

King Fahd University of Petroleum & Minerals Department of Information and Computer Science

SWE 312: User Interface Design
Term 201

Instructor: Dr. Mahmood Niazi

Project: Web based pothole tracking and repair system (PHTRS)

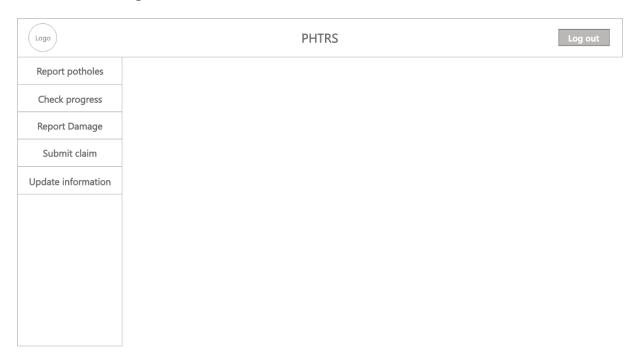
Phase #2

Team #2

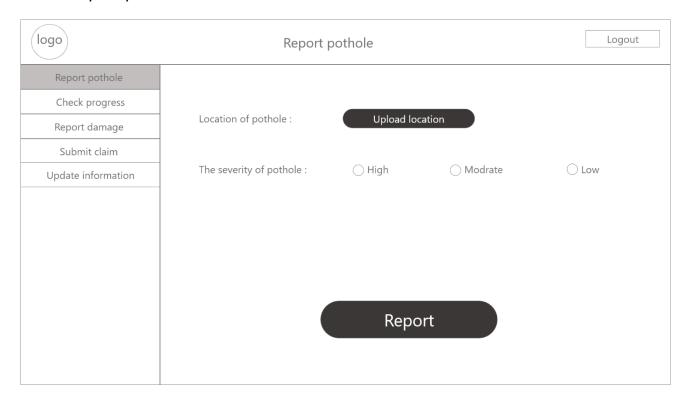
Ali Al-Muslim	201755830
Abdulrahman Abdulltif	201744290
Munther Alsayed	201740410
Omar Pervez Khan	201746350
Khalifa Alhomely	201694520

CITIZEN

1. Home Page:



2. Report pothole:



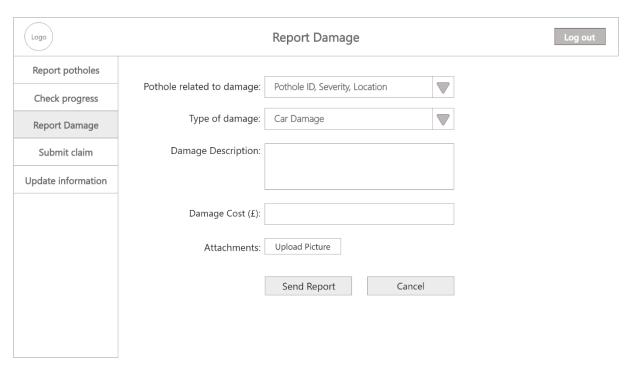
The Citizen can report the pothole by clicking on the "Upload Location" and uploading the location of the pothole. After that, he can choose a severity from the three options "High", "Moderate", and "Low". If he completes this, he then will be able to click on "Report" to submit his report.

3. Check progress:

logo		Check Progress	Logout
Report pothole	No.	Repair Location	Repair Status
Check progress	140.	repair Education	
Report damage			
Submit claim			
Update information			

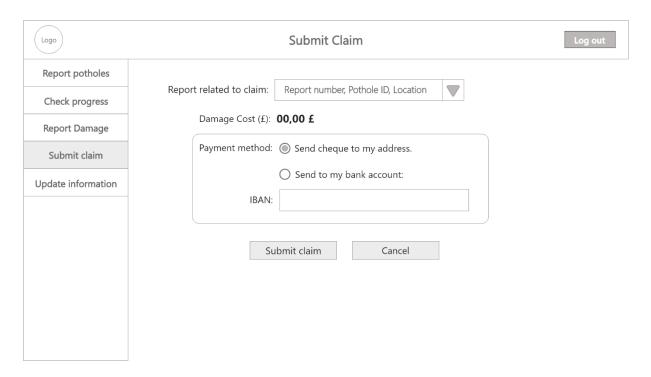
When the Citizen clicks on "Check progress", he will be able to see all his reports and how their status. This a view only and the Citizen cannot change anything in this page.

