Petroleum Company System Project Description:

Aim: To increase the efficiency of operation in the company

This system will be used for time scheduling and task distribution and operation management. This system will not be fully involved in the production process.

List of team members:

Project Manager: Ali Ehab Ali Hassan 21100800

Team Members:

Mohamed Ashraf Rabie Mohamed 21100854

Ramez Mohamed Fathi Ahmed 21100793

Youssef Khaled Abdelsalam Mohamed 21100865

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**Managing Tool Requests by Engineer**

Test requirements:

1.1-ensure that Engineers have the send tool request option.

1.2-ensure that there are two options to send a request.

1.3-ensure that if the engineer clicks upload document he is asked to drag and drop a document or select it from his drive.

1.4-ensure that if the engineer clicks the type of document, he will be prompted to enter his request via keyboard

1.5-ensure that the engineers’ uploaded document is sent correctly to the Industry Development Department

1.6-ensure that the typed request is sent correctly to Industry Development Department

1.7-ensure that if the engineers request is approved by the Industry Development Department it is sent to the Financial Department

1.8-ensure that if the engineers request is disapproved by the Industry Development Department it is not sent to the Financial Department

1.9-ensure that if the Industry Development Department disapproves the Engineers request the Engineer receives a response that the request has been declined by the Industry Development Department

1.10-ensure that if the Financial Department disapproves the Engineers request the Engineer receives a response that the request has been declined by the financial department

1.11-ensure that if the financial department approves the Engineers’ request that he is sent a response informing him of the approval of both departments.

1.12-Ensure that the Engineer can see the approval response.

1.13-Ensure that the Engineer can see the disapproval response by the Industry Development Department

1.14-Ensure that the Engineer can see the disapproval response by the Financial Development Department

**Managing Employee Requests**

Test requirements:

2.1-ensure that Engineers have the send tool request option.

2.2-ensure that there are two options to send a request.

2.3-ensure that if the engineer clicks upload document he is asked to drag and drop a document or select it from his drive.

2.4-ensure that if the engineer clicks the type of document, he will be prompted to enter his request via keyboard

2.5-ensure that the engineers’ uploaded document is sent correctly to the Industry Development Department

2.6-ensure that the typed request is sent correctly to Industry Development Department

2.7-ensure that if the engineers request is approved by the Industry Development Department it is sent to the Financial Department

2.8-ensure that if the engineers request is disapproved by the Industry Development Department it is not sent to the Financial Department

2.9-ensure that if the Industry Development Department disapproves the Engineers request the Engineer receives a response that the request has been declined by the Industry Development Department

2.10-ensure that if the Financial Department disapproves the Engineers request the Engineer receives a response that the request has been declined by the financial department

2.11-ensure that if the financial department approves the Engineers’ request that he is sent a response informing him of the approval of both departments.

2.12-Ensure that the Engineer can see the approval response.

2.13-Ensure that the Engineer can see the disapproval response by the Industry Development Department

2.14-Ensure that the Engineer can see the disapproval response by the Financial Development Department

**Display**

Test requirements:

3.1-check if the display button is available.

3.2-check if the display shift time button is available.

3.3-check if the display transportation time button is available.

3.4-check if the display salary button is available.

3.5-check if the display required tasks button is available.

3.6-check that the display shift time displayed successfully.

3.7-check if the shift time is edited the display shift time is displayed successfully.

3.8-check that the display transportation displayed successfully.

3.9-check if the transportation time is edited and the display shift time is displayed successfully.

3.10-check that the display salary displayed successfully.

3.11-check if the salary is edited (increased due to promotion or decreased due to a fine)

3.12-check that the display task option is displayed correctly.

3.13-check that at editing the tasks for the employee it is updated correctly.

**Managing Insurance**

Test requirements:

4.1-Every employee does not exceed the limited number of dependents-Ensuring that the employee is still working for the company.

