicycle
4	Search Textbox	The School Administrator can enter in the Tag details to search
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page





### 4.16 Assign Tag Screen

### Screen Description

This is the Assign Tag to Bicycle screen of the #Bikes4ERP web application, accessed by the clicking "Assign" button on a tag, it allows the user to assign the specific tag to a bicycle.

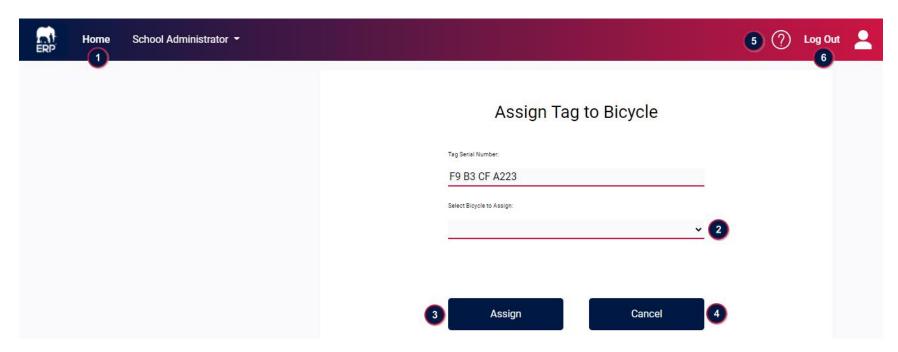


Figure 24 Assign Tag





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Select Bicycle to Assign Dropdown Menu	Allows the School Administrator to select and Assign a Tag to the Selected Bicycle.
3	Assign Button	Assigns the Tag to the Bicycle once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
4	Cancel Button	Redirects the Super Administrator to the Tag Assignment page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the School Administrator out of the system and Redirects to the Home page

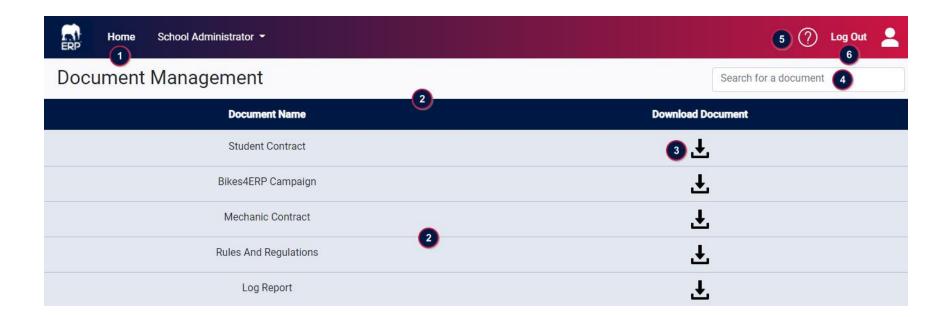




### 4.17 Document Management Screen

## Screen Description

This is the Document Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Document" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Documents currently on the system, the user will also be able create new Documents as well as edit Document details.







Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP <b>Home</b> page.
2	Document Management table	Displays a list of a Document Names
3	Download button	Allows the Super Administrator to download a specific Document
4	Search Textbox	The Super Administrator can enter in the Business Rule details to search
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





## 5 Super Administrator Screens

#### Screen Description

This is the Administrator Home Screen of the #Bikes4ERP web application, available after the Administrator has logged into the system. The administrator will be able to perform most the functions in the system. The administrator will have access to the "Administrator", "Reports" and "System" menu icons. These menu icons will allow the administrator to perform an abundance of functions that will be visible in the following 3 figures:

#### 5.1 Home Screen

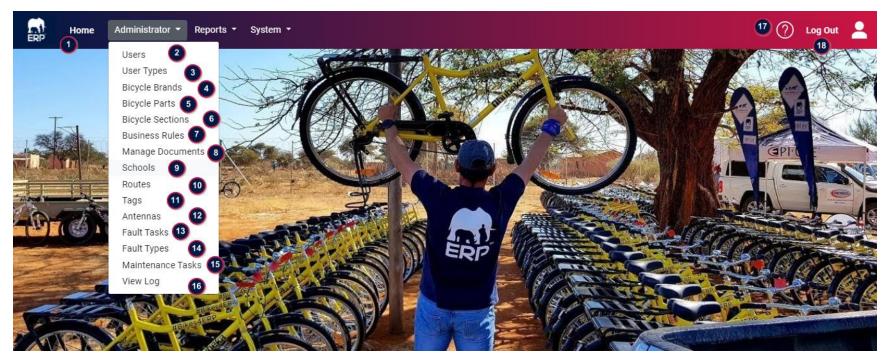


Figure 25 Super Admin Home Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Dropdown Menu Item: Users	Redirects the Super Administrator to the <b>Users</b> page
3	Dropdown Menu Item: User Types	Redirects the Super Administrator to the <b>User Types</b> page
4	Dropdown Menu Item: Bicycle Brands	Redirects the Super Administrator to the Bicycle Brands page
5	Dropdown Menu Item: Bicycle Parts	Redirects the Super Administrator to the Bicycle Parts page
6	Dropdown Menu Item: Bicycle Section	Redirects the Super Administrator to the Bicycle Sections page
7	Dropdown Menu Item: Business Rules	Redirects the Super Administrator to the Business Rules page
8	Dropdown Menu Item: Manage Documents	Redirects the Super Administrator to the Manage Documents page
9	Dropdown Menu Item: Schools	Redirects the Super Administrator to the <b>Schools</b> page
10	Dropdown Menu Item: Routes	Redirects the Super Administrator to the Routes page
11	Dropdown Menu Item: Tags	Redirects the Super Administrator to the <b>Tags</b> page



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12	Dropdown Menu Item: Antennas	Redirects the Super Administrator to the <b>Antennas</b> page
13	Dropdown Menu Item: Fault Tasks	Redirects the Super Administrator to the Fault Tasks page
14	Dropdown Menu Item: Fault Types	Redirects the Super Administrator to the Fault Types page
15	Dropdown Menu Item: Maintenance Tasks	Redirects the Super Administrator to the Maintenance Tasks page
16	Dropdown Menu Item: View Log	Redirects the Super Administrator to the <b>View Log</b> page
17	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
18	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





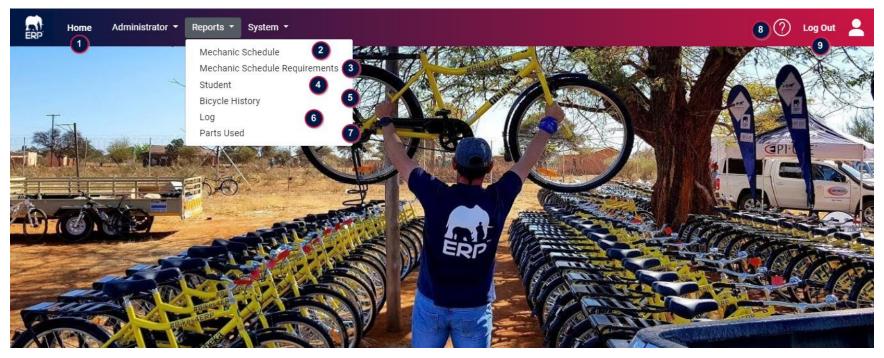


Figure 26 Super Admin Home Screen 2

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Dropdown Menu Item: Mechanic Schedule	Redirects the Super Administrator to the <b>Mechanic Schedule</b> page
3	Dropdown Menu Item: Mechanic Schedule Requirements	Redirects the Super Administrator to the <b>Mechanic Schedule Requirements</b> page



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4	Dropdown Menu Item: Student	Redirects the Super Administrator to the <b>Student</b> page
5	Dropdown Menu Item: Bicycle History	Redirects the Super Administrator to the Bicycle History page
6	Dropdown Menu Item: Log	Redirects the Super Administrator to the <b>Log</b> page
7	Dropdown Menu Item: Parts Used	Redirects the Super Administrator to the <b>Parts Used</b> page
8	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
9	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page







Figure 27 Super Admin Home Screen 2



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Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Dropdown Menu Item: Database Management	Redirects the Super Administrator to the <b>Database Management</b> page
3	Dropdown Menu Item: Audit Trail Management	Redirects the Super Administrator to the Audit Trail Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.2 Login Screen

#### Screen Description

This is the login screen of the #Bikes4ERP web application, accessed by clicking "Log in" in the top- right corner. The user must be registered on the system and input their Username and Password and proceed by clicking the "Login" button. The system will log the user in according to their user type specified by the administrator.

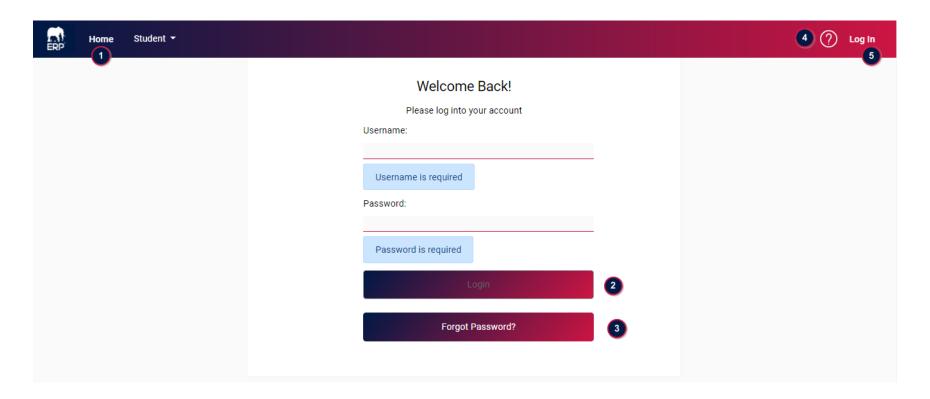


Figure 28 Login Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Login Button	Log's the User into the system and Redirects to the Home page provided their Username and Password is correct
3	Forgot Password Button	Redirects the User to the Forgot Password page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Login Button	If the User clicks on the Login option, Redirects to the Login page





#### 5.3 Forgot Password Screen

#### Screen Description

This is the Forgot Password screen of the #Bikes4ERP web application, accessed by the clicking "Forgot Password" button on the Login screen. It allows a user to reset their password, the user must be registered on the system and input their Email proceed by clicking the "Submit" button. The system will send the user an email with the reset password instructions.

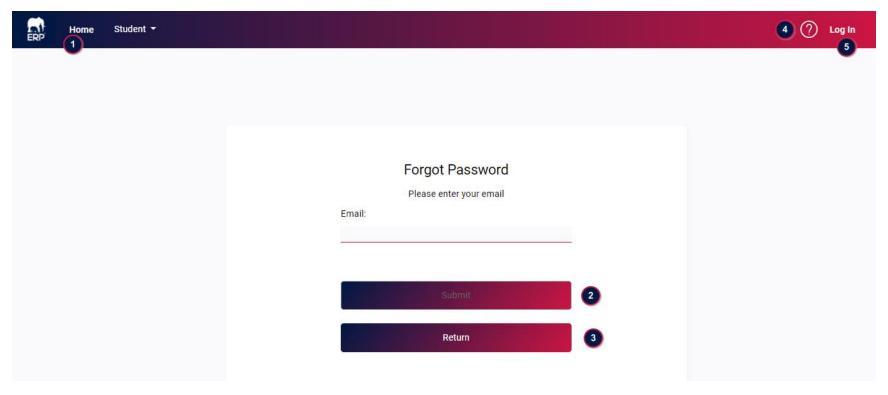


Figure 29 Forgot Password Screen



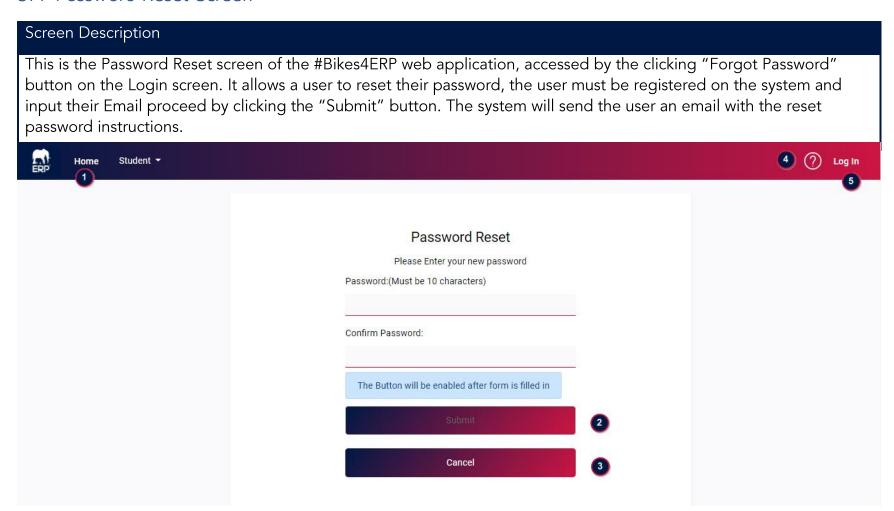


Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Submit Button	Sends an email to the user with Forgot Password details
3	Return Button	Redirects the User to the Login page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Login Button	If the User clicks on the Login option, Redirects to the Login page





#### 5.4 Password Reset Screen





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Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP Home Screen.
2	Submit Button	Submits the new password
3	Cancel Button	Redirects the User to the Login page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Login Button	If the User clicks on the <b>Login</b> option, Redirects to the Login page

Figure 30 Password Reset Screen





#### 5.5 User Management Screen

### Screen Description

This is the User Management screen of the #Bikes4ERP web application, accessed by the clicking "Users" menu item on the "Administrator" menu icon. It allows a user to view and search all the users currently registered on the system, the user will also be able create new users as well as edit current edit user details.

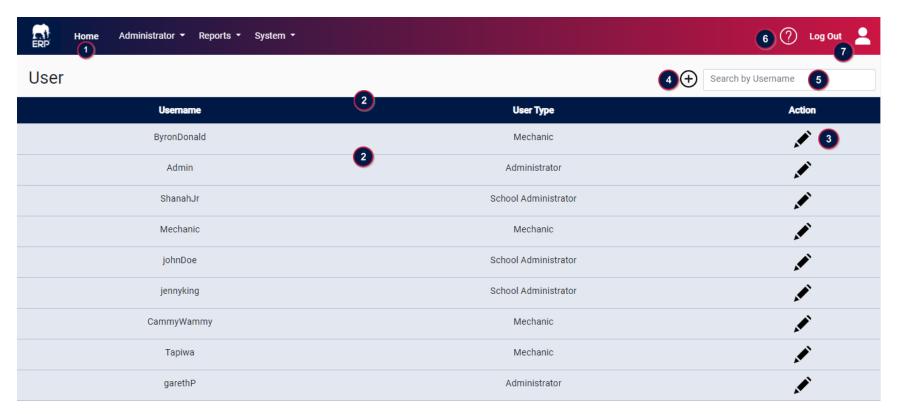


Figure 31 User Management Screen





Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	User table	Displays a list of usernames and user types
3	Pen button	Allows the user to view the specific User, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create User page
5	Search Textbox	The Super Administrator can enter in the User's details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.5.1 Create User Screen

### Screen Description

This is the User Management screen of the #Bikes4ERP web application, accessed by the clicking "Users" menu item on the "Administrator" menu icon. It allows a user to view and search all the users currently registered on the system, the user will also be able create new users as well as edit current edit user details.

ERP	Home 1	Administrator •	Reports *	System -			4 ? Log 0	ut 👱
							9	
					User			
					Name:			
					Surname:			
					Email:			
					Username:			
					admin			
					User Type:			
					~			
					Phone Number:			
					Password: (Must be a minimum of 10 characters)			
					Password must be a minimum off 10 characters.			
					Confirm Password:			
					2 Create Cancel	3		





Figure 32 Create User Screen 1

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Create Button	Creates the new user once all fields have been filled. And Displays a <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the User Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page



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#### 5.5.2 View User Screen

# Screen Description

This is the View User screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a user. It allows the user to either update or delete the requested user details.