4. Report Damage:



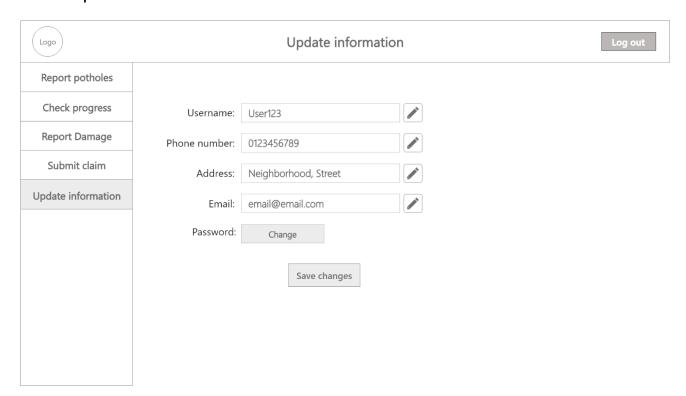
To report a damage, The Citizen will choose the pothole from a list. After that, he will choose the type of damage from the next list (if the type is not there he can choose "Other"). He then will have to describe the damage in "Damage Description" and estimate its cost in "Damage Cost" fields. Finally, he can attach a picture if he has one and press "Send Report" to submit the report.

5. Submit Claim:



To submit a claim, the student have to choose the related claim from the list "Report related to claim" and the submit "Damage Cost" will appear depending on whether or not the Citizen reported the damage in the previous page and if his request was accepted. Next, he can choose the way he wants the money to be delivered to him either by cheque or a transfer to his bank account. If he wished to have it in a transfer, he will write his IBAN and "Submit claim". In the case that he wants the money in a cheque, there is no need to write his address because it should be available in his account information, if not, he will get an error message requesting him to update his information.

6. Update Information:



This is the page that is show when the citizen clicks on Update Information on the left menu bar. The citizen is shown a form that contains fields for the Username, Phone number, address, email and password. The citizen can then edit any of these fields by clicking on the icon beside the field and entering their information. Once the information has been entered, the citizen can click on the **Save Changes** button and their personal information will be updated.

REPAIR CREW MEMBER

logo	Update Repair Status Logout						
Update Repair Status	No.	Repair Location	Priority	Status	Update Status		
					Update		
					Update		
					Update		
					Update		
					Update		

This is the homepage for the repair crew member. The repair crew member can view information about the current jobs that have been assigned to them. They also can update the status of a job. This can be done by clicking the **Update** button in the Update Status column.

After clicking the update button, the following dialog box opens.

logo	Update Repair Status Logo						Logout	
Update Repair Status	No.				Priority	St		Update Status
		NI-		Repair				Update
		No.	_	Location n progress	###### O Temporar	y repair		Update
			Repaire Update	ed	O Not repair			
								Update
								Update

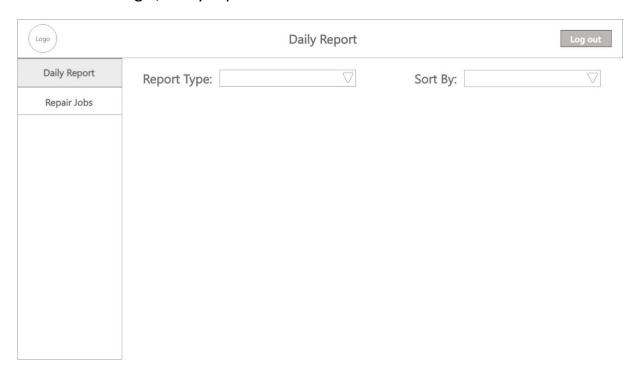
In this dialog box, the ID number and the location of the pothole is displayed to the repair crew member. The crew member can then select one of four options:

- Work in Progress
- Temporary Repair
- Repaired
- Not Repaired

Once the crew member selects an option and clicks on update, the status of the pothole is updated.

