**Unit Testing**

**1. Web Application**

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| Type | Github ID | Subject | Test Name | Step Name | Description | Expected Result |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Login into the EMS of Web Application | The purpose of this test is to verify that the User Id and Password of user is valid. | Step - 1 | Insert wrong User Id and Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -2 | Insert Wrong User Id and valid Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -3 | Insert Valid User Id and Wrong Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -4 | Insert Nothing in User Id and Password fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -5 | Insert Nothing in User Id and insert Valid Password fields. And Click on Login Button. | **EMs** will display error message. And Failed to Login. |
|  |  |  |  | Step -6 | Insert Nothing in Password and insert Valid User Id fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -7 | Insert Nothing in User Id and insert invalid Password fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step - 8 | Insert Nothing in Password and insert invalid User Id fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -9 | Insert valid User Id and Password. And Click on Login Button. | Successfully login. |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Registration for New EMSUser. | The purpose of this test is to verify that the all new connection could be creating new Account By Registration. | Step -1 | Fill in Registration Form | Filling the Form |
|  |  |  |  | Step -2 | Enter existing new User Id, Password, Retype Same password and Hints. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -3 | Enter existing new User Id, Password, Retype Same password and Hints. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -4 | Enter new User Id, Password, Retype Different password and Hints. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -5 | Enter new User Id, Password, Retype Same password and enter nothing in Hints fields. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -6 | Enter new User Id, Password, Hints and nothing in Retype password field. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -7 | Enter nothing new User Id, Password, Retype password and Hints Fields. And Click on Login Button. | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -8 | Enter Proper new User Id, Password, Retype Same password and Hints Fields. And Click on Login Button. | Successful Registration is done and this area is closed and come to login area. |
|  |  |  |  | Step - 9 | Enter User First Name using by Number | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step - 10 | Enter User First Name using by Number | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -10 | Enter User First Name using by Alphabet | Successful Registration is done |
|  |  |  |  | Step - 11 | Enter Nothing | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step -12 | Enter User Last Name using by Alphabet | Successful Registration is done |
|  |  |  |  | Step - 13 | Enter User Phone Number using by Alphabet | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step - 14 | Enter Nothing | **EMS** will display error message. And Failed to Registration. |
|  |  |  |  | Step - 15 | Enter Phone number using by Number | Successful Registration is done |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Expenses | The purpose of this test is to verify that the Add New Expenses | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Purpose | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Income | The purpose of this test is to verify that the Add New Income | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Purpose | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Contact | The purpose of this test is to verify that the Add New Contact | Step – 1 | Enter User Name using by Number | **EMS** will display error message. And Failed to Add in Address Book. |
|  |  |  |  | Step - 2 | Enter Nothing  In Name | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step – 3 | Enter User Name using by Alphabet | Successful Added |
|  |  |  |  | Step – 3 | Enter User Phone Number using by Alphabet | **EMS** will display error message. And Failed to Add to Address Book. |
|  |  |  |  | Step - 4 | Enter Nothing in Phone number | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 5 | Enter Phone number using by Number | Successful Added |
|  |  |  |  | Step – 6 | Enter Address | Successful Added |
|  |  |  |  | Step - 7 | Enter Nothing in Address | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step – 8 | Enter Notes | Successful Added |
|  |  |  |  | Step - 9 | Enter Nothing in Notes | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Logout into the EMS of Web Application | The purpose of this test is Logout | Step - 1 | Click Logout Button and Go to the Home Page | **EMS** will display the Home Page |

**2. Desktop Application**

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| Type | Github ID | Subject | Test Name | Step Name | Description | Expected Result |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Expenses | The purpose of this test is to verify that the Add New Expenses | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Purpose | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Income | The purpose of this test is to verify that the Add New Income | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Purpose | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Contact | The purpose of this test is to verify that the Add New Contact | Step – 1 | Enter User Name using by Number | **EMS** will display error message. And Failed to Add in Address Book. |
|  |  |  |  | Step - 2 | Enter Nothing  In Name | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step – 3 | Enter User Name using by Alphabet | Successful Added |
|  |  |  |  | Step – 3 | Enter User Phone Number using by Alphabet | **EMS** will display error message. And Failed to Add to Address Book. |
|  |  |  |  | Step - 4 | Enter Nothing in Phone number | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 5 | Enter Phone number using by Number | Successful Added |
|  |  |  |  | Step – 6 | Enter Address | Successful Added |
|  |  |  |  | Step - 7 | Enter Nothing in Address | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step – 8 | Enter Notes | Successful Added |
|  |  |  |  | Step - 9 | Enter Nothing in Notes | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Calculator | The purpose of this test is Standard Calculator | Step - 1 | Click in “+” Button And Try to Addition | **EMS** will display the Result |
|  |  |  |  | Step - 2 | Click in “-“ Button And Try to Subtraction | **EMS** will display the Result |
|  |  |  |  | Step - 3 | Click in ”\*” Button And Try to Multiplication | **EMS** will display the Result |
|  |  |  |  | Step - 4 | Click in “/” Button And Try to Division | **EMS** will display the Result |
|  |  |  |  | Step - 5 | Click in “%” Button And Try to Percentage | **EMS** will display the Result |
|  |  |  |  | Step - 6 | Click in Various Types of Calculator and Try to Mathematical Operation | **EMS** will display the Result |

**2. Mobile Application**

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| Type | Github ID | Subject | Test Name | Step Name | Description | Expected Result |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Login into the EMS of Web Application | The purpose of this test is to verify that the User Id and Password of user is valid. | Step - 1 | Insert wrong User Id and Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -2 | Insert Wrong User Id and valid Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -3 | Insert Valid User Id and Wrong Password. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -4 | Insert Nothing in User Id and Password fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -5 | Insert Nothing in User Id and insert Valid Password fields. And Click on Login Button. | **EMs** will display error message. And Failed to Login. |
|  |  |  |  | Step -6 | Insert Nothing in Password and insert Valid User Id fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -7 | Insert Nothing in User Id and insert invalid Password fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step - 8 | Insert Nothing in Password and insert invalid User Id fields. And Click on Login Button. | **EMS** will display error message. And Failed to Login. |
|  |  |  |  | Step -9 | Insert valid User Id and Password. And Click on Login Button. | Successfully login. |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Expenses | The purpose of this test is to verify that the Add New Expenses | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Description | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 5 | Enter Nothing  In Month | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Add a New Income | The purpose of this test is to verify that the Add New Income | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Description | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 5 | Enter Nothing  In Month | **EMS** will display error message. And not to update the Transaction |
| Manual | ad53f8fcc7f6cae251c32d8e5b4e8d628ad2bbed | Check Successful Created Budget | The purpose of this test is to verify that the Create a New Budget | Step - 1 | Enter Amount using by Alphabet | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 2 | Enter Nothing | **EMS** will display error message. And not to update the Transaction |
|  |  |  |  | Step - 3 | Enter Amount using by number | **EMS** will display Successfully Added |
|  |  |  |  | Step - 4 | Enter Nothing  In Month | **EMS** will display error message. And not to update the Transaction |