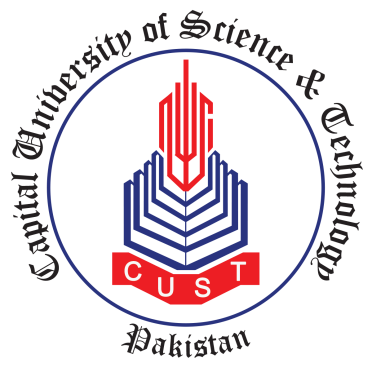
**CAPITAL UNIVERSITY OF SCIENCE & TECHNOLOGY, ISLAMABAD**



**Assignment #03**

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**Section 1**

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Table of Contents

**Function 1 Requirement2**

Cause /Effect3

Graph3

Decision table 4

Test cases4

**Function 2 Requirement** **4**

Cause /Effect5

Graph5

Decision table 6

Test cases6

**Function 3 Requirement6**

Cause /Effect7

Graph7

Decision table 8

Test cases8

**Function 1 Requirement**

## Login (String Username, String password);

* Enter correct username and correct password and click on login, and the expected result will be the user should be navigated to homepage
* Enter wrong username and wrong password and click on login, and the expected result will be the user should get an error message
* Enter correct username and wrong password and click on login, and the expected result will be the user should get an error message
* Enter wrong username and correct password and click on login, and the expected result will be the user should get an error message

**Causes/Effects**

C1: username correct

C2: password incorrect

C3: username incorrect

C4: password correct

E1: navigate to homepage

E2: an error message

**Function 1 Graph:**

**C1 AND E1**

**C2 AND**

**C3** AND

**C4 AND E2**

**Decision Table**

|  |  |  |
| --- | --- | --- |
|  |  | **1 2 3 4** |
| **Condition/Cause** | **C1** | **1 0 0 1** |
| **Condition/Cause** | **C2** | **0 1 1 0** |
| **Condition/Cause** | **C3** | **1 1 0 0** |
| **Condition/Cause** | **C4** | **0 0 1 1** |
| **Action/Effort** | **E1** | **x x - -** |
| **Action/Effort** | **E2** |   **- x x** |

**Test Cases Function 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Cases** | **Username** | **Password** | **Expected Output** |
| **1** | T | **T** | navigate to homepage |
| **2** | **T** | **F** | an error message |
| **3** | **F** | **T** | an error message |
| **4** | **F** | **F** | an error message |

**Test cases**

**Function 2 Requirement**

## Get Reports (int Account Number, Date date);

* Enter correct Account number and valid date and click on report, and the expected result will be the user should be navigated to report.
* Enter wrong Account number and invalid date and click on report, and the expected result will be the user should get an error message
* Enter correct Account number and invalid date and click on report, and the expected result will be the user should get an error message
* Enter wrong Account number and valid date and click on report, and the expected result will be the user should get an error message

**Causes/Effects**

C1: Account number correct

C2: date incorrect

C3: Account number incorrect

C4: date correct

E1: navigate to report.

E2: an error message

**Function 2 Graph:**

**C1 AND E1**

**C2 AND**

**C3** AND

**C4 AND E2**

**Decision Table**

|  |  |  |
| --- | --- | --- |
|  |  | **1 2 3 4** |
| **Condition/Cause** | **C1** | **1 0 0 1** |
| **Condition/Cause** | **C2** | **0 1 1 0** |
| **Condition/Cause** | **C3** | **1 1 0 0** |
| **Condition/Cause** | **C4** | **0 0 1 1** |
| **Action/Effort** | **E1** | **x x - -** |
| **Action/Effort** | **E2** |   **- x x** |

**Test Cases Function 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Cases** | **Account number** | **Date** | **Expected Output** |
| **1** | 12345 | **10/02/2021** | navigate to report |
| **2** | 12345 | **31/02/2021** | an error message |
| **3** | **123** | **10/02/2021** | an error message |
| **4** | **123** | **31/02/2021** | an error message |

**Test cases**

* **12345 is a valid account number**
* **31/02/2021 date not exist because there is no 31st of February.**

**Function 3 Requirement**

## Register Employee (String name, String password, int emp\_id)

* Enter correct name, correct password and valid employee id and click on register, and the expected result will be the user should be registered successfully.
* Enter wrong name, incorrect password and invalid employee id and click on register, and the expected result will be the user should get an error message
* Enter correct name, correct password and invalid employee id and click on register, and the expected result will be the user should get an error message
* Enter correct name, invalid password and valid employee id and click on register, and the expected result will be the user should get an error message
* Enter wrong name, correct password and valid employee id and click on register, and the expected result will be the user should get an error message.
* Enter wrong name, correct password and invalid employee id and click on register, and the expected result will be the user should get an error message.
* Enter wrong name, incorrect password and valid employee id and click on register, and the expected result will be the user should get an error message.

**Causes/Effects**

1. C1: correct name
2. C2: correct password
3. C3: correct employee id
4. C4: incorrect name
5. C5: incorrect password
6. C6: incorrect employee id
7. E1: Register employee.
8. E2: an error message

**Function 2 Graph:**

**C1 AND E1**

**C2 AND**

**C3** AND

**C4 AND E2**

**C5**

**C6**

**Decision Table**

|  |  |  |
| --- | --- | --- |
|  |  | **1 2 3 4 5 6** |
| **Condition/Cause** | **C1** | **1 1 1 0 0 0** |
| **Condition/Cause** | **C2** | **0 0 0 1 1 1** |
| **Condition/Cause** | **C3** | **1 0 0 0 1 1** |
| **Condition/Cause** | **C4** | **1 1 0 0 0 1** |
| **Condition/Cause** | **C5** | **0 1 1 1 0 0** |
| **Condition/Cause** | **C6** | **0 0 1 1 1 0** |
| **Action/Effort** | **E1** | **x x - -** |
| **Action/Effort** | **E2** |   **- x x** |

**Test Cases Function 3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Cases** | **name** | **Password** | **Employee id** | **Expected Output** |
| **1** | azeem | **12345** | **manager** | Register |
| **2** | azeem | **‘’#/** | **manager** | an error message |
| **3** | azeem | **12345** | **mag** | an error message |
| **4** | **Az#1#** | **12345** | **mag** | an error message |
| **5** | **Az#1#** | **#;];** | **manager** | an error message |
| **6** | **Az#1#1** | **‘.;][** | **mag** | an error message |
| **7** | **Az#1#1** | **12345** | **manager** | an error message |

**Test cases**

Correct credential condition is:

* Name will be in string
* Password is in integer and not contain special character
* Employee id Is Manager not “mag”