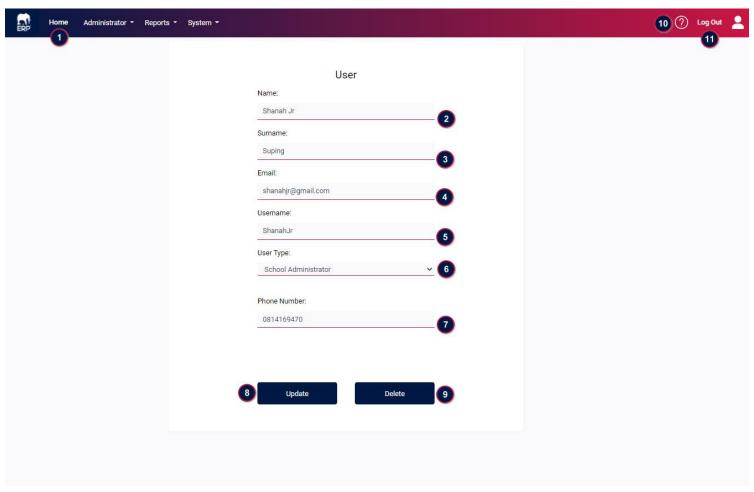


Figure 33 View User Screen 1

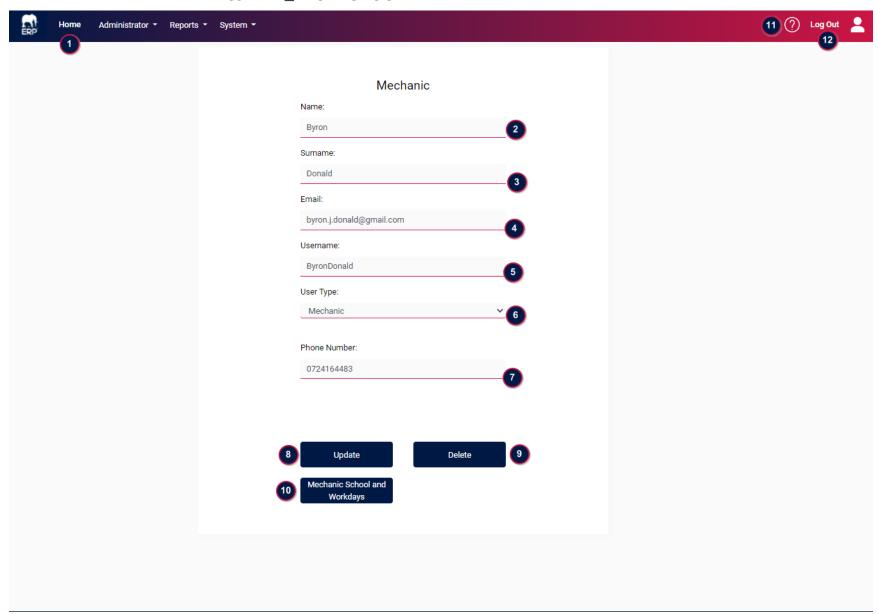




Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Name Textbox	Allows the Super Administrator to Update a User's Name
3	Surname Textbox	Allows the Super Administrator to Update a User's Surname
4	Email Textbox	Allows the Super Administrator to Update a User's Email Address
5	Username Textbox	Allows the Super Administrator to Update a User's Username
6	User Type Dropdown Menu	Allows the Super Administrator to select and Update a <b>User Type</b>
7	Phone number Textbox	Allows the Super Administrator to Update a User's Phone Number
8	Update Button	Updates the current user and displays a Success Confirmation Dialog
9	Delete Button	Deletes the current user and Displays the Delete Confirmation Dialog
10	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
11	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page







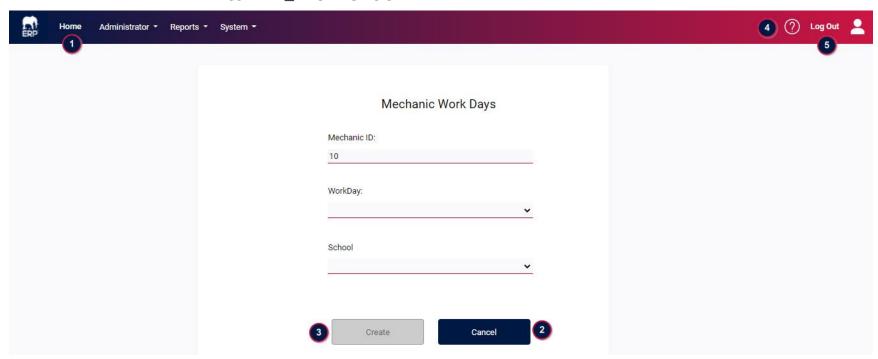




Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Name Textbox	Allows the Super Administrator to Update a User's Name
3	Surname Textbox	Allows the Super Administrator to Update a User's Surname
4	Email Textbox	Allows the Super Administrator to Update a User's Email Address
5	Username Textbox	Allows the Super Administrator to Update a User's Username
6	User Type Dropdown Menu	Allows the Super Administrator to select and Update a <b>User Type</b>
7	Phone number Textbox	Allows the Super Administrator to enter a Phone Number
8	Update Button	Updates the current user and displays a Success Confirmation Dialog
9	Delete Button	Deletes the current user and Displays the Delete Confirmation Dialog
10	Mechanic School and Workdaays	Redirects Super Administrator to the <b>Mechanic Word Days</b> page
11	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
12	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page











Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Create Button	Creates the new mechanic workday. And Displays Success Confirmation Dialog
3	Cancel Button	Redirects the Super Administrator to the View User page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.6 User Type Management Screen

### Screen Description

This is the User Type Management screen of the #Bikes4ERP web application, accessed by the clicking "User Types" menu item on the "Administrator" menu icon. It allows an Administrator to view and search all the user types currently registered on the system, the user will also be able create new user types as well as edit current edit user type details.

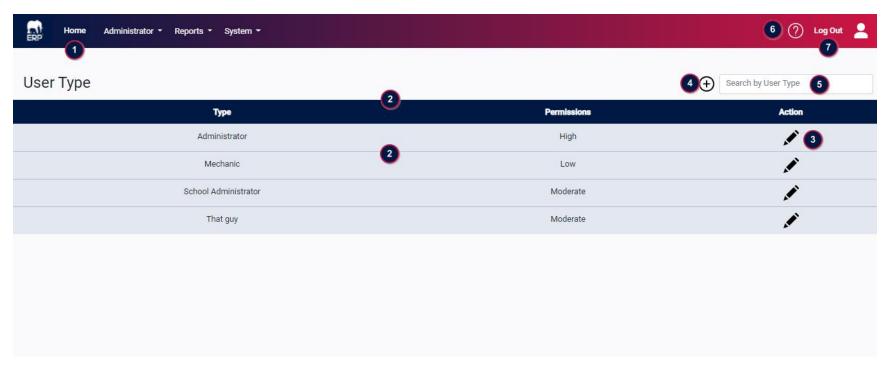


Figure 34 User Type Management Screen





-	1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
	2	User Type table	Displays a list of User Types and Permissions
	3	Pen button	Allows the user to view the specific <b>User Type</b> , Redirects To the View page
	4	Plus Button	Redirects the Super Administrator to the Create User Type page
	5	Search Textbox	The Super Administrator can enter in the User Type details to search
	6	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
	7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.6.1 Create User Type Screen

#### Screen Description

This is the Create User Type screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "User Type Management" screen. It allows an Administrator to create a new user type. The Administrator will enter the required details and proceed to click the "Create" button.

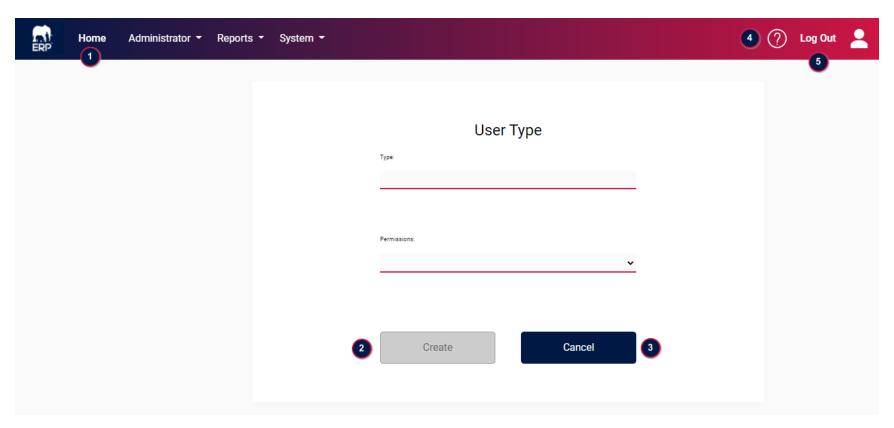


Figure 35 Create User Type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Create Button	Creates the new User Type once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the User Type Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.6.2 View User Type Screen

#### Screen Description

This is the View User Type screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a user. It allows the user to either update or delete the requested user type details.

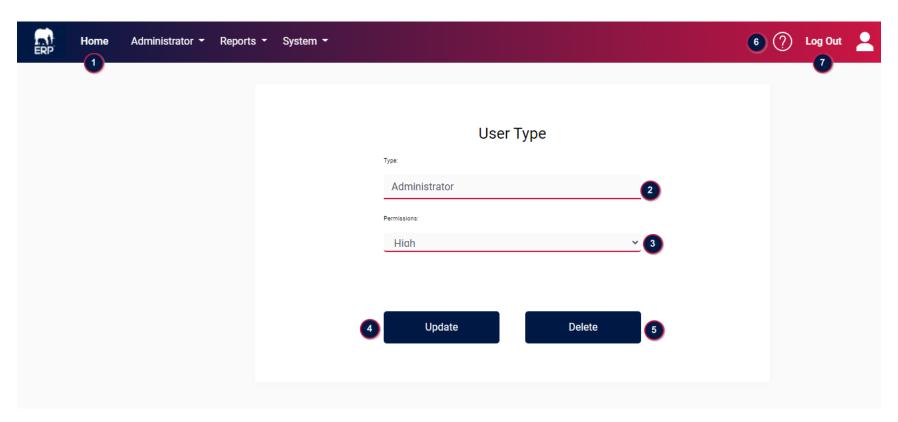


Figure 36 View User Type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> Screen.
2	Type Textbox	Allows the Super Administrator to update a <b>User Type</b>
3	Permission Textbox	Allows the Super Administrator to select and update a User type Permissions
4	Update Button	Updates the current user type and displays a Success Confirmation Dialog
5	Delete Button	Deletes the current user type and Displays the Delete Confirmation Dialog
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.7 Antenna Management Screen

#### Screen Description

This is the Antenna Management screen of the #Bikes4ERP web application, accessed by the clicking "Antennas" menu item on the "Administrator" menu icon. It allows an Administrator to view and search all the antennas currently registered on the system, the user will also be able create new antennas as well as edit current edit antennas details.

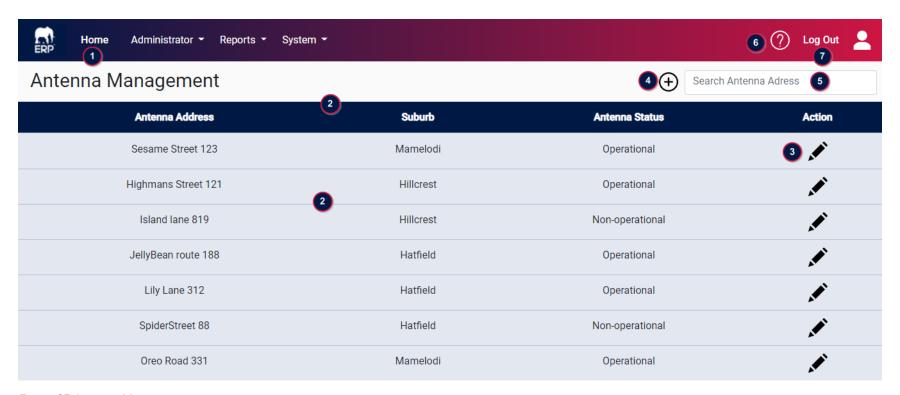


Figure 37 Antenna Management screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the Super Administrator to the Bikes4ERP Home page.
2	Antenna table	Displays a list of Antenna Address, Suburb and Status for each Antenna
3	Pen button	Allows the Super Administrator to view a specific <b>Antenna</b> , Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Antenna page
5	Search Textbox	The Super Administrator can enter in the Antenna details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.7.1 Create Antenna Screen

#### Screen Description

This is the Create Antenna screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Antennas Management" screen. It allows an Administrator to create a new antenna. The Administrator will enter the required details and proceed to click the "Create" button.

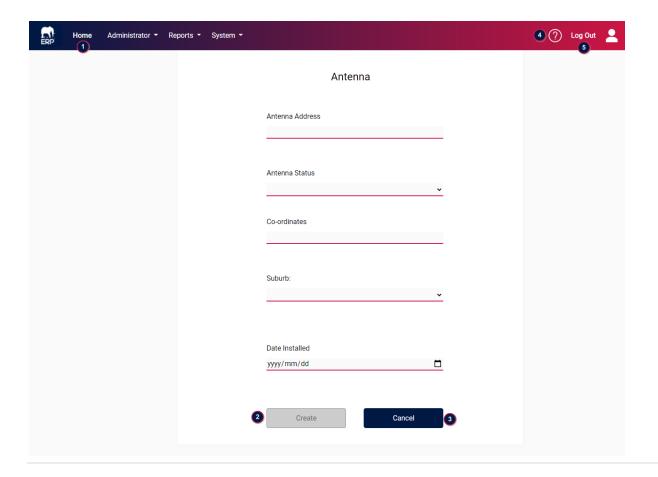






Figure 38 Create Antenna screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Antenna once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Antenna Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects School Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.7.2 View Antenna Screen

### Screen Description

This is the View Antenna screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on an antenna. It allows the user to either update or delete the requested antenna details.

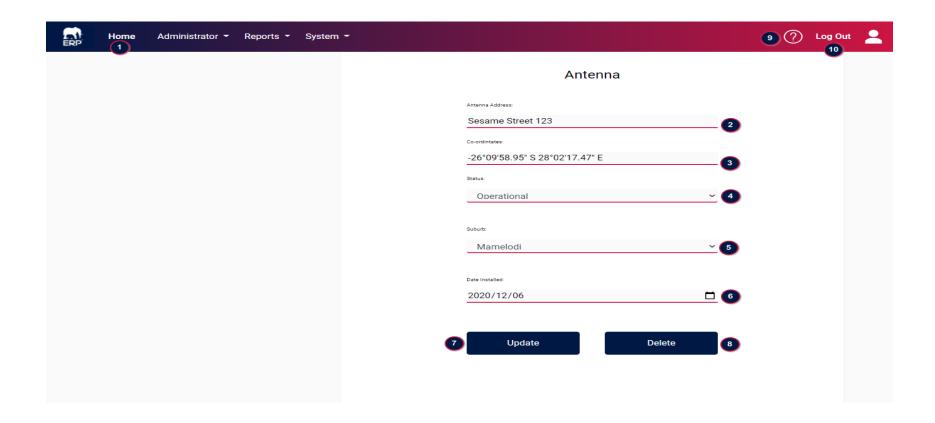


Figure 39 View Antenna screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Antenna Address Textbox	Allows the Super Administrator to Update an Antenna's Address
3	Co-ordinates Textbox	Allows the Super Administrator to Update an Antenna's Co-ordinates
4	Status Textbox	Allows the Super Administrator to Update an Antenna's Status
5	Suburb Dropdown Menu	Allows the Super Administrator to select and Update an Antenna's Suburb
6	Date Installed Date- Picker	Allows the Super Administrator to select and Update an Antenna's Date Installed
7	Update Button	Updates the current Antenna and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Antenna and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.8 Tag Management Screen

#### Screen Description

This is the Tag Management screen of the #Bikes4ERP web application, accessed by the clicking "Tags" menu item on the "Administrator" menu icon. It allows an Administrator to view and search all the tags currently registered on the system, the user will also be able create new tags as well as edit current edit tags details.