GENERAL MANAGER

1. Home Page / Daily report



This is the home page for the general manager. It also is the page for viewing the daily reports. As there are two types of daily reports that the manager can view (Repairs Completed and Repairs Requested), the manager can select what report to view through the Report Type menu selection.

2. Repairs Requested Report Page

Logo	Daily Report for 13th March, 2019				
Daily Report	Report Type:	New Repairs	∇ Sort By:	∇	
Repair Jobs		Total Rep	airs requested: xx		
	Pothole ID	Pothole Location	Requested By	Estimated Repair Time	

Once the general manager selects **New Repairs** from the Report Type selection, this page is shown. It shows the total number of repairs requested along with some information accompanying these new reports. The general manager can sort the report through the **Sort By** menu selection.

The date of the report is also displayed at the top of the page.

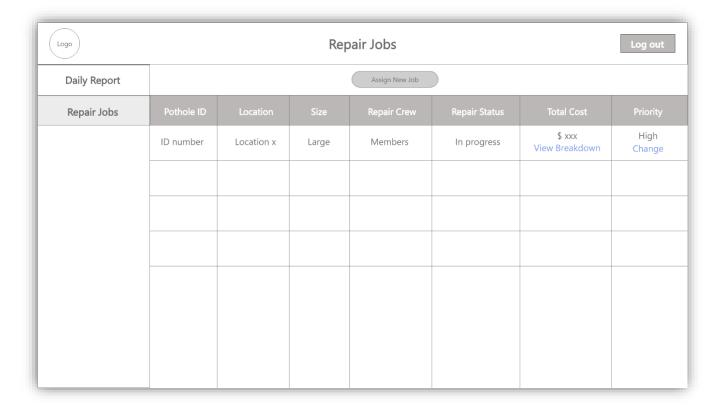
3. Repairs Completed Report Page

Logo	Daily Report for 13th March, 2019				
Daily Report	Report Type:	Repairs Done	∇ Sort By:		
Repair Jobs		Total Rep	airs completed: xx		
	Pothole ID	Pothole Location	Requested By	Completion Date	

Once the general manager selects **Repairs Done** from the Report Type menu selection, this page is shown. It shows the total number of repairs requested along with some information accompanying these completed reports. The general manager can sort the report through the **Sort By** menu selection.

The date of the report is also displayed at the top of the page.

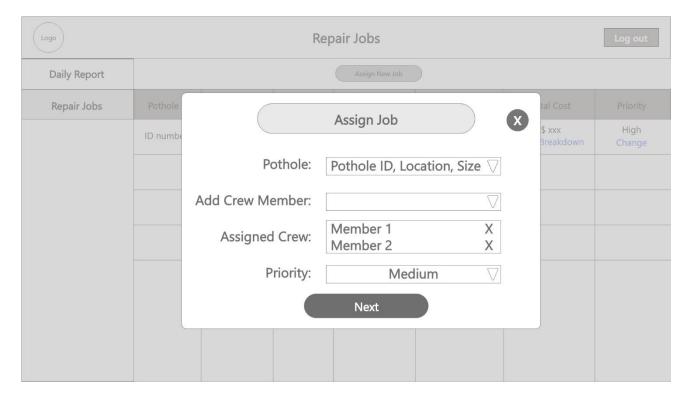
4. Repair Jobs Page



By clicking on the **Repair Jobs** button in the left bar, the general manager can view this page.

The table contains information pertaining to the information of each repair job. The general manager can assign new jobs by the clicking the button **Assign New Job** above the table.