4.2-Ensuring that the health insurance fees are taken off from the employees' salary

4.3-Ensuring that if the number of dependents increased the health insurance fees have been increased

4.4-Ensuring that if an employee uploaded an insurance request that it will be added to report list that will be reviewed

4.5-Ensuring that if the request has been approved, the approvement is sent to the employee.

**Manage Maintenance Request**

Test requirements:

5.1-Check that send employee request option is available

5.2-Check that employee can upload a document

5.3-Check that the employee has the uploaded document sent successfully

5.4-Check that the employee has the option to type a document (the malfunctioned machine)

5.5-Check that the problem request was sent correctly

5.6-Check that the malfunctioned machine is edited in the database as out of service

5.7-Check that all related employees see the machine as malfunctioned

5.8-Check that the maintenance department receives the workers confirmation correctly

5.9-Check that the notification that the maintenance is underway is sent to the requester correctly

5.10-Check that the maintenance department receives the workers repair confirmation correctly

5.11-Check that after repair the machine is edited in the database as back in operation-Check that the requestor and all related employees receive confirmation of the repair

**A grid of white squares

Description automatically generated with low confidence**

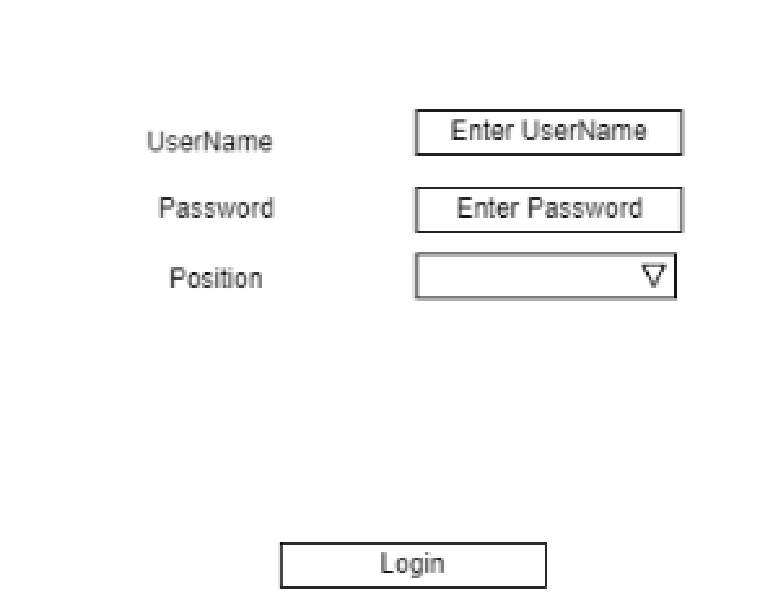
**M1: Login**

**M2: Day Off request**

**M3: Maintenance Request**

**M4: Upload Report**

**Integration testing will be done with the top bottom approach.**

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| M1 | lOGIN |  |  |  |  |  |
| 1 | LOGIN |  |  |  |  |  |
| 1.1 | UseName --> Text Field | | |  |  |  |
| 1.1.1 | must contain an @ symbol | | |  |  |  |
| 1.1.2 | must ed with .com or .net or any valid top-level domain | | | | | |
| 1.2 | Password --> Text Field | | |  |  |  |
| 1.2.1 | password must be min 8 characters long | | | |  |  |
| 1.2.2 | password must con 1 uppercase letter | | | |  |  |
| 1.2.3 | password must contain at least 1 number | | | |  |  |
| 1.2.4 | password must contain at least 1 Letter | | | |  |  |
| 1.2.5 | password must contain at least 1 special character | | | | |  |
| 1.3 | Position --> drop down Box | | |  |  |  |
| 1.4 | Login --> button | |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Input Values** |  |  | **Description** |  |  |
| With Vaild Input | | 1 |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Accepted |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Invalid input | | 2 |  |  |  | mohamed.com | |  | Error Message --> it must | | |
|  |  |  |  |  |  |  |  |  | contain an@symbol | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 |  | UserName | | [mohamed@](mailto:mohamed@) | |  | Error Message --> it must | | |
|  |  |  |  |  |  |  |  |  | contain a valid | |  |
|  |  |  |  |  |  |  |  |  | top level domain | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 4 |  |  |  | mohamed | |  | invalid as it must conatin | | |
|  |  |  |  |  |  |  |  |  | an @ symbol or a valid | | |
|  |  |  |  |  |  |  |  |  | to level domain | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Valid Input | | 5 |  |  |  | [123456@Ab](mailto:123456@Ab) | |  | Accepted |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Invalid Input | | 6 |  |  |  | [1@aA](mailto:1@aA) |  |  | Error Message --> password | | |
