**3. UNIT TESTS**

**3.1 Test Cases**

The main objective of unit tests is to test each individual units of the source code because all modules of the system must work in efficiency properly. For that reason, white box and black box tests are applied. The unit tests will be handled for separate components in the system. The components are Operator Interface and User Interface.

**3.2 Scripts**

**3.2.1 Cases for Operator**

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| --- | --- | --- |
| Test Number | Test Description / Sample Input | Expected Result |
| 1 | Invalid Operator User Name and Password Combination | Show an error window and keep waiting on the login page. |
| 2 | Invalid characters on User Name and Password | Show an error window and keep waiting on the login page. |
| 3 | Valid Operator User Name and Password Combination | Open the default home page for the Operator User |
| 4 | Valid new mission insertion | Add the new mission to the mission list. |
| 5 | Information validation check request | Show the result of the check process |
| 6 | New mission insertion with invalid information | Warn the Operator and request a new insertion attempt. |
| 7 | New destination for the mission (Update) | Update the destination information for the requested mission. |
| 8 | List all the missions | Information of the all missions must be read from the database and listed. |
| 9 | Show Operator Information | Read the operator information from the database and show them on a new page. |
| 10 | Show a Specific User’s Information | Read the user information from the database and show them on a new page. |
| 11 | Log Out Request | Log the operator out from the system and direct the operator to the site’s main page. |
| 12 | Show Information for a Specific Mission | Show the information for the requested mission on a new page. |
| 13 | Request of getting the statistical data for the requested time period | Read data from the database and after doing required calculations show the statistical data to the operator. |
| 14 | Print the requested mission/s | Print the mission/s with the information taken from the database |

**3.2.2 Cases for User**

|  |  |  |
| --- | --- | --- |
| Test Number | Test Description / Sample Input | Expected Result |
| 1 | Invalid characters on User Name and Password | Show an error window and keep waiting on the login page. |
| 2 | No match for entered User Name and Password on the Database | Show an error window and keep waiting on the login page. |
| 3 | A match is found for the entered User Name and Password on the Database | Open the default home page for the User. |
| 4 | Valid delivery information | Show a notification window and insert the delivery request to the system. |
| 5 | Invalid delivery ID | Do not accept the delivery request and show a notification window. |
| 6 | Personal information change request and valid new information for the user | Show a notification telling about the requirement of an e-mail confirmation for the new information |
| 7 | Help Request | Direct the user to Operator Help Page |
| 8 | Show Personal Information | Read the user information from the database and show them on a new page. |
| 9 | Show Last Deliveries | Read the delivery information from the database for the user and list them. |
| 10 | Log Out Request | Log the user out from the system and direct the user to the site‘s main page. |
| 11 | Search an item | Search for the requested item on database and show the information related with it on a new page. |
| 12 | Show the status of the current mission | Show the requested mission’s information by its ID from the database |
| 13 | Print request for the mission | Print the mission information |