Figure 40 Tag Management screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the Super Administrator to the Bikes4ERP <b>Home</b> page.
2	Tag table	Displays a list of Tag Serial numbers, Bicycle Code and Status for each Tag
3	Pen button	Allows the Super Administrator to view a specific Tag, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Tag page
5	Search Textbox	The Super Administrator can enter in the Tag details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.8.1 Create Tag Screen

### Screen Description

This is the Create Tag screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Tag Management" screen. It allows an Administrator to create a new tag. The Administrator will enter the required details and proceed to click the "Create" button.

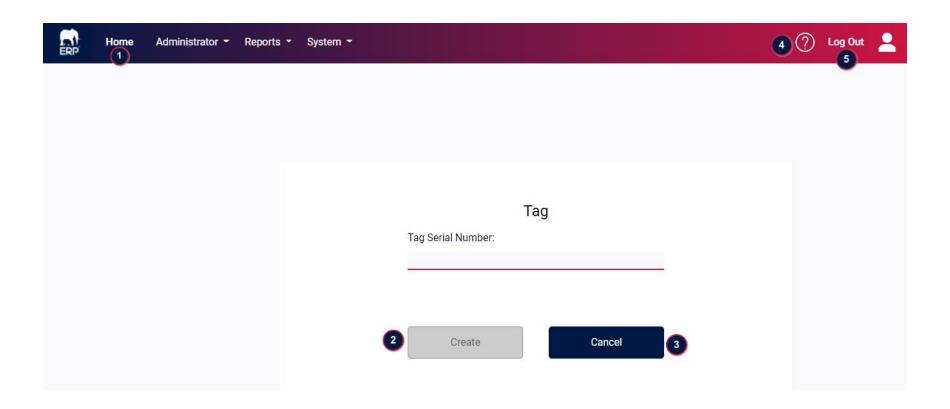


Figure 41 Create Tag screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Tag once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Tag Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the Logout option, then it will log the Super Administrator out of

the system and Redirects to the Home page





#### 5.8.2 View Tag Screen

## Screen Description

This is the View Tag screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a tag. It allows the user to either update or delete the requested tags details.

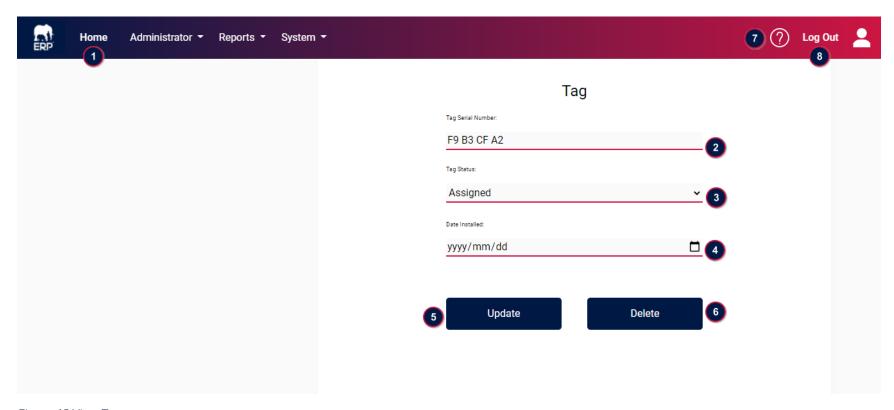


Figure 42 View Tag screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Serial Number Textbox	Allows the Super Administrator to Update a Tag's Serial Number
3	Status Dropdown Menu	Allows the Super Administrator to select and Update a Tag's Status
4	Date Installed Date- Picker	Allows the Super Administrator to select and Update a Tag's Date Installed
5	Update Button	Updates the current Tag and displays a Success Confirmation Dialog
6	Delete Button	Deletes the current Tag and Displays the Delete Confirmation Dialog
7	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
8	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.9 Bicycle Part Management Screen

#### Screen Description

This is the Bicycle Part Management screen of the #Bikes4ERP web application, accessed by the clicking "Bicycle Part "menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Bicycle Parts currently on the system, the user will also be able create a new Bicycle Part as well as edit the Bicycle Part details.

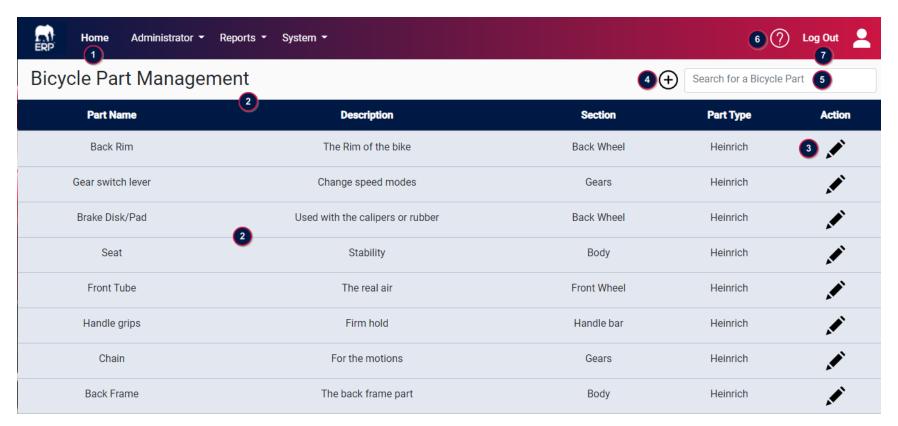


Figure 43 Bicycle Part Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Bicycle table	Displays a list of Bicycle Part Name, Description, Section and Part Type for each Bicycle
3	Pen button	Allows the Super Administrator to view a specific Bicycle Part, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Bicycle Part page
5	Search Textbox	The Super Administrator can enter in the Bicycle Part details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.9.1 Create Bicycle Part Screen

### Screen Description

This is the Create Bicycle Part screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Bicycle Part Management" screen. It allows a Super Administrator to create a new Bicycle Part. The user will enter the required details and proceed to click the "Create" button.

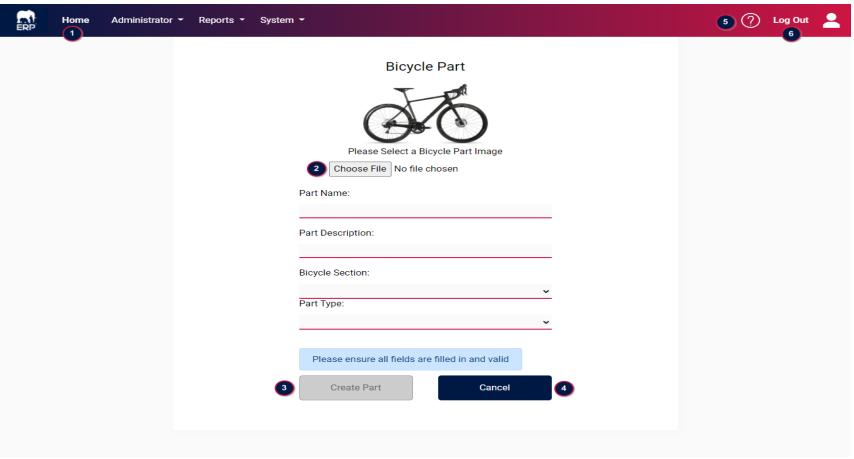


Figure 44 Create Bicycle Part Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Choose File Button	Allows the Super Administrator to upload a Bicycle Part Picture
3	Create Button	Creates the new Bicycle Part once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
4	Cancel Button	Redirects the Super Administrator to the Bicycle Part Management page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page



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#### 5.9.2 View Bicycle Part Screen

## Screen Description

This is the View Bicycle Part screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Bicycle Part. It allows the user to either update or delete the requested Bicycle Part details.

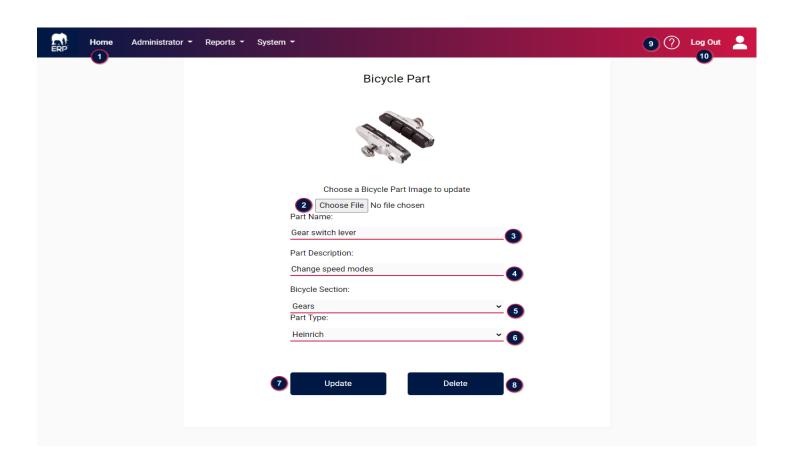


Figure 45 View Bicycle Part Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Choose File Button	Allows the Super Administrator to upload a Bicycle Part Picture
3	Part Name Textbox	Allows the Super Administrator to Update a Part Name
4	Part Description Textbox	Allows the Super Administrator to Update a Section Description
5	Bicycle Section Dropdown Menu	Allows the Super Administrator to select and Update a Bicycle <b>Section</b>
6	Part Type Dropdown Menu	Allows the Super Administrator to select and Update a Bicycle Part Type
7	Update Button	Updates the current Bicycle Part and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Bicycle Part and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.10Bicycle Section Management Screen

### Screen Description

This is the Bicycle Section Management screen of the #Bikes4ERP web application, accessed by the clicking "Bicycle Section" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Bicycle Section currently on the system, the user will also be able create a new Bicycle Section as well as edit the Bicycle Section details.

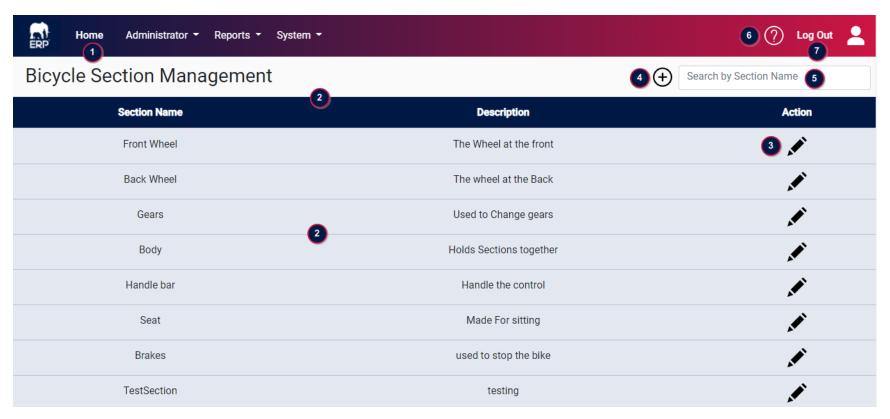


Figure 46 Bicycle Section Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP <b>Home</b> page.
2	Bicycle table	Displays a list of Bicycle Section Name and Description for each section
3	Pen button	Allows the Super Administrator to view a specific Bicycle Section, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Bicycle Section page
5	Search Textbox	The Super Administrator can enter in the Bicycle Section details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.10.1 Create Bicycle Section Screen

### Screen Description

This is the Create Bicycle Section screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Bicycle Section Management" screen. It allows a Super Administrator to create a new Bicycle Section. The user will enter the required details and proceed to click the "Create" button.

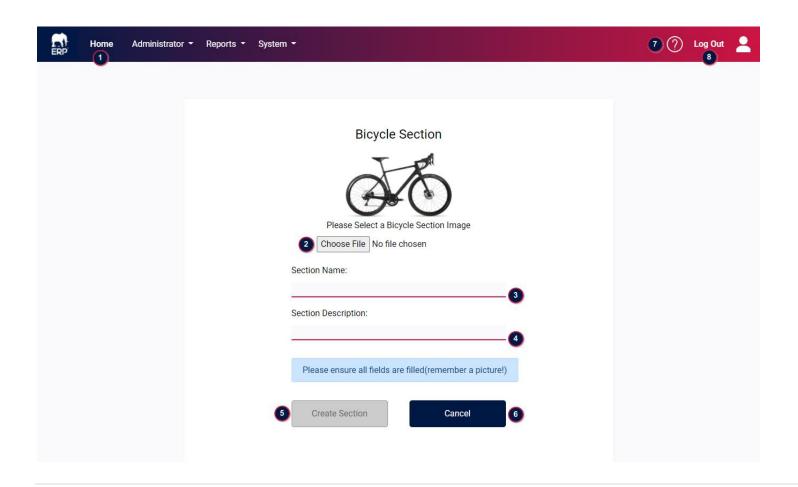






Figure 47 Create Bicycle Section Screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Choose File Button	Allows the Super Administrator to upload a Bicycle Section Picture
3	Create Button	Creates the new Bicycle Section once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
4	Cancel Button	Redirects the Super Administrator to the Bicycle Section Management page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.10.2View Bicycle Section Screen

## Screen Description

This is the View Bicycle Section screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Bicycle Section. It allows the user to either update or delete the requested Bicycle Section details.

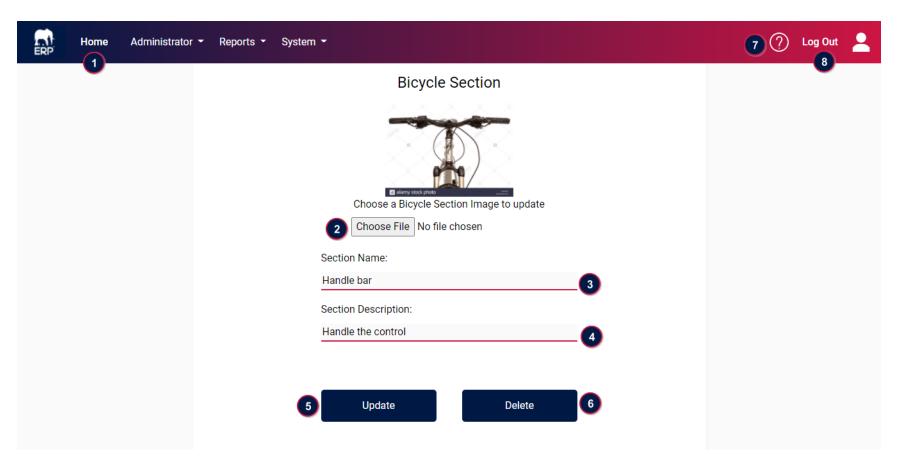


Figure 48 View Bicycle Section Screen





Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Choose File Button	Allows the Super Administrator to upload a Bicycle Section Picture
3	Section Name Textbox	Allows the Super Administrator to Update a Section Name
4	Section Description Textbox	Allows the Super Administrator to Update a Section Description
7	Update Button	Updates the current Bicycle Section and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Bicycle Section and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.11 Log Entry Screen

### Screen Description

This is the Log Entry screen of the #Bikes4ERP web application, accessed by the clicking "Log" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Log Entries currently on the system.

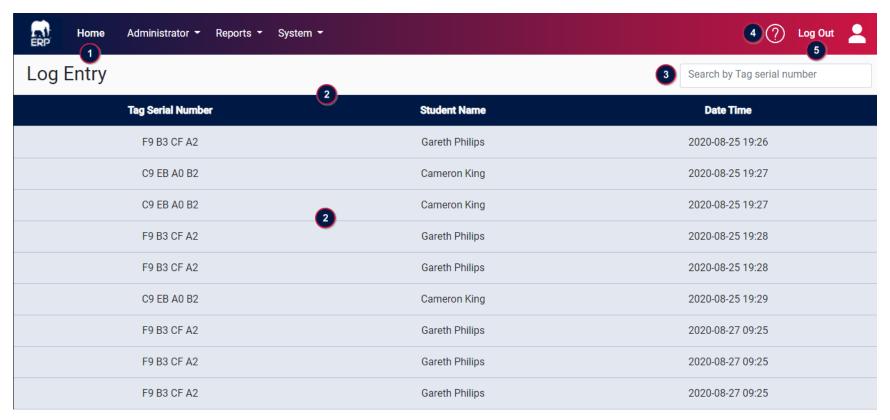


Figure 49 Search Log Entry Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the Super Administrator to the Bikes4ERP Home page.
2	Log table	Displays a list of Tag Serial numbers, Student Name and Date Time for each Tag
3	Search Textbox	The Super Administrator can enter in the Log details to search
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





## 5.12 Route Management Screen

### Screen Description

This is the Route Management screen of the #Bikes4ERP web application, accessed by the clicking "Route" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Routes currently on the system, the user will also be able create a new Route as well as edit the Route details.