|  |  |  |  |  |  |  |  |  | is invalid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 7 |  |  |  | [1@abcdefghij](mailto:1@abcdefghij) | |  | Error Message --> password | | |
|  |  |  |  |  |  |  |  |  | is invalid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 8 |  | Password | | [Abcdefghij@](mailto:Abcdefghij@) | |  | Error Message --> password | | |
|  |  |  |  |  |  |  |  |  | is invalid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 9 |  |  |  | [1234567@23](mailto:1234567@23) | |  | Error Message --> password | | |
|  |  |  |  |  |  |  |  |  | is invalid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 10 |  |  |  | 1234Abcdef | |  | Error Message --> password | | |
|  |  |  |  |  |  |  |  |  | is invalid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Action** |  |  | **Description** |  |  |
| With Valid Input | | 11 |  |  |  | on click |  |  | A list of all the Positions | | |
|  |  |  |  |  |  |  |  |  | apperar(Engineer, Worker | | |
|  |  |  |  |  |  |  |  |  | ,Lab Technician, Security | | |
|  |  |  |  | Position | |  |  |  | ,etc) |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 12 |  |  |  | on click |  |  | no positions appear | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Valid Input | | 13 |  |  |  | username --> | |  | Accepted |  |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | |  |  |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 14 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Credentials | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Invalid input | | 15 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | mohamed.com | |  | Invalid UseName | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 16 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [mohamed@](mailto:mohamed@) | |  | Invalid UseName | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 17 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | mohamed | |  | Invalid UseName | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 18 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  | Login | | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [123456@Ab](mailto:123456@Ab) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 19 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [1@aA](mailto:1@aA) |  |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 20 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [1@abcdefghij](mailto:1@abcdefghij) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 21 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [Abcdefghij@](mailto:Abcdefghij@) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 22 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | [Mohamed@gmail.com](mailto:Mohamed@gmail.com) | | | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  |  |  |  |
|  |  |  |  |  |  | [1234567@23](mailto:1234567@23) | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 23 |  |  |  | username --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | mohamed.com | |  | Invalid Password | |  |
|  |  |  |  |  |  | password --> | |  | and username | |  |
|  |  |  |  |  |  | 1234Abcdef | |  |  |  |  |
|  |  |  |  |  |  | then click the button | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