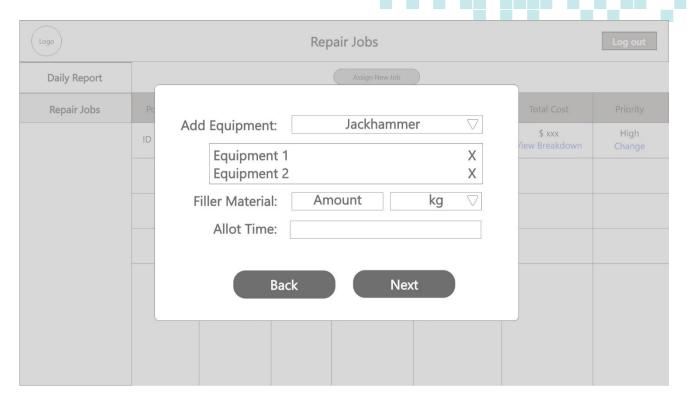
5. Assign Job Dialog Boxes



On clicking the Assign New Job button, this dialog box opens. In here, the general manager can start entering the information needed to assign a new job:

- Pothole is a dropdown menu selection that allows the manager to select a reported porthole. The dropdown contains the ID, location, and size of the pothole to allow the manager to identify the required pothole accordingly.
- **Add Crew Member** is a dropdown menu selection that allows the manager to select a repair crew member to assign the repair job to.
- **Assigned Crew** is a list that shows the current members that have been assigned. The manager can remove any preexisting members by clicking on the X.
- **Priority** is a dropdown menu selection that allows the manager to prioritize the repair job.

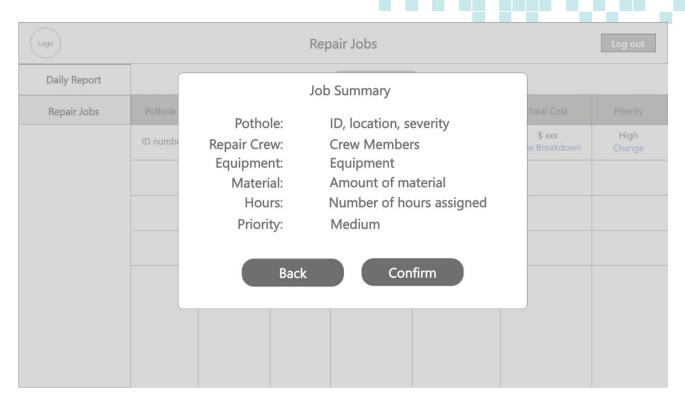
After the information has been entered and the manager clicks next, another dialog box is shown.



In this area, the manager can add available equipment, filler material and allot time for the task.

- **Add Equipment** is a dropdown menu selection that allows the manager to assign equipment to be used by the crew.
- The box below Add Equipment shows the currently added equipment. The manager can remove equipment by clicking on the X.
- **Filler Material** is a combination of text fill in and dropdown menu selection. The text fill-in is where the manager can add the amount and the dropdown is where the manager can select the units for the amount of filler material (kg, g, etc).
- **Allot Time** is a datetime selection tool which allows the manager to allot the number of hours for the task to be completed in.

After this information has been entered, the manager can either go back to the previous dialog box by clicking the **Back** button or can move on by clicking the **Next** button.



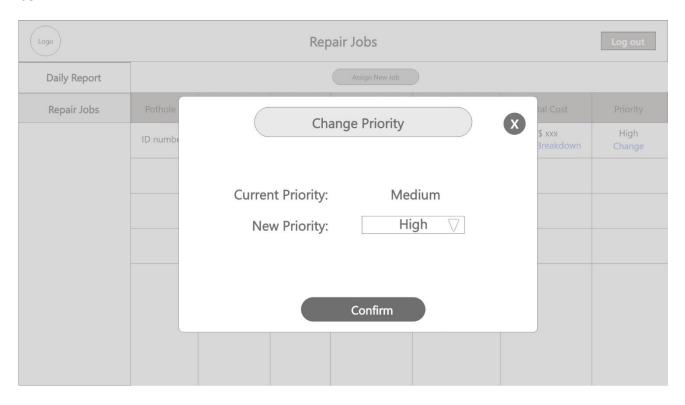
Once the **Next** button is clicked, the manager is shown a final dialog box that shows a job summary. This is so that the manager can recheck all the information entered.