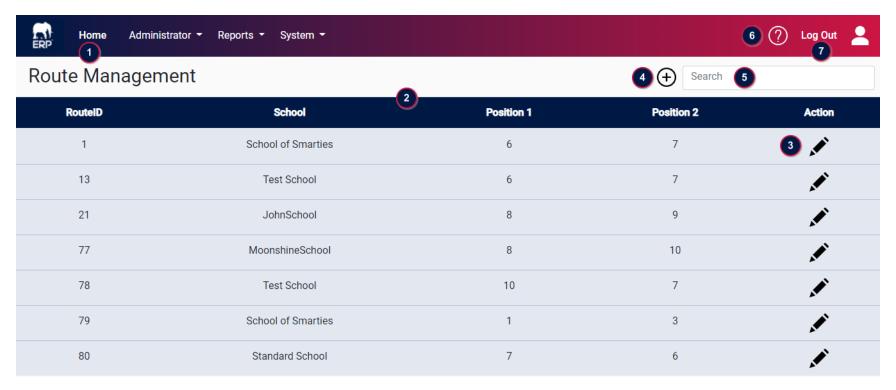


Figure 50 Route Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP <b>Home</b> page.
2	Route table	Displays a list of Route ID, School, Position 1 and Position 2 for each Route
3	Pen button	Allows the Super Administrator to view a specific Route, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Route page
5	Search Textbox	The Super Administrator can enter in the Route details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.12.1 Create Route Screen

## Screen Description

This is the Create Route screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Route Management" screen. It allows a Super Administrator to create a new Route. The user will enter the required details and proceed to click the "Create" button.

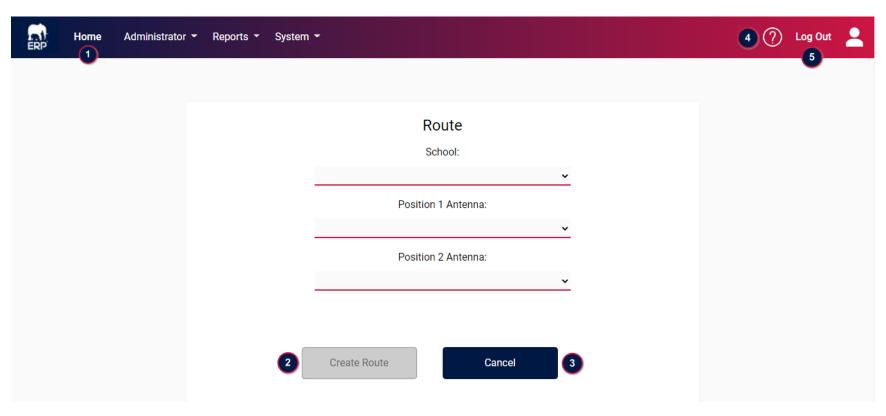


Figure 51 Create Route Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Route once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Route Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page



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#### 5.12.2 View Route Screen

## Screen Description

This is the View Route screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Route. It allows the user to either update or delete the requested Route details.

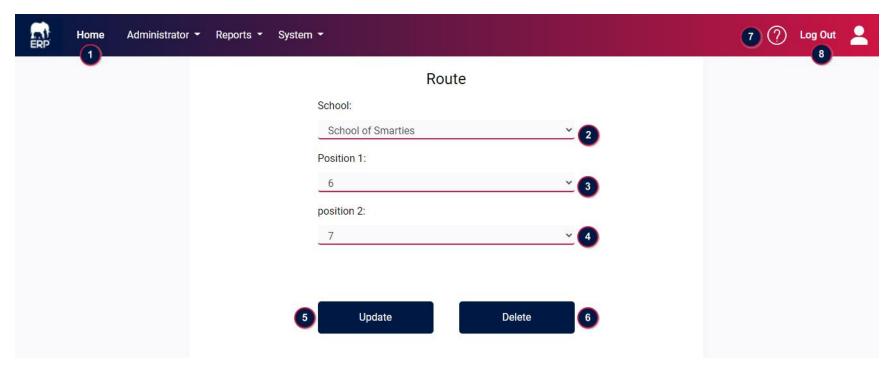


Figure 52 View Route Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	School Dropdown Menu	Allows the Super Administrator to select and Update a Route School
3	Position 1 Dropdown Menu	Allows the Super Administrator to select and Update a Route Position 1
4	Position 2 Dropdown Menu	Allows the Super Administrator to select and Update a Route Position 2
5	Update Button	Updates the current Route and displays a Success Confirmation Dialog
6	Delete Button	Deletes the current Route and Displays the Delete Confirmation Dialog
7	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
8	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.13 Fault Task Management Screen

### Screen Description

This is the Fault Task Management screen of the #Bikes4ERP web application, accessed by the clicking "Fault Task" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Fault Task currently on the system, the user will also be able create a new Fault Task as well as edit the Fault Task details.

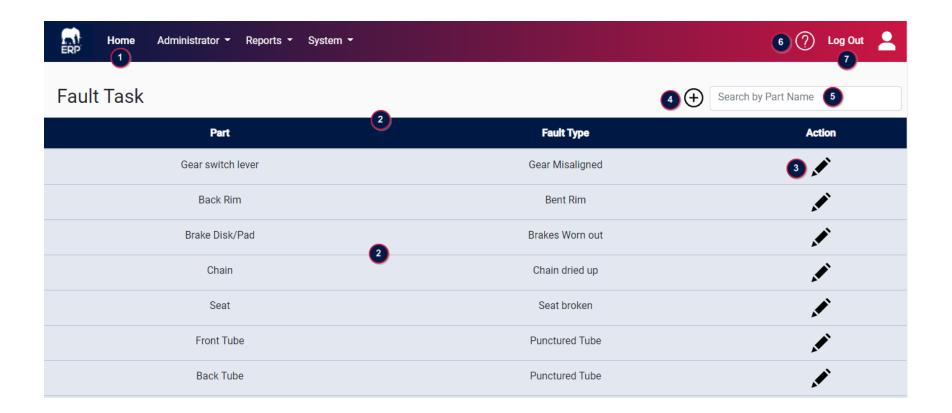


Figure 53 Fault Task Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP <b>Home</b> page.
2	Fault Task table	Displays a list of Bicycle Part and Fault Type for each Fault task
3	Pen button	Allows the Super Administrator to view a specific Fault Task, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Fault Task page
5	Search Textbox	The Super Administrator can enter in the Fault Task details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.13.1 Create Fault Task Screen

## Screen Description

This is the Create Fault Task screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Fault Task Management" screen. It allows a Super Administrator to create a new Fault Task. The user will enter the required details and proceed to click the "Create" button.

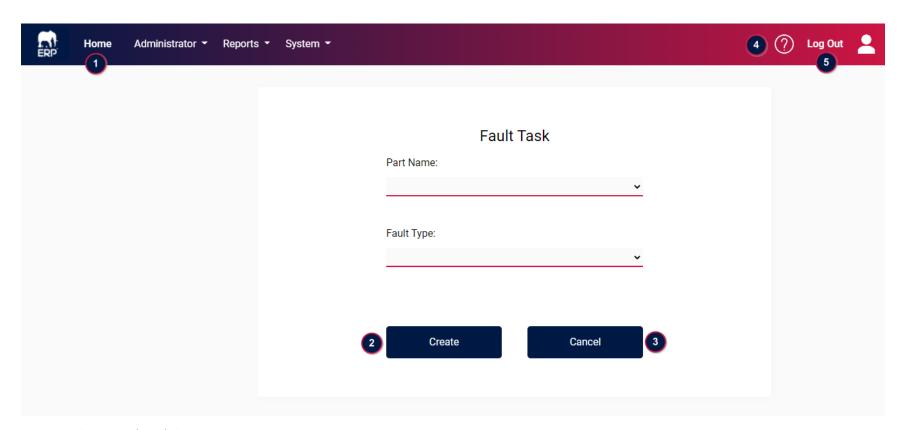


Figure 54 Create Fault Task Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Fault Task once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Fault Task Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.13.2 View Fault Task Screen

## Screen Description

This is the View Fault Task screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Fault Task. It allows the user to either update or delete the requested Fault Task details.

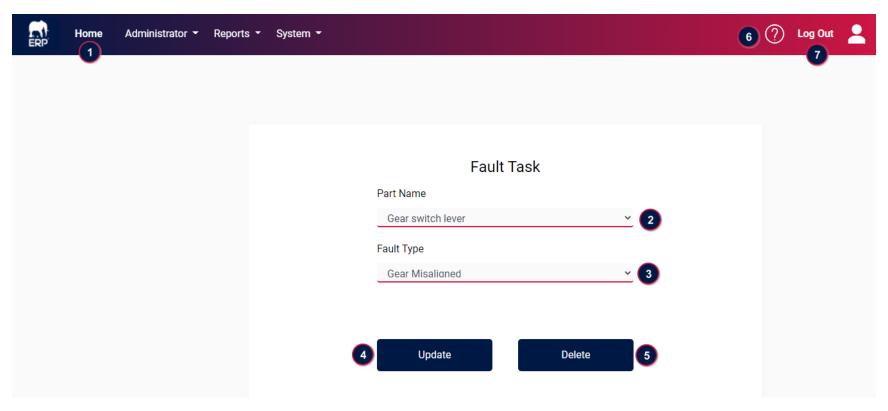


Figure 55 View Fault Task Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Part Name Dropdown Menu	Allows the Super Administrator to select and Update a Fault Task Part Name
3	Fault type Dropdown Menu	Allows the Super Administrator to select and Update a Fault Task Fault Type
4	Update Button	Updates the current Fault Task and displays a Success Confirmation Dialog
5	Delete Button	Deletes the current Fault Task and Displays the Delete Confirmation Dialog
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.14 Maintenance Task Management Screen

### Screen Description

This is the Maintenance Task Management screen of the #Bikes4ERP web application, accessed by the clicking "Maintenance Task" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Maintenance Task currently on the system, the user will also be able create a new Maintenance Task as well as edit the Maintenance Task details.



Figure 56 Maintenance Task Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Maintenance Task table	Displays a list of Maintenance Task and Maintenance Type for each Maintenance task
3	Pen button	Allows the Super Administrator to view a specific <b>Maintenance Task</b> , Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Maintenance Task page
5	Search Textbox	The Super Administrator can enter in the Maintenance Task details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.14.1 Create Maintenance Task Screen

## Screen Description

This is the Create Maintenance Task screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Maintenance Task Management" screen. It allows a Super Administrator to create a new Maintenance Task. The user will enter the required details and proceed to click the "Create" button.

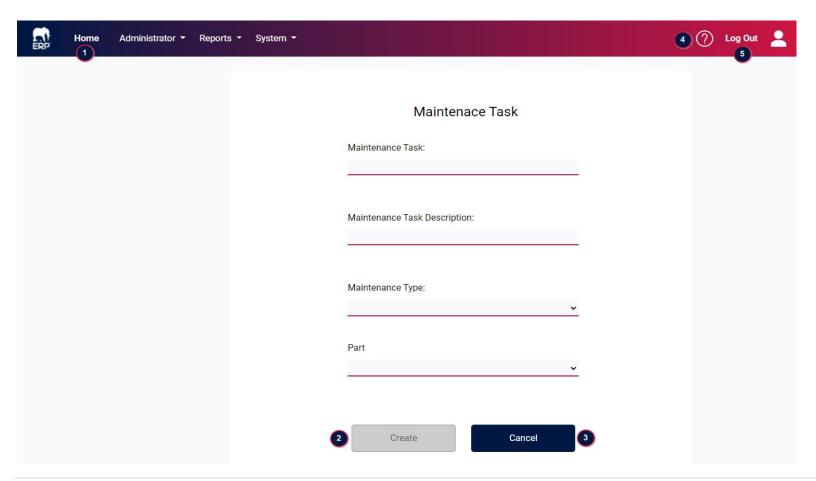






Figure 57 Create Maintenance Task Screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Maintenance Task once all fields have been filled. And Displays Success Confirmation Dialog
3	Cancel Button	Redirects the Super Administrator to the Maintenance Task Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.14.2 View Maintenance Task Screen

## Screen Description

This is the View Maintenance Task screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Maintenance Task. It allows the user to either update or delete the requested Maintenance Task details.

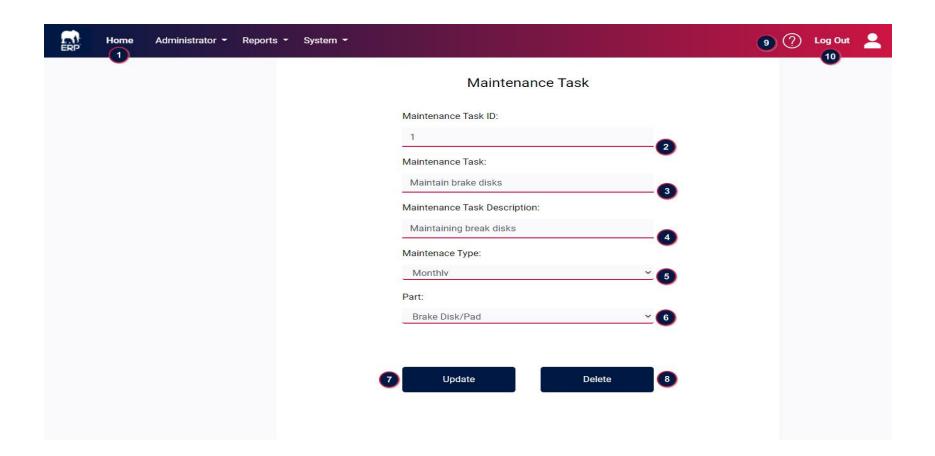






Figure 58 View Maintenance Task Screen

Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Maintenance Task ID Textbox	Allows the Super Administrator to Update a Maintenance Task ID
3	Maintenance Task Textbox	Allows the Super Administrator to Update a Maintenance Task
4	Maintenance Task Description Textbox	Allows the Super Administrator to Update a Maintenance Task Description
5	Maintenance Type Section Dropdown Menu	Allows the Super Administrator to select and Update a Maintenance <b>Type</b>
6	Part Dropdown Menu	Allows the Super Administrator to select and Update a Maintenance Part
7	Update Button	Updates the current Maintenance Task and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Maintenance Task and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.15 School Management Screen

### Screen Description

This is the School Management screen of the #Bikes4ERP web application, accessed by the clicking "School Management" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Schools currently on the system, the user will also be able create new School as well as edit the School details.

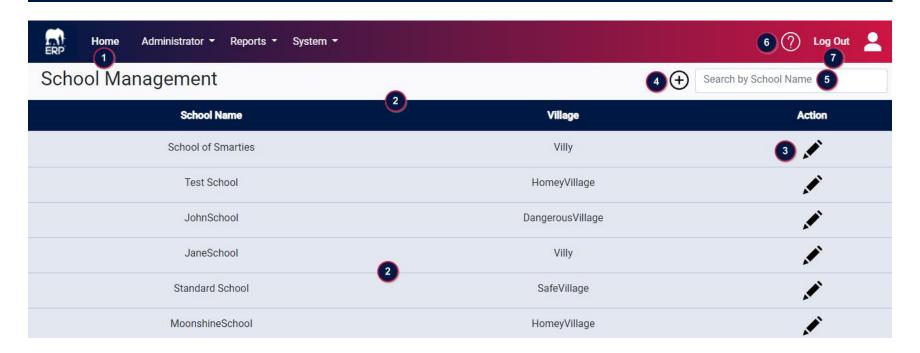


Figure 59 School Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	School table	Displays a list of School Name and Village for each School
3	Pen button	Allows the Super Administrator to view a specific School, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create School page
5	Search Textbox	The Super Administrator can enter in the School details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.15.1 Create School Screen

### Screen Description

This is the Create School screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "School Management" screen. It allows a Super Administrator to create a new School. The user will enter the required details and proceed to click the "Create" button.