**A screenshot of a computer screen

Description automatically generated with low confidence**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| M2 | Request Day Off |  |  |  |  |  |
| 2 | DayOff Request |  |  |  |  |  |
| 2.1 | Write Reqason --> Text Field | |  |  |  |  |
| 2.1.1 | Must have min of 20 words | |  |  |  |  |
| 2.2 | Request Date --> Text Field | |  |  |  |  |
| 2.2.1 | Must only caontain numbers and / | | |  |  |  |
| 2.2.2 | must be writeen in a xx/xx/xxxx format(day/month/year) | | | | |  |
| 2.3 | Request History --> Text Box | |  |  |  |  |
| 2.4 | Submit --> Button |  |  |  |  |  |
| 2.4.1 | both the request data and the reason text fields must be filled | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Input Values** |  |  | **Description** | | |  |  |
| With Valid input | | 1 |  |  |  | 25/5/2023 |  |  | Accepted | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 2 |  |  |  | 20/5/2020 |  |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  |  |  |  | date has already Passed | | | | |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
| With Invalid input | | 3 |  |  |  | t/5/2023 |  |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  |  |  |  | date must be written in | | | | |
|  |  |  |  | Request Date | |  |  |  | intgers only | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 4 |  |  |  | 5/25/2023 |  |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  |  |  |  | date must be written in | | | | |
|  |  |  |  |  |  |  |  |  | DD/MM/YYYY | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 5 |  |  |  | Tuesday/june/2023 | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  |  |  |  | date must be written in | | | | |
|  |  |  |  |  |  |  |  |  | intgers only | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
| With Valid input | | 6 |  |  |  | I cannot come because of | | | Accepted |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  | Write Reason | |  |  |  |  | |  | |  |
| With Invalid input | | 7 |  |  |  | I cannot come | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  |  |  |  | reason must be more | | | | |
|  |  |  |  |  |  |  |  |  | than 20 words | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Action** |  |  | **Description** | |  | |  |
| With Valid input | | 8 |  |  |  | Onclick && | |  | Accepted | |  | |  |
|  |  |  |  |  |  | Requested Date ---> 25/5/2023 | | |  |  | | |  |
|  |  |  |  |  |  | Write Reason--> | |  |  | |  | |  |
|  |  |  |  |  |  | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
| With Invalid input | | 9 |  |  |  | Onclick && | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  | Requested Date ---> 20/5/2023 | | | date has already Passed | | | | |
|  |  |  |  |  |  | Write Reason--> | |  |  | |  | |  |
|  |  |  |  |  |  | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 10 |  |  |  | Onclick && | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  | Requested Date ---> t/5/2023 | | | date must be written in | | | | |
|  |  |  |  |  |  | Write Reason--> | |  | intgers only | | | |  |
|  |  |  |  |  |  | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 11 |  |  |  | Onclick && | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  | Requested Date ---> 5/25/2023 | | | date must be written in | | | | |
|  |  |  |  |  |  | Write Reason--> | |  | DD/MM/YYYY | | | |  |
|  |  |  |  | Submit | | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 12 |  |  |  | Onclick && | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  | Requested Date ---> | |  | date must be written in | | | | |
|  |  |  |  |  |  | Tuesday/june/2023 | |  | intgers only | | | |  |
|  |  |  |  |  |  | Write Reason--> | |  |  | |  | |  |
|  |  |  |  |  |  | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 13 |  |  |  | Onclick && | |  | Error Message ---> the entered | | | | |
|  |  |  |  |  |  | Requested Date ---> 25/5/2023 | | | reason must be more | | | | |
|  |  |  |  |  |  | Write Reason--> | |  | than 20 words | | | |  |
|  |  |  |  |  |  | I cannot come | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 14 |  |  |  | Onclick && | |  | Error Message --> | | | |  |
|  |  |  |  |  |  | Requested Date ---> Blank | | | Request Date Cannot | | | | |
|  |  |  |  |  |  | Write Reason--> | |  | be left Empty | | | |  |
|  |  |  |  |  |  | I cannot come because of | | |  |  | | |  |
|  |  |  |  |  |  | having my son graduation | | |  |  | | |  |
|  |  |  |  |  |  | at school and it is at the same | | |  |  | | |  |
|  |  |  |  |  |  | time of work | |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 15 |  |  |  | Onclick && | |  | Error Message --> | | | |  |
|  |  |  |  |  |  | Requested Date ---> 25/5/2023 | | | Write Reason Cannot | | | | |
|  |  |  |  |  |  | Write Reason--> Blank | | | be left Empty | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  | 16 |  |  |  | Onclick && | |  | Error Message --> | | | |  |
|  |  |  |  |  |  | Requested Date ---> Blank | | | Request Date Cannot | | | | |
|  |  |  |  |  |  | Write Reason--> Blank | | | be left Empty, | | | |  |
|  |  |  |  |  |  |  |  |  | Write Reason Cannot | | | | |
|  |  |  |  |  |  |  |  |  | be left Empty | | | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |
|  |  |  |  |  |  |  |  |  |  | |  | |  |