Once the **Confirm** button is pressed, the job is assigned.

6. Change Priority Dialog Box

Pothole ID	Location	Size	Repair Crew	Repair Status	Total Cost	Priority
ID number	Location x	Large	Members	In progress	\$ xxx View Breakdown	High Change

Upon clicking on the **Change** link in the **Priority** column, the general manager is shown this dialog box:



In this area, the general manager can change the priority of the already created job.

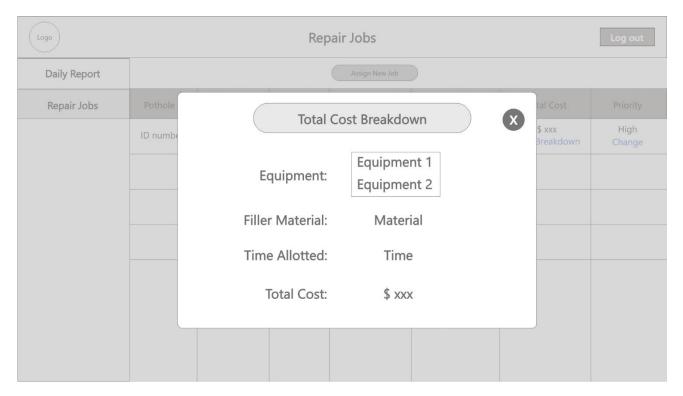
- **Current Priority** shows the current assigned priority of the job.
- **New Priority** is a dropdown menu selection that allows the manager to select what new priority needs to be assigned to the repair job.

On clicking confirm, the priority of the job is changed.

7. View Cost Breakdown Dialog Box

Pothole ID	Location	Size	Repair Crew	Repair Status	Total Cost	Priority
ID number	Location x	Large	Members	In progress	\$ xxx View Breakdown	High Change

Upon clicking on the **View Breakdown** link in the **Total Cost** column, the general manager is shown this dialog box:



In this area, the general manager is shown the equipment assigned to the job, the filler material used, the time allotted to the job and the resultant total cost of the entire repair job.

PUBLIC WORKS DEPARTMENT STAFF

1. Home Page / Damage reports

Logo	Damage reports Log out					
Damage reports	N	Report number	Damaged person	Type of damage	Amount of damage (£)	Verify / Decline
Verified claims	1					Verify / Decline
Claims history	2					Verify / Decline
	3					Verify / Decline
	4					Verify / Decline
	5					Verify / Decline
	6					Verify / Decline
	7					Verify / Decline
	8					Verify / Decline
	9					Verify / Decline

This is the home page for the public work department staff. It also is the page for viewing and verifying the damage claims. The user can view the damage claim by clicking on (Verify/Decline) button.

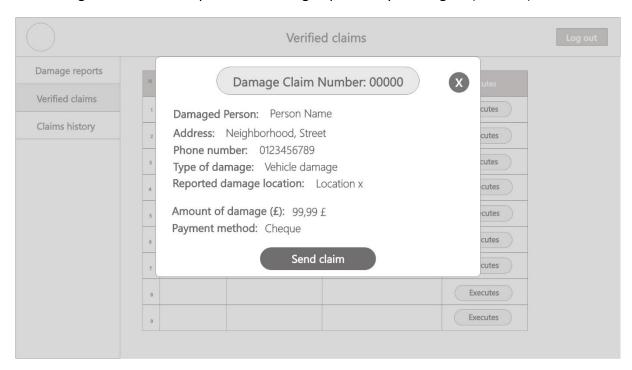


After clicking on (Verify/Decline) button, a window will pop up containing the information of damage claim and the public work department staff can verify or decline the claim.