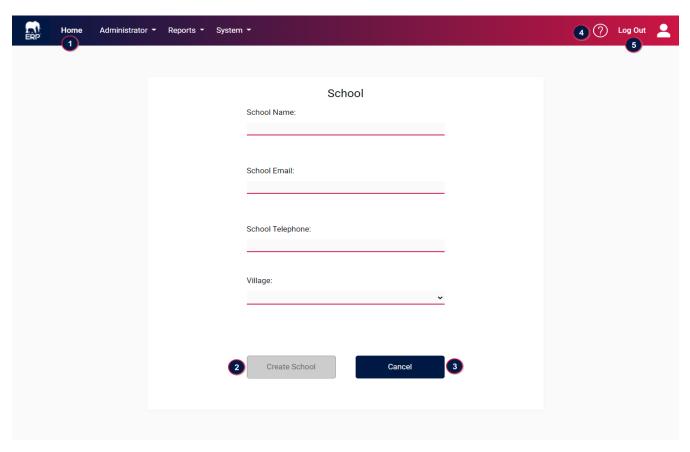


Figure 60 Create School Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new School once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the School Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.15.2View School Screen

### Screen Description

This is the View School screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a School. It allows the user to either update or delete the requested School details.

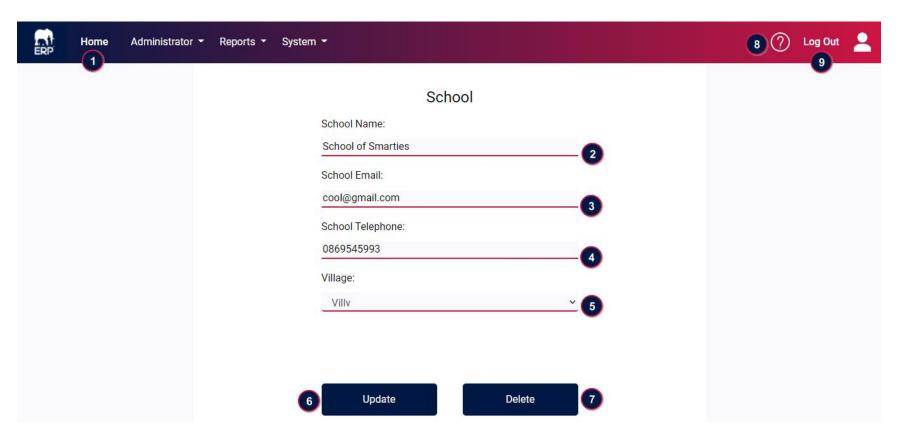


Figure 61 View School Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	School Name Textbox	Allows the Super Administrator to Update a School Name
3	School Email Textbox	Allows the Super Administrator to Update a School Email
4	School Telephone Textbox	Allows the Super Administrator to Update a School Telephone
5	Village Dropdown Menu	Allows the Super Administrator to select and Update a School Village
6	Update Button	Updates the current School and displays a Success Confirmation Dialog
7	Delete Button	Deletes the current School and Displays the Delete Confirmation Dialog
8	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
9	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.16 Reports

#### 5.16.1 Mechanic Schedule Report

### Screen Description

This is the Mechanic Schedule Report screen of the #Bikes4ERP web application, accessed by the clicking "Mechanic Schedule" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Mechanic Schedule for the Selected Time frame. The User is also able to Download this report in Excel or PDF format for the selected Time frame.

#### Mechanic Schedule Report Explanation

This report shows a simple list table that contains the following information:

- Job Code: This is the Job identifier code that can be used to identify a unique job to be done by a mechanic.
- Bicycle Code: This is the unique bicycle identifier number that will be visible on the bicycle.
- Student Name: This is the full name of the student using the bicycle with mechanic jobs on display.
- Job Type: This is the classification to differentiate between the category that a mechanic job falls under.
- Student Contact: This is the contact number that is used to notify the student using the bicycle of jobs.
- Guardian Contact: This is the contact number belonging to the student's Guardian in case of emergencies, etc.
- Date Scheduled: This indicates the date that specific jobs were scheduled to be done within the parameters.

This report is utilized by the Administrator to extract the mechanic schedule that can be emailed to the Mechanics with the specific jobs, ahead of time. The date parameters are the bounds of the data that gets displayed.





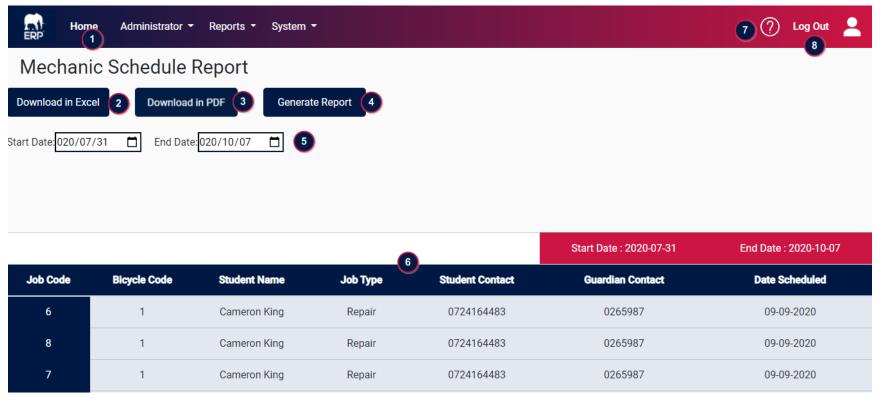


Figure 62 Mechanic Schedule Report Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download in Excel Button	Allows the User to download the Mechanic Schedule Report in Excel format
3	Download in PDF Button	Allows the User to download the Mechanic Schedule Report in PDF format
4	Generate Report Button	Generates the Mechanic Schedule Report for the selected dates
5	Date Picker	Allows the User to select the start and end date of the Mechanic Schedule Report
6	Report Table	Displays the Mechanic Schedule Report for the selected dates
7	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
8	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 5.16.2 Mechanic Schedule Requirements Report

### Screen Description

This is the Mechanic Schedule Requirements Report screen of the #Bikes4ERP web application, accessed by the clicking "Mechanic Schedule Requirements" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Mechanic Schedule Requirements for the Selected Time frame. The User is also able to Download this report in Excel format for the selected Time frame.

#### Mechanic Schedule Requirements Report Explanation

This report shows a simple list table that contains the following information:

- Job Code: This is the Job identifier code that can be used to identify a unique job to be done by a mechanic.
- Bicycle Code: This is the unique bicycle identifier number that will be visible on the bicycle.
- Student Name: This is the full name of the student using the bicycle with mechanic jobs on display.
- Job Type: This is the classification to differentiate between the category that a mechanic job falls under.
- Date Scheduled: This indicates the date that specific jobs were scheduled to be done within the parameters.

There mini-table displays information on what parts the mechanic needs to have ready for the jobs on display.

- Parts Needed: This is the name of the part that is needed for replacement or completing the pending jobs.
- Quantity: This is the count of the parts that are needed for replacement or completing the pending jobs.

This report is utilized by the Administrator to extract the mechanic schedule requirements report that can be emailed to the Mechanics with the specific jobs, ahead of time. This prepares them, as they know what to bring ahead of time (parts, tools, etc.). The date parameters are the bounds of the data that gets displayed.





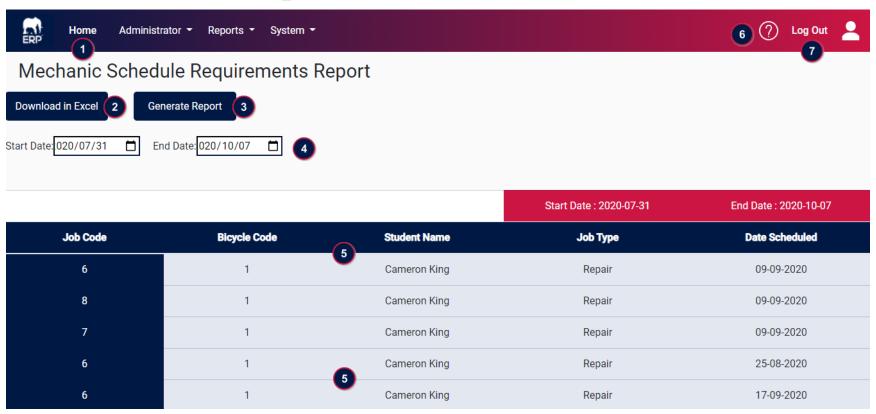


Figure 63 Mechanic Schedule Requirements Report Screen



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1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download in Excel Button	Allows the User to download the Mechanic Schedule Requirements Report in Excel format
3	Generate Report Button	Generates the Mechanic Schedule Requirements Report for the selected dates
4	Date Picker	Allows the User to select the start and end date of the Mechanic Schedule Requirements Report
5	Report Table	Displays the Mechanic Schedule Requirements Report for the selected dates
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 5.16.3 Generate Student Report

#### Screen Description

This is the Student Report screen of the #Bikes4ERP web application, accessed by the clicking "Student Report" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Student Report for the Selected Time frame. The User is also able to Download this report in Excel format for the selected Time frame.

#### Student Report Explanation

This report is a Management Report with several sub-tables and control breaks. They show the following information:

- Graph: This is a visualization tool that gives a high-level overview of how school attendance correlates with student overall performance per school, within the specified criteria.
- Sub-Tables: This is a tabular display of all individual students within each school, clearly showing their average academic mark within that specified time period, including their attendance percentage then as well.

This report is utilized by the Administrator to assess the impact that the bicycles' usage has on academic performance. The date parameters are the bounds of the data that gets displayed.





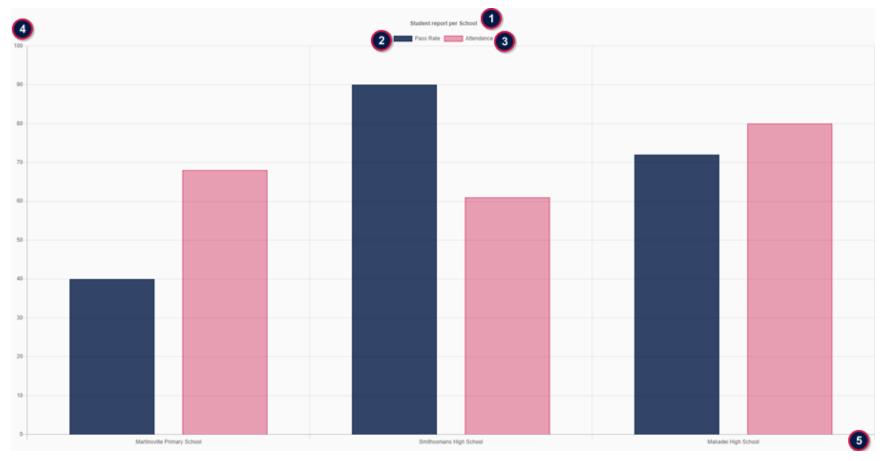


Figure 64 Student Report Screen Part 2





#### Description Number Item Displays the Heading of the Chart on display Label Legend icon Indicates the Legend of the Pass Rate Dataset 2 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. Graph X-axis 5 Indicates the X-axis values indicating the school names with the different Datasets





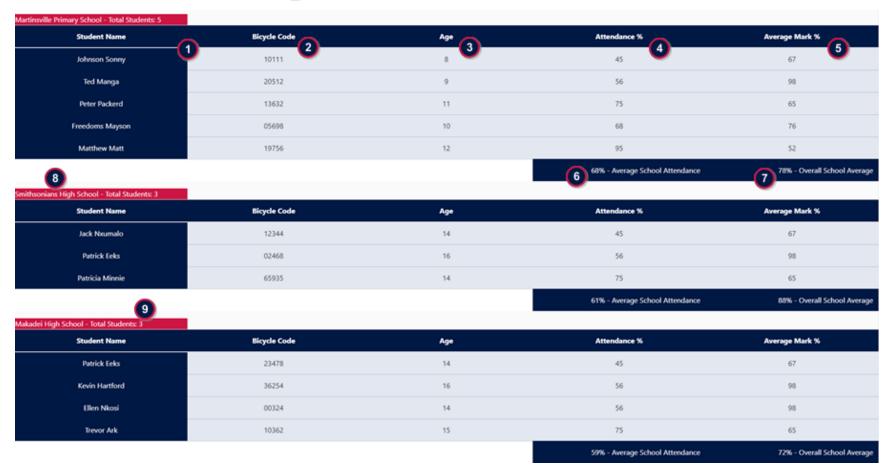


Figure 65 Student Report Screen Part 3





Number	ltem	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 66 Student Report Screen Part 4

Number	ltem	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
Success 1		
Student Report has be	en downloaded successfully.	
	Ok 3	

Figure 67 Student Report has been successfully downloaded Screen

Number	ltem	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
		1/015





#### Screen Description

This is the Bicycle History Report screen of the #Bikes4ERP web application, accessed by the clicking "Bicycle History" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Bicycle History Report for the Selected Time frame. The User is also able to Download this report in Excel format for the selected Time frame.

#### 5.16.4Bicycle History Report

#### Bicycle History Report Explanation

This report is a Transaction Report with several sub-tables and control breaks. The determining parameters for the displayed data are: The specific School that the Administrator wants to analyze, & the Job Type that he wants to assess. They show the following information:

- Sub-Tables: This is a tabular display of all individual jobs completed per bicycle, clearly showing the completion date within that specified criteria.
- Job Code: This is the Job identifier code that can be used to identify jobs connected or related to the bicycle.
- Specific Reported Job ID: This is the unique job identifier number, depending on whether it is a maintenance job or a repair job.
- Student Name: This is the full name of the student using or assigned the bicycle with mechanic jobs on display. If they were assigned at the time, their name will display.
- Date Completed: This indicates the date that specific jobs were completed within the parameters. If they're not completed, "Pending" is displayed in place of the date and time.
- Bicycle Code: This is the unique bicycle identifier number that will be visible on the bicycle.



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• Status: This is the individual status of the bicycles, whether they are currently assigned to a student, broken or available for assignment.

This report is utilized by the Administrator to assess the "health" of the bicycles'. Key areas in need of attention become clearer.

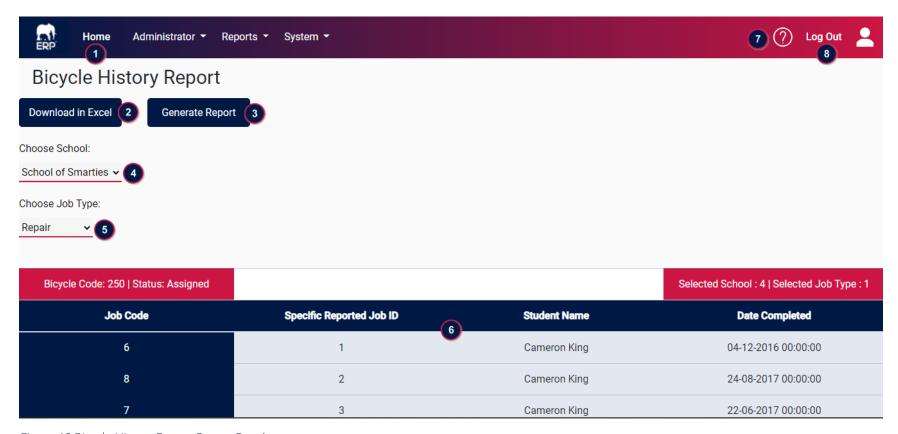


Figure 68 Bicycle History Report Screen Part 1





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download in Excel Button	Allows the User to download the Mechanic Schedule Report in Excel format
3	Generate Report Button	Generates the Mechanic Schedule Report for the selected dates
4	School Dropdown Menu	Allows the User to select a <b>School</b> for the report
5	Job Type Dropdown Menu	Allows the User to select a <b>Job Type</b> for the report
6	Report Table	Displays the Bicycle History Report for the selected dates
7	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
8	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 5.16.5Log Report

#### Screen Description

This is the Log Report screen of the #Bikes4ERP web application, accessed by the clicking "Log" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Log Report for the Selected Time frame. The User is also able to Download this report in Excel format for the selected Time frame.