**A screenshot of a computer screen

Description automatically generated with low confidence**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | Request Maintenance | |  |  |  |
| 3.1 | Request History --> Text Box | |  |  |  |
| 3.2 | Location --> Text Field | |  |  |  |
| 3.2.1 | must not have punctuation marks | | |  |  |
| 3.2.2 | Location must be inside the company | | |  |  |
| 3.3 | Write reason --> Text Field | |  |  |  |
| 3.3.1 | can't have less than 20 words | |  |  |  |
| 3.4 | submit --> button |  |  |  |  |
| 3.4.1 | Both the loaction and reason must be filled | | | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Input Values** |  |  | **Description** |  |  |
| With Valid Input | | 1 |  |  |  | Department 101 | |  | Accepted |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 2 |  |  |  | 10th street in | |  | Accepted |  |  |
|  |  |  |  |  |  | Alexandria | |  |  |  |  |
|  |  |  |  | Location | |  |  |  |  |  |  |
| With Invalid Input | | 3 |  |  |  | Department @ 101 | |  | Error Message --> location | | |
|  |  |  |  |  |  |  |  |  | mustn't contain punctuations | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Valid Input | | 4 |  |  |  | User inputs 20 or | |  | Accepted |  |  |
|  |  |  |  |  |  | more words | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Invalid Input | | 5 |  | Write reason | | I request a | |  | Error Message --> Write | | |
|  |  |  |  |  |  | maintainance | |  | reason must contain at least | | |
|  |  |  |  |  |  | request on | |  | 20 words |  |  |
|  |  |  |  |  |  | department 101 | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Action** |  |  | **Description** |  |  |
| With Valid input | | 6 |  |  |  | Location --> | |  | Accepted |  |  |
|  |  |  |  |  |  | Department 101 , | |  |  |  |  |
|  |  |  |  |  |  | Write reason --> | |  |  |  |  |
|  |  |  |  |  |  | User inputs 20 or | |  |  |  |  |
|  |  |  |  |  |  | more words | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| With Invalid Input | | 7 |  |  |  | Location --> | |  | Error Message --> Location | | |
|  |  |  |  |  |  | 10th street in | |  | must be inside the company | | |
|  |  |  |  |  |  | Alexandria , | |  |  |  |  |
|  |  |  |  |  |  | Write reason --> | |  |  |  |  |
|  |  |  |  |  |  | User inputs 20 or | |  |  |  |  |
|  |  |  |  |  |  | more words | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 8 |  |  |  | Location --> | |  | Error Message --> location | | |
|  |  |  |  | Submit | | Department @ 101 , | |  | mustn't contain punctuations | | |
|  |  |  |  |  |  | Write reason --> | |  |  |  |  |
|  |  |  |  |  |  | User inputs 20 or | |  |  |  |  |
|  |  |  |  |  |  | more words | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 9 |  |  |  | Location --> | |  | Error Message --> Write | | |
|  |  |  |  |  |  | Department 101 , | |  | reason must contain at least | | |
|  |  |  |  |  |  | Write reason --> | |  | 20 words |  |  |
|  |  |  |  |  |  | I request a | |  |  |  |  |
|  |  |  |  |  |  | maintainance | |  |  |  |  |
|  |  |  |  |  |  | request on | |  |  |  |  |
|  |  |  |  |  |  | department 101 | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 10 |  |  |  | Location --> | |  | Error Message --> Write | | |
|  |  |  |  |  |  | Department @ 101 , | |  | reason must contain at least | | |
|  |  |  |  |  |  | Write reason --> | |  | 20 words, Location mustn't | | |
|  |  |  |  |  |  | I request a | |  | contain punctuations | | |
|  |  |  |  |  |  | maintainance | |  |  |  |  |
|  |  |  |  |  |  | request on | |  |  |  |  |
|  |  |  |  |  |  | department 101 | |  |  |  |  |
|  |  |  |  |  |  | request on | |  |  |  |  |
|  |  |  |  |  |  | department 101 | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Location --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | Blank, |  |  | Location Cannot Be Blank | | |
|  |  |  |  |  |  | Write reason --> | |  |  |  |  |
|  |  |  |  |  |  | User inputs 20 or | |  |  |  |  |
|  |  |  |  |  |  | more words | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Location --> | |  | Erorr Message --> | |  |
|  |  |  |  |  |  | Department 101 , | |  | reason cannot be Blank | | |
|  |  |  |  |  |  | Write reason --> | |  |  |  |  |
|  |  |  |  |  |  | Blank |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Location --> | |  | Error Message --> | |  |
|  |  |  |  |  |  | Blank |  |  | Location Cannot Be Blank | | |
|  |  |  |  |  |  | Write reason --> | |  | ,reason cannot be Blank | | |
|  |  |  |  |  |  | Blank |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | Request Maintenance | |  |  |  |
| 3.1 | Request History --> Text Box | |  |  |  |
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| 3.2.1 | must not have punctuation marks | | |  |  |
| 3.2.2 | Location must be inside the company | | |  |  |
| 3.3 | Write reason --> Text Field | |  |  |  |
| 3.3.1 | can't have less than 20 words | |  |  |  |
| 3.4 | submit --> button |  |  |  |  |
| 3.4.1 | Both the loaction and reason must be filled | | | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Input Values** |  |  | **Description** |  |  |
| with valid inputs | | 1 |  |  |  | report.pdf | |  | Accepted |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| with invalid inputs | | 2 |  | Drag a report | | report.xlx | |  | Error message--> | |  |
|  |  |  |  |  |  |  |  |  | incorrect format must be pdf | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 3 |  |  |  | report.png | |  | Error message--> | |  |
|  |  |  |  |  |  |  |  |  | incorrect format must be pdf | | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Test Requirement** |  | **Test Case Number** |  | **Component** |  | **Action** |  |  | **Description** |  |  |
| with valid inputs | | 4 |  | Upload | | uplaod report.pdf | |  | Accepted |  |  |
|  |  |  |  |  |  | then click button | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| with invalid inputs | | 5 |  |  |  | upload nothing | |  | Error message--> | |  |
|  |  |  |  |  |  | click button | |  | empty reports box | |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

