King Fahd University of Petroleum and Minerals

Information & Computer Science Department

SWE312 – User Interface Design

Semester 201

Due: November 30, 2020

Group Project

Phase 3 Part-A

Group # 5

Team Members:
Contribution:

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Task #1: Sign Up

Member of the Public can Sign Up, and make an account, allowing him to access the system, by providing a unique username that follows the regulations of the site, his personal email for identity verification and future communication, a password, and phone number.

Task #2: Log In

All applicable users will have to provide a valid username, and its corresponding password to Log In to the system. Member of the Public can also sign up by following the provided link.

Task #3: Report Pothole's Severity and Location

Member of the Public can report a pothole by providing the address of the street, its location on the street, which area in the city, and its size (Severity). The user can also provide more details, or a photo for the pothole.

	Report Pothole	English - Arabic

Street Address:

Pothole Size:

Location on the Road:

Area on City:

More Details (Optional):

Upload Photo: Browse My Computer

Image1.png ⊗
Image2.png ⊗

Cancle   Submit

Task #4: Register Reported Potholes in "PHTRS"

The registration process is done in the background by the system.
Therefore, it has no page devoted for performing the functionality.

Task #5: Assign Repair Jobs

The General Manager can see unfinished jobs (reports), and assign them to available Repair Crew. He can also give them more instructions through a text box.

Task #6: Prioritize Job

The system will prioritize jobs based on their severity, and location. Which then allows the General Manager to identify important jobs. The process is done in the background by the system. Therefore, it has no page devoted for performing the functionality.

Task #7: View Repair Crew

The General Manager can view all the relevant information on Repair Crew. He can also search for a specific crew, or sort them by a criterion.

View repair crew

English - Arabic

Search by [V]   Sort by [Available V]

The results

ReCrewID	Members	Work on	Start at	Brief descroption
003		Available		
006		Available		

ReCrewID	Members	Work on	Start at	Done %	Brief descroption
002		In Progress Report007	31/10/2020	40%	
007		In Progress Report009	02/11/2020	75%	

ReCrew003 detial

English - Arabic

Member

Member1	Member2	Member3	Member4

ReCrew003 efficiency

Done properly	Done quickly
93%	90%

Edit

Status [Available]   In progress work   Sort by [Start date V]

ReportID	Reported by	Assigned by	Start at	Brief descroption

Repaired Work

ReportID	Reported by	Assigned by	Start at	Done at	Brief descroption
Report003	Ali Ahmad	In Progress Report007	31/10/2020	29/10/2020	
Report005	Jawad55	In Progress Report009	02/11/2020	30/10/2020	

Task #8: View Assigned Jobs

Repair Crew can view all the jobs assigned from the General Manager, and can view all previous finished work.

		ReCrew003 detail Jawad				English - Arabic

Status
Available

Edit

In progress work

ReportID	Reported by	Assigned by	Start at	Brief descroption	

Repaired Work

ReportID	Reported by	Assigned by	Start at	Done at	Brief descroption	
Report003	——————— ———————	In Progress Report007	31/10/2020	29/10/2020	——————— ———————	
Report005	——————— ———————	In Progress Report009	02/11/2020	30/10/2020	——————— ———————	

Task #9: Update Pothole Status

The Repair Crew responsible for the pothole can update the status of the pothole from the options available, and write a report to be sent to the General Manager.

Task #10: Submit Damage Claim

Member of the Public can make a damage claim by providing a damage description, explaining the situation, what was damaged, and how. A photo may be provided to further solidify his claim.

Task #11: Create Damage File

The system will create a damage file for all submitted claims in fixed intervals.

| | Damage file | English - Arabic |

The submited damage reports:

Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open
Report # XXX — Open

Task #12: Verify Claim

The Public Works Department Staff can view all damage files, which then can select a file. Then he can verify the claim, based on the information provided by the system, and some effort from his part.

Damage Files	English - Arabic

File#01: open
File#02: open
File#03: open
File#04: open
File#05: open
File#06: open
File#07: open
File#08: open

Pothole | Verify Claim | English - Arabic

User's information:

Name: William Brown

Phone number: +61 | 428 744 127

District: Weir

Home number: 243 179

Street: Carlisle

Type of damage: Front bumper

Amount of damage: 900 | A$

Back   Verify

Task #13: Execute Damage Claim

The Public Works Department Staff can see the status of the damage claims, while providing a short description for the decision made regarding said claim, then sending it to the claimer.

Task #14: Send Cheque

The Public Works Department Staff can send a cheque for Approved claims, after providing the required information to the system.

	Cheque	English - Arabic

Date: DD / MM / YYYY /

Pay to the member:

Bank name:

IBAN number: AT

Deserved amount: A$

Send cheque

Task #15: Daily report

The General Manager can request the system to generate a daily report. The system will generate the report and display it. The General Manager can also see the total number of repairs done and sort the report by criteria such as size, most importance, most dangerous and distance. Also, he can open one of the reports and see the details of the report.

Daily report file   English - Arabic

Total numbers of repars done: xxx

List of reports:

sort by:

- ☑ report #xxx
- ☐ report #xxx
- ☑ report #xxx
- ☐ report #xxx
- ☐ report #xxx
- ☑ report #xxx
- ☐ report #xxx

size
most important
most danguerus
distance
.....

Open

Report Details   English - Arabic

Report number : #XXX

Street Address:
Al nassim

Size of damage (1-10):
5

Location on the road:
In the middle

Area of city:
Jeddah

More details:

The pothhole makes the road very congested and also damaged some cars on the road due to its dangerous location. It should be fixed ASAP!!

Photo:

Photo will be shown here

Back

Task #16: Monthly report

The Public work headquarter can request the system to generate a monthly report. Then the system will generate the report and display it. The Public work headquarter can see the total number of repairs requested and done.

Monthly report file

English - Arabic

Total numbers of repars requesten: xxx
Total numbers of repars done: xxx

List of reports:

sort by:
- size
- most important
- most danguerus
- distance
- .....

- ☑ report #xxx
- ☐ report #xxx
- ☑ report #xxx
- ☐ report #xxx
- ☐ report #xxx
- ☑ report #xxx
- ☐ report #xxx

Open

Report Details

English - Arabic

Report number : #XXX

Street Address:
Al nassim

Size of damage (1-10):
5

Location on the road:
In the middle

Area of city:
Jeddah

More details:

The pothole makes the road very congested and also damaged some cars on the road due to its dangerous location. It should be fixed ASAP!!

Photo:

Photo will be shown here

Back

Task #17: Send Report

The system shall send specified report type to their intended recipient in fixed intervals. The process is done in the background by the system. Therefore, it has no page devoted for performing the functionality.

Task #18: Repair Progress

Member of the Public can view the reports he submitted, along with the status of the report (In progress, Repaired, etc...). Also, the submitted report can be viewed by clicking on the report ID.

		Repair Progress	English - Arabic

Submited Reports:

Report ID	Date	Status
#12,052	1/7/2019	In progress
#10,943	7/28/2018	Repaired
#9,535	4/15/2017	Repaired

Back