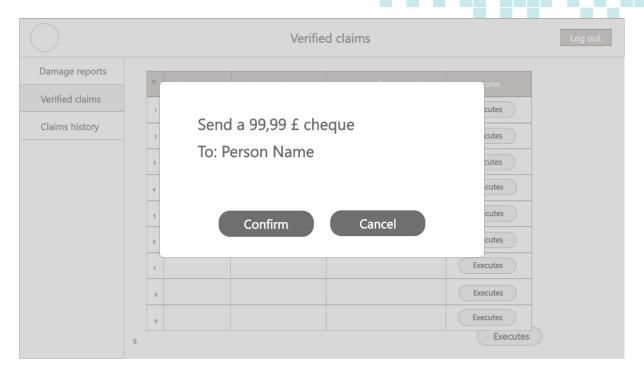
2. Verified claims



In this page, the public work department staff can view the verified claims. The user can execute the damage and send a cheque to the damaged person by clinking on (Execute) button.



After clicking on (Execute) button, a window will pop up containing the information of damage claim. The public work department staff can send the claim to the damaged person by clicking on (Send claim) button.



After clicking on the (Send claim) button, a window will pop up to confirm sending the money to the damaged person. (the purpose of this step is to avoid the error by the user).

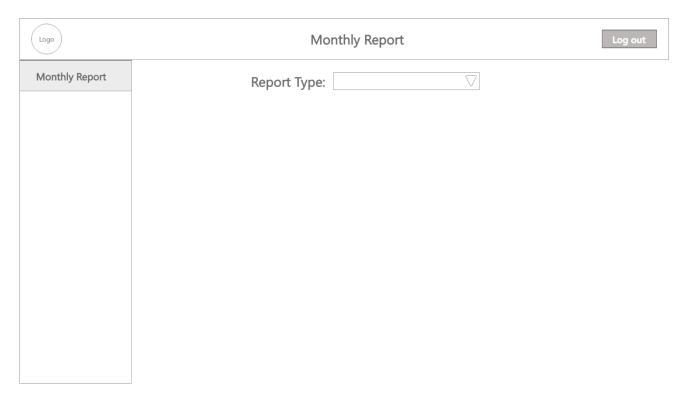
3. Claims history



In this page, the public work department staff can view the claims history and view the status of each claim.

PUBLIC WORKS HEADQUARTER STAFF

1- Monthly Report Homepage



This is the home page for the public works headquarter staff. It also is the page for viewing the monthly reports. As there are two types of monthly reports that the headquarter staff can view (Repairs Completed and Repairs Requested), the headquarter staff can select what report to view through the Report Type menu selection.

2- Repairs Requested:

Logo	Monthly Report for March, 2019					
Monthly Report		Report Type:	New Repairs ▽			
		Total Re	pairs requested: xx			
	Pothole ID	Pothole Location	Requested By	Estimated Repair Time		

In this page, the user can see the monthly report for the requested repairs during the last month. This page will show the Pothole ID, Location, estimated time for repair, and the ID or name of the person who requested the repair (depends on the implementation later). The total number of repairs requested is displayed above the table.

3- Repairs Done

Logo	Monthly Report for March, 2020							
Monthly Report	Re	Report Type: Repairs Done						
		Total Repairs o	completed: xx					
	Pothole ID	Pothole Location	Requested By	Completion Date				

Like the page before it, this page shows the Monthly report for the repairs done. The only difference from UI standpoint is the fact that it shows the "Completion Date" instead of "Estimated Repair Time". The total number of repairs completed is displayed above the table.

WORK CONTRIBUTION

Name	ID	Contribution
Ali Al-Muslim	201755830	20%
Abdulrahman Abdulltif	201744290	20%
Munther Alsayed	201740410	20%
Omar Pervez Khan	201746350	20%
Khalifa Alhomely	201694520	20%