**TC01:**

**Title**: Story 1 – Search about non existing Computer.

**Description:**As a visitor user I should be able to search about computers so that I can find a specific computer in the table.

**Precondition:** None.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Navigate to the home screen of the application.
2. In the search box enter a name of computer not exist in the table.
3. Click the ‘Filter by name’ button.

**Expected Result:**

1. The user redirected to the search result screen.
2. Message “Nothing to display” appeared.

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**TC02:**

**Title**: Story 2 – Add New Computer (cancel then Add).

**Description:**As a user I should be able to Add New Computer in the system so that I can access Add New Computer form and fill data then press cancel to revert.

**Precondition:** application opened and the input data “computer name” not exist in the table.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Navigate to Add a new computer form by press Add a new computer button.
2. In the ‘Computer name’ field, enter the new Computer name.
3. Enter the Introduced date by the following format 'yyyy-MM-dd'.
4. Enter the Discontinued date by the following format 'yyyy-MM-dd'.
5. Choose the company from the list.
6. Click ‘Cancel’.

**Expected Result:**

1. Entered data will be ignored and the user redirected to the home screen without no changes.

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**TC03:**

**Title**: Story 3 – Add New Computer (cancel then Add).

**Description:**As a user I should be able to Add New Computer in the system so that I can access Add New Computer form and fill data then press cancel to revert.

**Precondition:** application opened and the input data “computer name” not exist in the table.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Navigate to Add a new computer form by press Add a new computer button.
2. In the ‘Computer name’ field, enter the new Computer name.
3. Enter the Introduced date by the following format 'yyyy-MM-dd'.
4. Enter the Discontinued date by the following format 'yyyy-MM-dd'.
5. Choose the company from the list.
6. Click ‘Create this computer’.

**Expected Result:**

* 1. The user redirected to the home screen.
  2. Message to confirm creation will appeared.
  3. Number of computers will be increased by 1.

**Other Scenarios:**

1. Try to leave computer name field empty and press ‘Create this computer’ and check error message.
2. Try to leave Introduced date field empty and press ‘Create this computer’ and check error message.
3. Try to leave Discontinued date field empty and press ‘Create this computer’ and check error message.
4. Try to enter Introduced date by wrong format and press ‘Create this computer’ then check error message.
5. Try to enter Discontinued date by wrong format and press ‘Create this computer’ then check error message.

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**TC04:**

**Title**: Story 4 – Search about existing Computer.

**Description:**As a visitor user I should be able to search about computers so that I can access the computer page.

**Precondition:** None.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Navigate to the home screen of the application.
2. In the search box enter a name of computer added in the previous test case or any existing one.
3. Click the ‘Filter by name’ button.

**Expected Result:**

1. The user redirected to the search result screen.
2. A record with entered computer name will be appeared.

**Other Scenarios:**

Try many combinations of computer name as reverse name of computer or part of name.

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**TC05,06,07,08:**

**Title**: Story 5,6,7,8 – Sort by Computer name, Introduced, Discontinued, Company.

**Description:**As a user I should be able to sort by Computer name, Introduced, Discontinued, Company. so that I can navigate between records of computers.

**Precondition:** None.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Navigate to the home screen of the application.
2. Click on the header of column “Computer name, Introduced, Discontinued, Company”.

**Expected Result:**

1. By the first click the table will be sorted in descending order and by the second click it will be sorted in ascending order and the sort will be reversed with each click.

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**TC09:**

**Title**: Story 9 – Delete Computer.

**Description:**As a user I should be able to delete Computer from the system so that I can remove unwanted Computers from application data base.

**Precondition:** Application opened and the wanted computer name exist in the table.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Search about ‘Computer name’.
2. Navigate to the computer page by press on its name in the record of search result.
3. Click ‘Delete this computer’.

**Expected Result:**

* 1. The user redirected to the home screen.
  2. Message to confirm deletion will appeared.
  3. Number of computers will be decreased by 1.

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**TC10,11:**

**Title**: Story 10,11 – Edit Computer (Cancel & Save).

**Description:**As a user I should be able to edit Computer from the system so that I can change unwanted Computers data from application data base.

**Precondition:** Application opened and the wanted computer name exist in the table.

**Assumption:** a supported browser is being used.

**Test Steps:**

1. Search about ‘Computer name’.
2. Navigate to the computer page by press on its name in the record of search result.
3. Change data fields.
4. For TC10 press Cancel, For TC11 press Save.

**Expected Result:**

* 1. The user redirected to the home screen.
  2. For TC10 no changes happened, For TC11: Message to confirm updating will appeared.

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**# Automation Test** **Scenario:**

1. Open Application and confirm its loaded.
2. Search on non-existing computer “Ashour”.
3. Add “Ashour” computer data and cancel then check it is not found.
4. Add “Ashour” computer and search on it to confirm and check the increasing of number of computers by 1.
5. Sort by Computer name, Introduced, Discontinued and Company ascending then descending.
6. Search on “Ashour” computer then Delete it.
7. Each step in this scenario mentioned with each result and running time in the auto created test report file “Test\_Report.txt”.
8. I create this scenario by generic functions to be easy to reuse it and make many combinations to be able to create unlimited number of scenarios in minutes.

**# Other Automation Test** **Scenarios:** (Can be added at any time if requested but it need more time and I preferred to send my answers to you today to be able to check them before next week).

1. Connect input data with data base to test more input data combinations.
2. Add & Edit computer scenarios by edit each input field individually.