#### Log Report Explanation

This report is a Transaction Report with several sub-tables and control breaks. The determining parameters for the displayed data are a start and end date that he/she wants to assess. They show the following information:

- Sub-Tables: This is a tabular display of all individual RFID tags that were detected past a certain Antenna on their assigned route. per detecting BLE Antenna, clearly showing the activity past certain antennas.
- Tag Serial Number: This is the Tag identifier code that can be used to identify a specific tag that is on a bicycle.
- Bicycle Code: This is the unique bicycle identifier number that will be visible on the bicycle.
- Student Name: This is the full name of the student using or assigned the bicycle with log entries on display.
- School: This is the name of the school where the student on display, is enrolled
- Entry Date: This indicates the date that tag had registered activity past the antenna on display.
- Entry Time: This indicates the time that tag had registered activity past the antenna on display
- Status: This is the individual status of the tag on a bicycle, whether they are currently operational, broken or available for assignment.

This report is utilized by the Administrator to assess the bicycle activity and traffic on antennas. Key areas in need of attention become clearer, e.g., a high demand antenna that is Non-Operational.





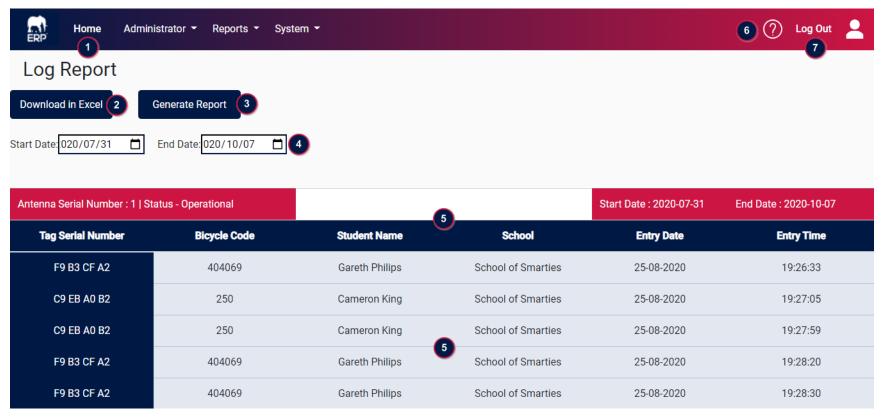


Figure 69 Log Report Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download in Excel Button	Allows the User to download the Log Report in Excel format
3	Generate Report Button	Generates the Log Report for the selected dates
4	Date Picker	Allows the User to select the start and end date of the Log Report
5	Report Table	Displays the Log Report for the selected dates
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





#### 5.16.6 Parts Used Report

#### Screen Description

This is the Parts Used Report screen of the #Bikes4ERP web application, accessed by the clicking "Parts Used" menu item on the "Reports" menu icon. It allows a Super Administrator to generate and view the Parts Used Report for the Selected Time frame. The User is also able to Download this report in Excel format for the selected Time frame.

#### Parts Used Report Explanation

This report shows a simple list table that contains the following information:

- Job: This is the classification to differentiate between the category that a mechanic job falls under.
- Bicycle Code: This is the unique bicycle identifier number that will be visible on the bicycle.
- Student Name: This is the full name of the student using the bicycle with mechanic jobs on display.
- Job Code: This is the Job identifier code that can be used to identify a unique job to be done by a mechanic.
- Date Completed: This indicates the date that specific jobs were completed to be done within the parameters.
- Time Completed: This indicates the time that specific jobs were completed to be done within the parameters.

There mini-table displays information on what parts the mechanic used for the completed jobs on display.

- Parts Needed: This is the name of the part that was used or worked on in the job.
- Quantity: This is the count of the parts that are were used or worked on in the job.

This report is utilized by the Administrator to extract the parts used report. This can be used to assess what is breaking often and when most jobs get completed. Can assist with a mini-inventory management. The date parameters are the bounds of the data that gets displayed.





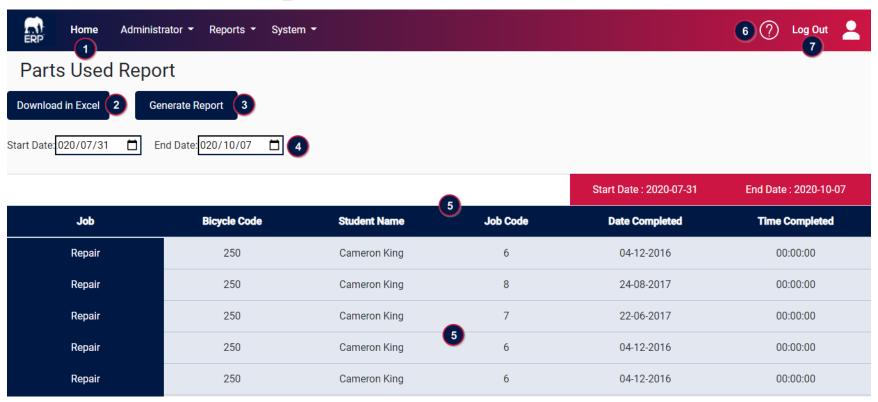


Figure 70 Parts Used Report Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download in Excel Button	Allows the User to download the Parts Used Report in Excel format
3	Generate Report Button	Generates the Parts Used Report for the selected dates
4	Date Picker	Allows the User to select the start and end date of the Parts Used Report
5	Report Table	Displays the Parts Used Report for the selected dates
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects User Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the User out of the system and Redirects to the Home page





### 5.17 Audit Trail Management Screen

#### Screen Description

This is the Audit Trail Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Audit Trail" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Audit Trail entries currently on the system.

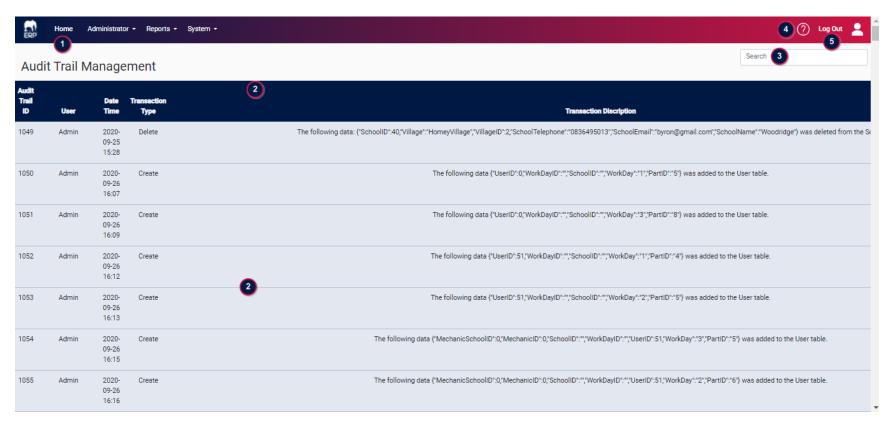


Figure 71 Audit Trail Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the Super Administrator to the Bikes4ERP <b>Home</b> page.
2	Audit Trail table	Displays a list of AuditTrail ID, User, Date/Time, Transaction Type and Transaction Description for each Audit Trail Entry
3	Search Textbox	The Super Administrator can enter in the Audit Trail Entry details to search
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.18 Business Rule Management Screen

#### Screen Description

This is the Business Rule Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Business Rules" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Business Rules currently on the system, the user will also be able create new Business Rules as well as edit Business Rules details.

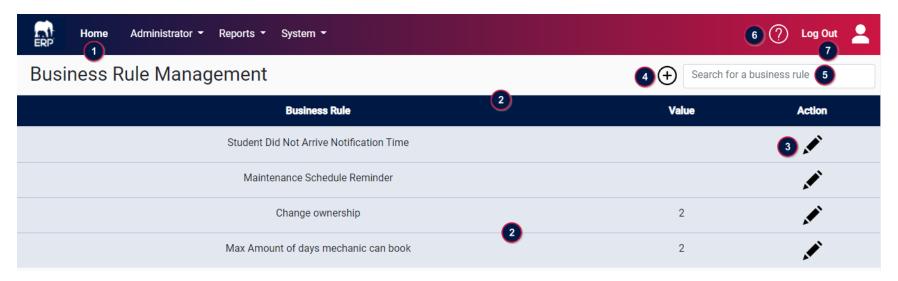


Figure 211 Business Rules Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Business Rules table	Displays a list of a Business Rule and Values for each Business Rule
3	Pen button	Allows the Super Administrator to view a specific <b>Business Rule</b> , Redirects to the View page
4	Plus Button	Redirects the Super Administrator to the Create Business Rule page
5	Search Textbox	The Super Administrator can enter in the Business Rule details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.18.1 Create Business Rule Screen

### Screen Description

This is the Create Business Rule screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Business Rule Management" screen. It allows a Super Administrator to create a new Business Rule. The user will enter the required details and proceed to click the "Create" button.

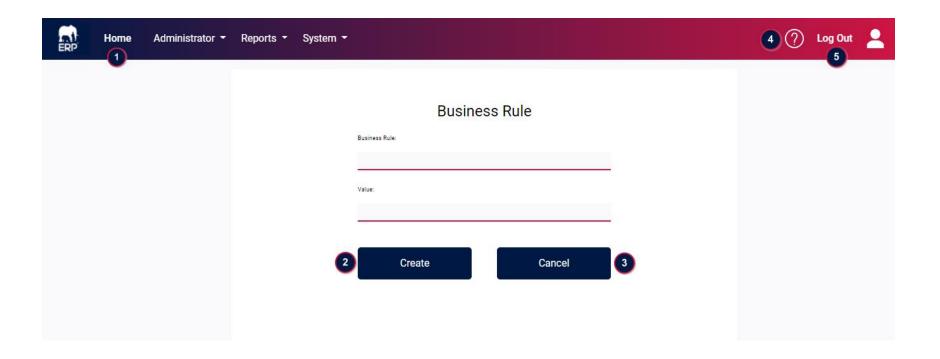


Figure 72 Create Business Rule Screen





Number	Item	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Business Rule once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Business Rule Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.18.2 View Business Rule Screen

### Screen Description

This is the View Business Rule screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Business Rule. It allows the user to either update or delete the requested Business Rule details.

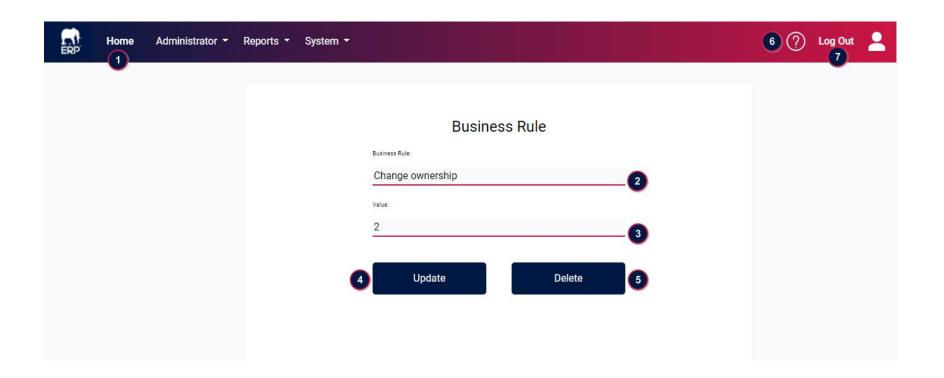


Figure 73View Business Rule Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Business Rule Textbox	Allows the Super Administrator to Update a Business Rule
3	Value Textbox	Allows the Super Administrator to Update a Business Rule Value
4	Update Button	Updates the current Business Rule and displays a Success Confirmation Dialog
5	Delete Button	Deletes the current Business Rule and Displays the Delete Confirmation Dialog
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.19 Document Management Screen

### Screen Description

This is the Document Management screen of the #Bikes4ERP web application, accessed by the clicking "Manage Document" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Documents currently on the system, the user will also be able create new Documents as well as edit Document details.

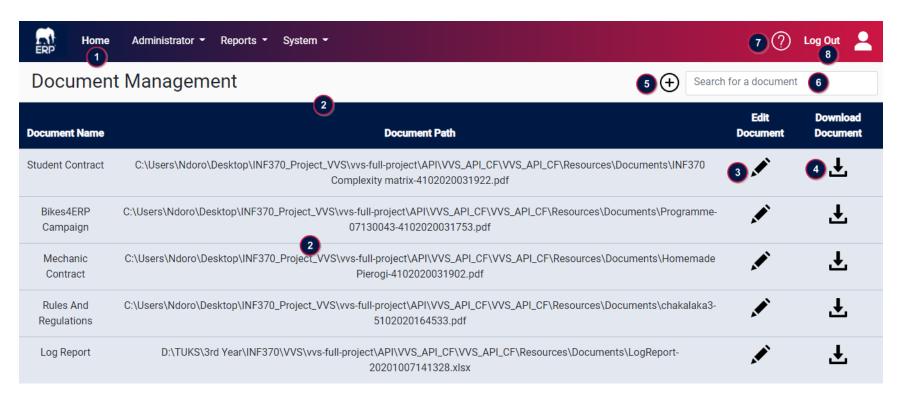


Figure 74Document Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Document Management table	Displays a list of a Document Name and Document Path for each Document
3	Pen button	Allows the Super Administrator to view a specific <b>Document</b> , Redirects To the View page
4	Download button	Allows the Super Administrator to download a specific Document
5	Plus Button	Redirects the Super Administrator to the Create Document page
6	Search Textbox	The Super Administrator can enter in the Business Rule details to search
7	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
8	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.19.1 Create Document Screen

### Screen Description

This is the Create Document screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Document Management" screen. It allows a Super Administrator to create a new Document. The user will enter the required details and proceed to click the "Create" button.