**Unit Testing**

**U1**

**A screenshot of a computer

Description automatically generated with low confidence**

**U2**

**A screenshot of a computer program

Description automatically generated with medium confidence**

**U3**

**A screenshot of a computer

Description automatically generated with low confidence**

**U4**

**A screenshot of a computer

Description automatically generated with medium confidence**

**U5**

**A screenshot of a computer program

Description automatically generated with low confidence**

**U6**

**A screenshot of a computer program

Description automatically generated with low confidence**

**Test Plan**

Unit Test U1

Unit test U2

Unit Test U3

Unit test U4

Unit Test U5

Unit test U6

Unit test M1

Unit test M2

Unit test M3

Unit test M4

Integration Testing for M1, U6, U1

Regression testing for U6

Regression testing for U1

Regression Testing for M1, U1, U6

Integration Testing for M2, U6, U3, U2, U1

Regression testing for U6

Regression testing for U3

Regression testing for U2

Regression testing for U1

Regression Testing for M2, U6, U2, U3, U1

Regression Testing for M1, U1, U6

Integration Testing for M3, U6, U5, U2, U1

Regression testing for U6

Regression testing for U5

Regression testing for U2

Regression testing for U1

Regression Testing for M3, U6, U5, U2, U1

Regression Testing for M1, U1, U6

Regression Testing for M2, U6, U2, U3, U1

Integration Testing for M4, U6, U4, U1

Regression testing for U6

Regression testing for U4

Regression testing for U1

Regression Testing for M4, U6, U4, U1

Regression Testing for M3, U6, U5, U2, U1

Regression Testing for M1, U1, U6

Regression Testing for M2, U6, U2, U3, U1

-------------------------------------------------------------------------------------

M1 is dependent on U1, U6

M2 is dependent on U6, U3, U2, U1

M3 is dependent on U6, U5, U2, U1

M4 is dependent on U6, U4, U1

A picture containing text, screenshot, line, plot

Description automatically generated