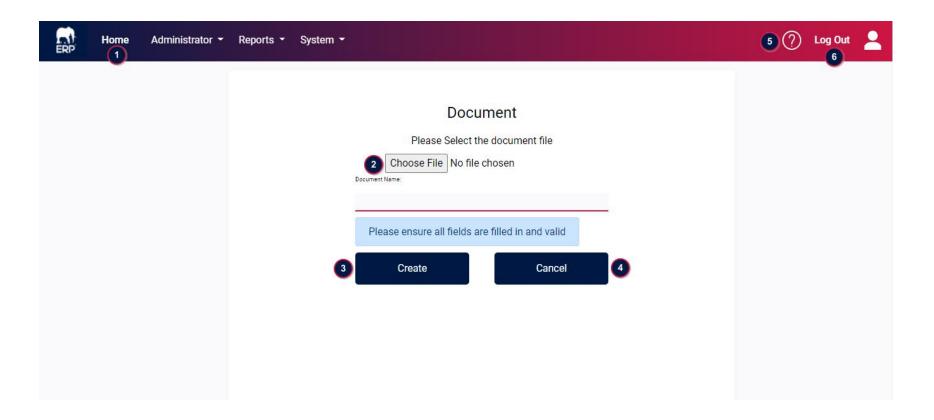


Figure 75 Create Document





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Choose File Button	Allows the Super Administrator to upload a Bicycle Part Picture
3	Create Button	Creates the new Document once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
4	Cancel Button	Redirects the Super Administrator to the Document Management page
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.19.2 View Document Screen

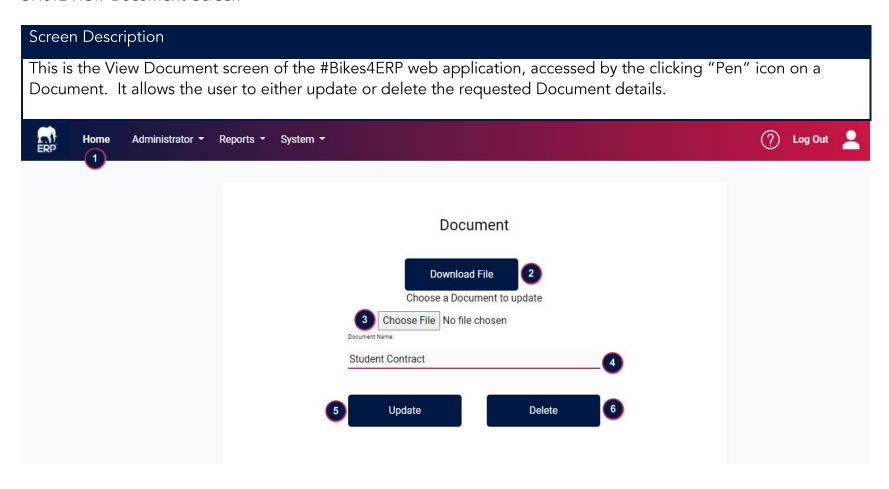


Figure 76View Document Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Download File Button	Allows the User to download the current file
3	Choose File Button	Allows the Super Administrator to upload a File
3	Document Name Textbox	Allows the Super Administrator to Update a Document Name
7	Update Button	Updates the current Bicycle Part and displays a Success Confirmation Dialog
8	Delete Button	Deletes the current Bicycle Part and Displays the Delete Confirmation Dialog
9	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
10	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.20 Bicycle Brand Management Screen

#### Screen Description

This is the Bicycle Brand Management screen of the #Bikes4ERP web application, accessed by the clicking "Bicycle Brands" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Bicycle Brands currently on the system, the user will also be able create new Bicycle Brands as well as edit Bicycle Brand details.

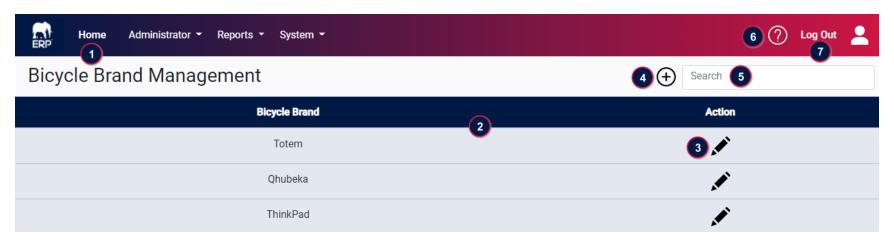


Figure 77 Bicycle Brand management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Bicycle Brand table	Displays a list of a Bicycle Brands
3	Pen button	Allows the Super Administrator to view a specific <b>Bicycle Brand</b> , Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Bicycle Brand page
5	Search Textbox	The Super Administrator can enter in the Bicycle Brand details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.20.1Create Bicycle Brand Screen

#### Screen Description

This is the Create Bicycle Brand screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Bicycle Brand Management" screen. It allows a Super Administrator to create a new Bicycle Brand. The user will enter the required details and proceed to click the "Create" button.

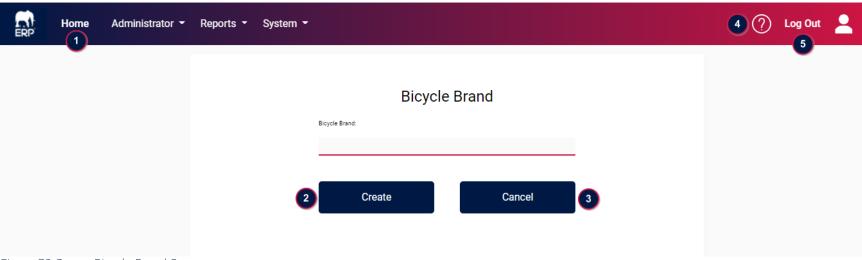


Figure 78 Create Bicycle Brand Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Bicycle Brand once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Bicycle Brand Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.20.2 View Bicycle Brand Screen

### Screen Description

This is the View Bicycle Brand screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Bicycle Brand. It allows the user to either update or delete the requested Bicycle Brand details.

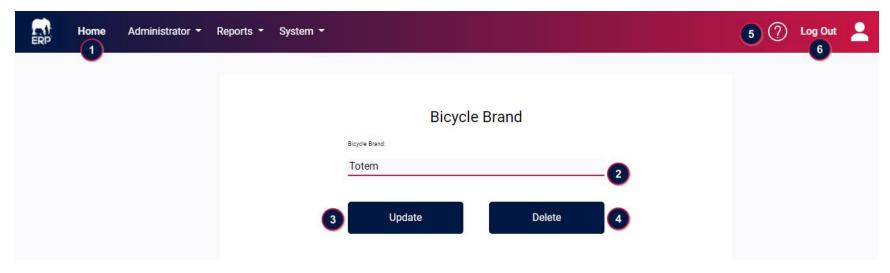


Figure 79 View Bicycle brand Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Bicycle Brand Textbox	Allows the Super Administrator to Update a Bicycle Brand
3	Update Button	Updates the current Business Rule and displays a Success Confirmation Dialog
4	Delete Button	Deletes the current Business Rule and Displays the Delete Confirmation Dialog
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.21Fault Type Management Screen

#### Screen Description

This is the Fault Type Management screen of the #Bikes4ERP web application, accessed by the clicking "Fault Types" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Fault Type currently on the system, the user will also be able create new Fault Type as well as edit Fault Type details.

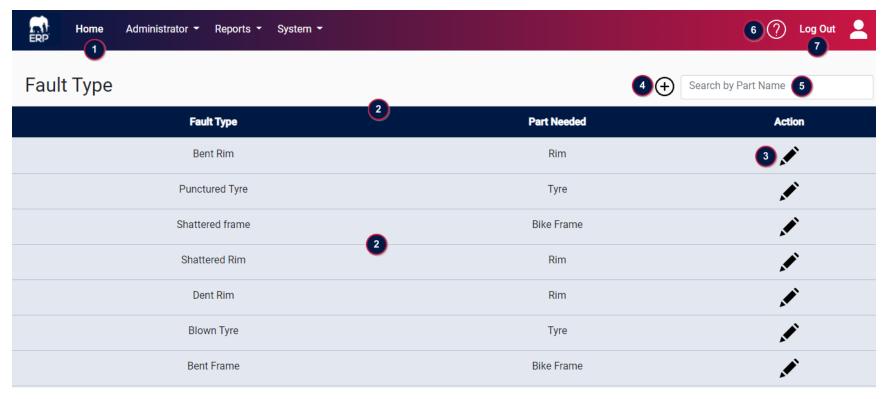


Figure 80 Fault Type Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Fault Type table	Displays a list of a Fault Type and Parts Needed for each Fault Type
3	Pen button	Allows the Super Administrator to view a specific Fault Type, Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Fault Type page
5	Search Textbox	The Super Administrator can enter in the Bicycle Brand details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.21.1 Create Fault Type Screen

#### Screen Description

This is the Create Fault Type screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Fault Type Management" screen. It allows a Super Administrator to create a new Fault Type. The user will enter the required details and proceed to click the "Create" button.

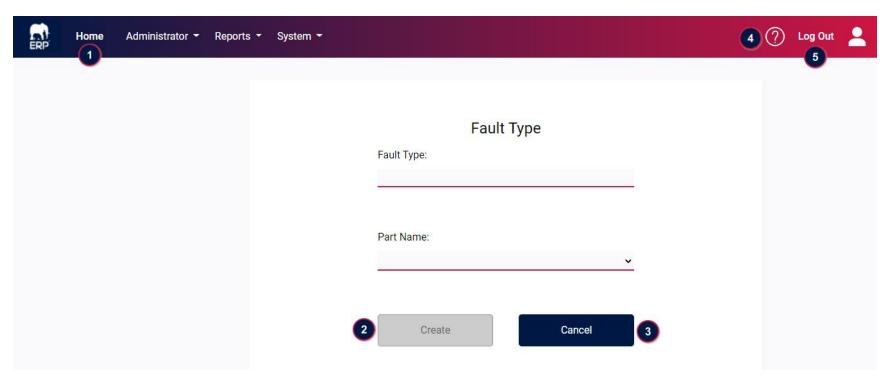


Figure 81 Create Fault type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Fault Type once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Fault Type Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.21.2 View Fault Type Screen

#### Screen Description

This is the View Fault Type screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Fault Type. It allows the user to either update or delete the requested Fault Type details.

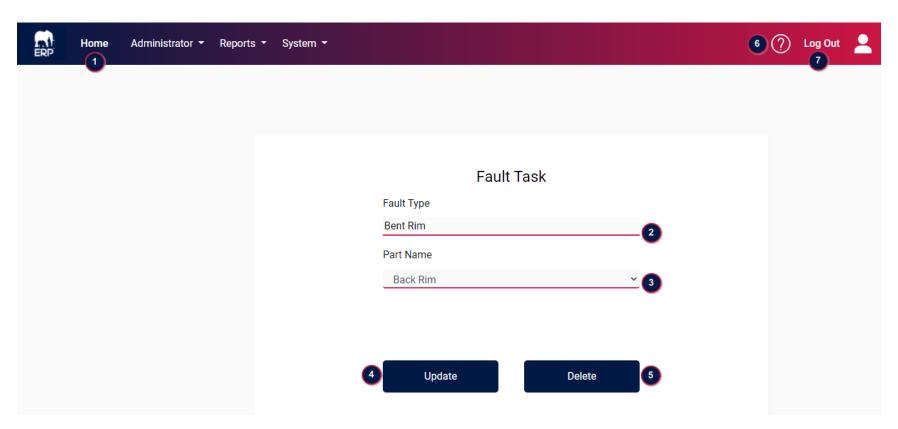


Figure 82 View Fault Task Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Fault Type Textbox	Allows the Super Administrator to Update a Fault Type
3	Part Name Dropdown Menu	Allows the Super Administrator to select and Update a Part Name
4	Update Button	Updates the current Fault Type and displays a Success Confirmation Dialog
5	Delete Button	Deletes the current Fault Type and Displays the Delete Confirmation Dialog
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### 5.22 Part Type Management Screen

#### Screen Description

This is the Part Type Management screen of the #Bikes4ERP web application, accessed by the clicking "Part Types" menu item on the "Administrator" menu icon. It allows a Super Administrator to view and search all the Part Types currently on the system, the user will also be able create new Part Type as well as edit Part Type details.

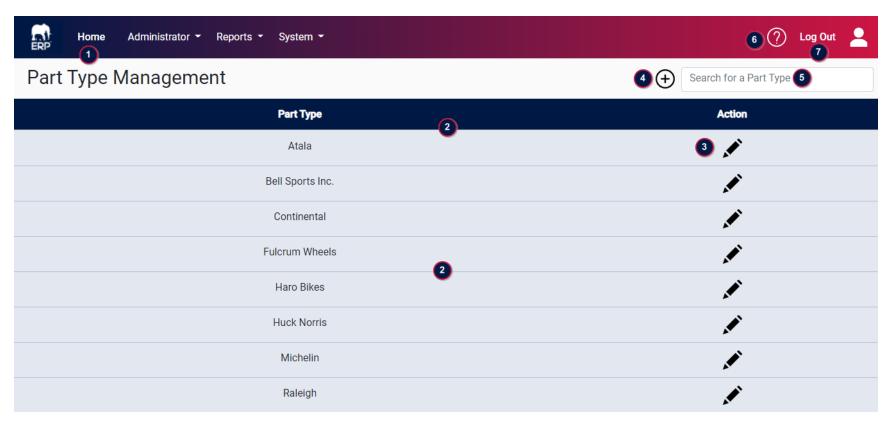


Figure 83 Fault Type Management Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the School Administrator to the Bikes4ERP Home page.
2	Part Type table	Displays a list of a Fault Type and Parts Needed for each Part Type
3	Pen button	Allows the Super Administrator to view a specific <b>Part Type</b> , Redirects To the View page
4	Plus Button	Redirects the Super Administrator to the Create Part Type page
5	Search Textbox	The Super Administrator can enter in the Part Type details to search
6	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
7	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### 5.22.1Create Part Type Screen

#### Screen Description

This is the Create Part Type screen of the #Bikes4ERP web application, accessed by the clicking "Plus" icon on the "Part Type Management" screen. It allows a Super Administrator to create a new Part Type. The user will enter the required details and proceed to click the "Create" button.

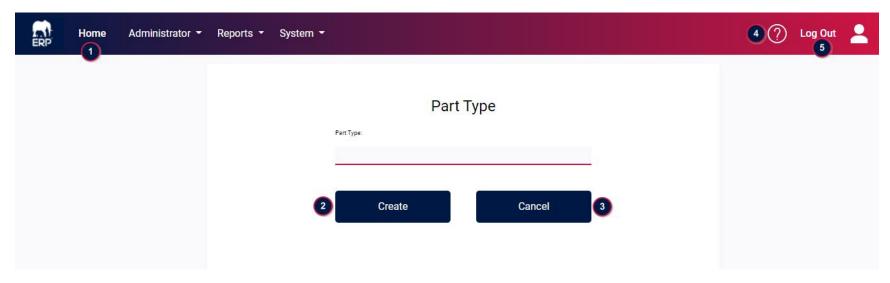


Figure 84 Create Fault type Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Create Button	Creates the new Fault Type once all fields have been filled. And Displays <b>Success Confirmation</b> Dialog
3	Cancel Button	Redirects the Super Administrator to the Fault Type Management page
4	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
5	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





#### #Bikes4ERP\_VVS - GROUP 17

#### 5.22.2 View Part Type Screen

### Screen Description

This is the View Part Type screen of the #Bikes4ERP web application, accessed by the clicking "Pen" icon on a Part Type. It allows the user to either update or delete the requested Part Type details.

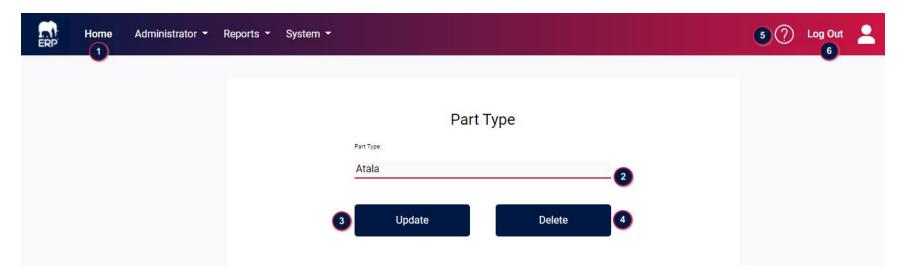


Figure 85 View Fault Task Screen





Number	ltem	Description
1	Navigation Bar: Home Button	Redirects the User to the Bikes4ERP <b>Home</b> page.
2	Part Type Textbox	Allows the Super Administrator to Update a Part Type
3	Update Button	Updates the current Fault Type and displays a Success Confirmation Dialog
4	Delete Button	Deletes the current Fault Type and Displays the Delete Confirmation Dialog
5	Help Button	If the user clicks on the <b>Help</b> option, Redirects Super Administrator to the <b>Help</b> document
6	Logout Button	If the User clicks on the <b>Logout</b> option, then it will log the Super Administrator out of the system and Redirects to the Home page





### #Bikes4ERP\_VVS - GROUP 17

## 6 Error Messages

## 6.1 Logging in

Error Message	Description
"Incorrect Username or	The inputted Username or Password does not match an existing password or
Password.	username stored in the database. Please confirm you have entered the
Please try again."	correct information or alternatively you can reset your password by clicking
	"Forgot Password?" button and follow the steps.

## 6.2 Forgot Password

Error Message	Description
"This email does not exist.	The inputted Email does not match any of the emails of existing users in
Please try again."	stored in the database. Please confirm you have entered the correct email address.

### 6.3 User

Error Message	Description
"Please enter a"	<ul><li>First name</li><li>Field is empty</li><li>Only characters</li></ul>





### #Bikes4ERP\_VVS - GROUP 17

	<ul><li>Surname</li></ul>
	- Field is empty
	- Only characters
	■ Email
	- Must contain special characters (@, .com/.co.za)
	- Must be valid email address
	- Field is empty
	■ Username
	- Field is empty
	- Only characters
	- Unique
	<ul><li>Phone number</li></ul>
	- Only numbers (10 min and max)
	- Must start with 0
	■ Password
	- Must be 10 characters/numbers
"Please ensure all fields are	The user you are currently viewing has a required field that is empty.
filled in and valid."	

## 6.4 User Type

Error Message	Description
"Please enter a"	<ul><li>Type</li><li>Field is empty</li><li>Only characters</li></ul>





### #Bikes4ERP\_VVS - GROUP 17

"Please select a"	<ul><li>Permissions level</li><li>Select a valid combo box option</li></ul>
"Please ensure all fields are filled in and valid."	The user type you are currently viewing has a required field that is empty.

## 6.5 Bicycle Brand

Error Message	Description
"Please enter a"	<ul><li>Bicycle Brand</li><li>Field is empty</li><li>Only characters</li></ul>
"Please ensure all fields are filled in and valid."	<ul> <li>The bicycle brand you are currently viewing has a required field that is empty.</li> </ul>

## 6.6 Bicycle Part

Error Message	Description
"Please ensure all fields are filled in and valid."	<ul> <li>The bicycle part you are currently creating/viewing has a required field that is empty.</li> </ul>





## 6.7 Bicycle Section

Error Message	Description
"Please ensure all fields are filled (remember a picture!)"	<ul> <li>The bicycle section you are currently creating/viewing has a required field that is empty.</li> </ul>

### 6.8 School

Error Message	Description
"Please enter a"	<ul> <li>School name         <ul> <li>Field is empty</li> <li>Only characters</li> </ul> </li> <li>School Email         <ul> <li>Must contain special characters (@, .com/.co.za)</li> <li>Must be valid email address</li> </ul> </li> <li>Username         <ul> <li>Field is empty</li> <li>Only characters</li> <li>Unique</li> </ul> </li> <li>School Telephone         <ul> <li>Only numbers (10 min and max)</li> <li>Must start with 0</li> </ul> </li> </ul>





### #Bikes4ERP\_VVS - GROUP 17

Please select a"	<ul><li>Village</li><li>Select a valid combo box option</li></ul>
"Please ensure all fields are filled in and valid."	The user you are currently viewing has a required field that is empty.

## 6.9 Tag

Error Message	Description
"Please enter a"	<ul><li>Tag Serial Number</li></ul>
	- Field is empty
"The entered details already	The unique identifier (Username, Bicycle Code, Tag Serial Number etc.) for
exist in the database.	the object you are trying to create already exists in the database. Please
Please try again with different	input unique details and try again.
details."	

### 6.10 Antenna

Error Message	Description
---------------	-------------





### #Bikes4ERP\_VVS - GROUP 17

"Please enter a"	<ul> <li>Antenna Address         <ul> <li>Field is empty</li> </ul> </li> <li>Co-ordinates         <ul> <li>Field is empty</li> </ul> </li> <li>Date Installed         <ul> <li>Field is empty</li> <li>Must follow format: "yyyy/mm/dd"</li> </ul> </li> </ul>
Please select a"	<ul> <li>Antenna Status         <ul> <li>Select a valid combo box option</li> </ul> </li> <li>Suburb         <ul> <li>Select a valid combo box option</li> </ul> </li> </ul>
"Please ensure all fields are filled in and valid."	The antenna you are currently viewing has a required field that is empty.

## 6.11 Fault Type

Error Message	Description
"Please enter a"	<ul> <li>Fault Type         <ul> <li>Field is empty</li> </ul> </li> <li>Co-ordinates         <ul> <li>Field is empty</li> </ul> </li> <li>Date Installed         <ul> <li>Field is empty</li> <li>Must follow format: "yyyy/mm/dd"</li> </ul> </li> </ul>





### #Bikes4ERP\_VVS - GROUP 17

Please select a"	<ul><li>Part Name</li><li>Select a valid combo box option</li></ul>
"Please ensure all fields are filled in and valid."	The fault type you are currently viewing has a required field that is empty.

#### 6.12 Maintenance Task

Error Message	Description
"Please enter a"	<ul> <li>Maintenance Task</li> <li>Field is empty</li> <li>Maintenance Task Description</li> <li>Field is empty</li> </ul>
Please select a"	<ul> <li>Part         <ul> <li>Select a valid combo box option</li> </ul> </li> <li>Maintenance Type         <ul> <li>Select a valid combo box option</li> </ul> </li> </ul>
"Please ensure all fields are filled in and valid."	The maintenance task you are currently viewing has a required field that is empty.

## 6.13 Reports





Error Message	Description
"No Bicycle History Report Data for the chosen Job Type in the chosen School to download. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Bicycle History Report Data for the chosen Job Type in the chosen School. Please capture different search criteria and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Log Report Data within the chosen dates to download. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Log Report Data within the chosen dates. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Mechanic Schedule Report Data within the chosen dates to download. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Mechanic Schedule Requirements Report Data within the chosen dates. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.





## #Bikes4ERP\_VVS - GROUP 17

"No Student Report Data within the chosen dates to download.	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
Please capture new dates and	
try again."	
"No Parts Used Report Data within the chosen dates. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.
"No Bicycle History Report Data for the chosen Job Type in the chosen School to download. Please capture new dates and try again."	The chosen date period does not have data to display in the report, please choose a different time period or increase the gap for the period you are trying to report for.

### 6.14 Student

Error Message	Description
"Please enter a"	<ul> <li>First name</li> <li>Field is empty</li> <li>Must be characters</li> <li>Surname</li> </ul>
	<ul> <li>Field is empty</li> <li>Must be characters</li> <li>Phone number</li> <li>Only numbers (10 min and max)</li> </ul>





### #Bikes4ERP\_VVS - GROUP 17

	<ul> <li>Must start with 0</li> <li>Date of Birth <ul> <li>Field is empty</li> <li>Must follow format: "yyyy/mm/dd"</li> </ul> </li> <li>Guardian Name <ul> <li>Must be characters</li> <li>Field is empty</li> </ul> </li> <li>Email <ul> <li>Must contain special characters (@, .com/.co.za)</li> <li>Must be valid email address</li> <li>Field is empty</li> </ul> </li> <li>Guardian phone number <ul> <li>Only numbers (10 min and max)</li> <li>Must start with 0</li> </ul> </li> </ul>
Please select a"	<ul> <li>Village         <ul> <li>Select a valid combo box option</li> </ul> </li> <li>School         <ul> <li>Select a valid combo box option</li> </ul> </li> </ul>
"Please ensure all fields are filled in and valid."	The fault type you are currently viewing has a required field that is empty.

## 6.15 Bicycle

Error Message Description
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### #Bikes4ERP\_VVS - GROUP 17

"Please enter a"	<ul><li>Bicycle Code</li><li>– Must be a number (unique)</li><li>–</li></ul>
Please select a"	<ul><li>Bicycle Brand</li><li>Select a valid combo box option</li></ul>
"Please ensure all fields are filled in and valid."	The bicycle you are currently viewing has a required field that is empty.
"The entered details already exist in the database. Please try again with different details."	The unique identifier (Username, Bicycle Code, Tag Serial Number etc.) for the object you are trying to create already exists in the database. Please input unique details and try again.

### 6.16 Miscellaneous

Error Message	Description
"You are currently not authorized to access this resource."	The User Permissions assigned to the User that is currently logged into the system does not have authorized access to the requested resource. Please contact the system administrator to rectify this.
"The entered details already exist in the database. Please try again with different details.	The unique identifier (Username, Bicycle Code, Tag Serial Number etc.) for the object you are trying to create already exists in the database. Please input unique details and try again.





### #Bikes4ERP\_VVS - GROUP 17

"No matching resources were found for the request. Page not found.	The requested resource cannot be found or doesn't exist. Please contact the system administrator.
"The thing you seek is not within reach."	The requested resource cannot be found or doesn't exist. Please contact the system administrator.
"The details of your request were incorrect. Please validate the details entered and try again.	This indicates a bad request; the requested resource cannot be accessed at the current moment.  Please try logging out and logging back into the system and try again.
"Server under maintenance. Try again later."	This indicates an internal server error; the server is either under maintenance or the server is down.  Please contact the system administrator.
"You have done some odd stuff that our system cannot comprehend at this present juncture."	This is a default error message; the system is down, or something is fatally wrong. Please contact the system administrator.





### 7 System Implementation Procedure

#### 7.1 Introduction

This will serve as a guide for the deployment of the web application in the event that it has to be redeployed.

#### 7.2 Pre-requisites

The web application is currently deployed through the Microsoft Azure Hosting environment and you will therefore be required to create a Microsoft Azure account.

To create an account please follow the following link; <a href="https://azure.microsoft.com">https://azure.microsoft.com</a> and follow the instructions to create an account.

For the deployment you will also have to download Microsoft Visual Studio Community.

To download the application please following the following link; <a href="https://visualstudio.microsoft.com/vs/community/">https://visualstudio.microsoft.com/vs/community/</a> and follow the installation instructions.

When you have successfully created your Microsoft Azure account please follow the implementation process instructions bellow.

### 7.3 Implementation Process

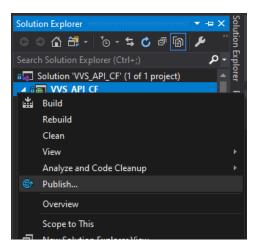
#### 7.3.1 Step 1

You will be required to open the web applications source code in Microsoft Visual Studio, to do this; right click on the source code Open With > Microsoft Visual Studio.



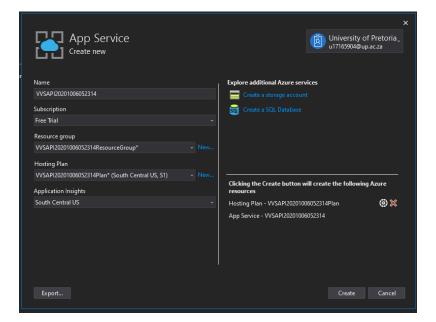


When the application opens, right click on the applications in the solution explorer and click on **Publish**. Follow the screenshots bellow.



#### 7.3.2 Step 2

Microsoft Visual Studio will proceed to open a page resembling the screen bellow. Do not change any settings. Click the **Publish** button.

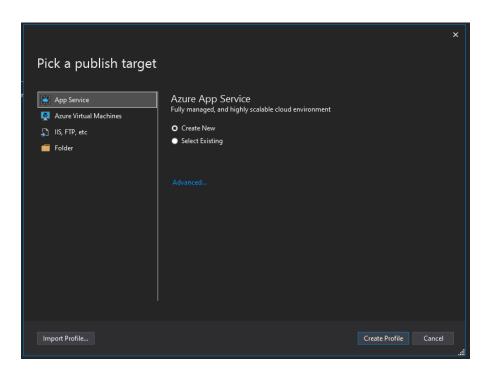






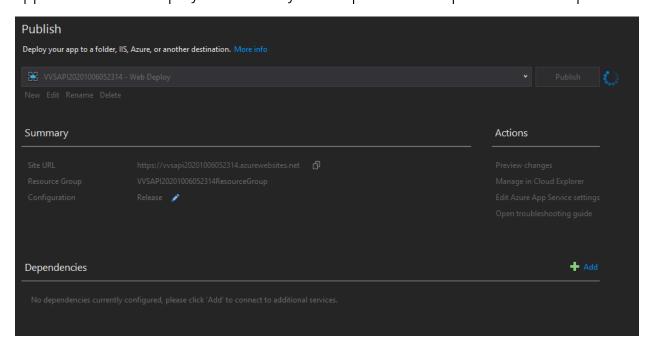
#### 7.3.3 Step 3

Microsoft Visual Studio will proceed to open a page resembling the screen bellow. Fill in the required details and click **Create**.



#### 7.3.4 Step 4

Click the **Publish** button and wait for the build to finish, when this is done the application will be deployed and the system implementation procedure is complete.







# 8 Glossary

Term	Description	Pages
Antenna	An electronic device that receives the RFID signals from the bicycles.	2, 5, 16, 49 – 54, 155, 193
Assign	To give a particular thing for someone to do.	3, 12, 13, 84 – 91, 152, 155
Audit Trail	A list of the systems transaction history.	4, 20, 161, 162
Azure	A hosting service used for our system.	202
Bicycle	A light vehicle with two wheels, one behind the other. You make the wheels turn by pushing on pedals.	3 – 5, 10, 11, 13, 15, 18, 45, 56, 62, 78 – 103, 113, 130, 132 – 136, 139, 140, 143, 146, 150, 152 – 155, 158, 172, 174 – 180, 182, 189, 190, 192, 196, 197, 200, 201
Bikes4ERP	The name of the project.	1 - 186
Blueprint	The outline of an object.	4, 132 – 134, 136 – 139
Dropdown	An expandable option field used to select from a list of objects.	9, 11, 131, 15, 16, 18, 20, 32, 34, 54, 60, 66, 83, 86, 87, 91, 97, 111, 117, 123, 129, 154, 186
Fault	An individual instance of an issue that a bicycle can have.	3 – 5, 8, 9, 16, 46, 48, 112 – 117, 130, 132, 134, 136 – 139,





		181 – 186, 194, 199, 201
Guardian	The adult who acts as a guarantor for the student and is the primary means of contact.	66, 140, 198
Log	The list of all the instances of a tag being read by the antennas.	3, 4, 104, 155 – 157, 196
Maintenance	The regular upkeep of the bicycles.	3 – 5, 16, 46, 118 – 123, 152, 195, 201
Modal	A pop-up message that is displayed to provide information.	151
QR-Code	A type of barcode, optical label, that is made to store data and can be scanned to guide certain functions within the system.	83, 130 – 132,
Redirects	When the page sends you to another page after executing a function.	9, 11, 13, 15, 16, 18, 20, 22 – 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 52, 54, 56, 58, 62, 64, 66, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 142, 145, 151, 154, 157, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186





Report	A document that summarizes selected information and displays it in various formats to benefit the reader.	4, 5, 8, 9, 14, 130, 132, 133, 135, 137 – 147, 149 – 160, 196, 197
RFID	Radio Frequency Identification – a device that uses electromagnetic fields to automatically identify and track tags.	155
Route	A selection of antennas that are linked to a school that show the path taken to arrive at the school.	3, 15, 106 – 111, 155
Schedule	A plan for carrying out a process or procedure, giving lists of intended events and times.	2, 4, 18, 43, 45, 47, 140 – 145, 154, 196
Search	Try to find something by looking or otherwise seeking carefully and thoroughly.	3, 27 – 29, 37, 38, 49, 50, 55, 56, 61, 62, 68, 69, 72, 73, 78, 79, 84 – 89, 92, 93, 98, 99, 104 - 107, 112, 113, 118, 119, 124, 125, 162 - 164, 169, 170, 175, 176, 181, 182, 196.
Serial Number	A unique number that is linked to an individual object that identifies it uniquely.	56, 60, 89, 105, 155, 192, 200, 201
Tag	A tag consists of a tiny radio transponder, a radio receiver and transmitter. Allowing it to communicate with the antennas.	2, 3, 5, 13, 15, 55 – 60, 88 – 91, 105, 146, 148, 150, 155, 192, 200, 201





# 9 Client Sign off

l,	, on behalf of EPI-USE, hereby confirm that I
	ited scope of work, specifications, diagrams and ument – #BIKES4ERP User Manual and Deliverable 8.
Date:	_
Signaturo:	





### 10 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 8 & 9 Final System & User Documentation for INF 370 2020.

Name:	Name:
Signature:	
Date:	
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