

Project	BB Computers Application
User Story	Testing CRUD operations
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## Sample for some Test Cases:

### CRUD Operation Test Cases

#### 1- TC0001: Add Computer - Check create new computer with all valid data.

##### Precondition:

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- The user must be able to access the URL.

##### Test Steps Description:

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- Navigate to <http://computer-database.herokuapp.com/computers> .
- In the Home Page , Click on a button called "**Add a new computer**".
- In "**Add a computer**" page ... enter a valid text or numbers in "computer name" text box ... Enter (**Dell XPS 13** ).
- Enter valid date in "**Introduced date**" ... Enter (**2019-05-01**).
- Enter valid date in "**Discontinued date**" ... Enter (**2019-07-10**).
- Select any company from the dropdown list ... Select (**Micro Instrumentation and Telemetry Systems**).
- Press on "**Create this computer**" button.

##### Expected Results:

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- Redirect to home page and a message appears called "**Done! Computer Dell XPS 13 has been created.**"

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## 2- TC0002: Add Computer - Check create new computer with all invalid data.

### Precondition:

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- The user must be able to access the URL.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the Home Page , Click on a button called "**Add a new computer**".
- c) In "**Add a computer**" page ... enter an invalid special characters in "computer name" text box ... Enter (!@#%&\*)^).
- d) Enter invalid date format (dd-MM-yyy) in "**Introduced date**" ... Enter (01-05-2019).
- e) Enter invalid date format (dd-MM-yyy) in "**Discontinued date**" ... Enter (05-05-2019).
- f) Do not select value from the dropdown list.
- g) Press on "**Create this computer**" button.

### Expected Results:

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- Computer name text box should not accept special characters and "**Computer name**" field should be highlighted with red.
- Application should not accept entered date format and "**Introduced date**" field should be highlighted with red.
- Application should not accept entered date format and "**Discontinued date**" field should be highlighted with red.

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### 3- TC0003: Add Computer - Validating the mandatory field in the "Add a computer" form.

#### Precondition:

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- The user must be able to access the URL.

#### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the Home Page , Click on a button called "**Add a new computer**".
- c) In "**Add a computer**" page, leave the "Computer name" textbox empty.
- d) Press on "**Create this computer**" button.

#### Expected Results:

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- A computer should not created and a "**Computer name**" field should be highlighted with red.

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#### 4- TC0004: Add Computer - Check that computer name is not allowed to be duplicate.

##### Precondition:

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- The user must be able to access the URL.

##### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the Home Page , Click on a button called **"Add a new computer"**.
- c) In **"Add a computer"** page ... Enter a computer name **already exists** in the field **"Computer name"** (**Dell XPS 13** ).
- d) Enter valid date in **"Introduced date"** ... Enter (**2019-05-01**).
- e) Enter valid date in **"Discontinued date"** ... Enter (**2019-07-10**).
- f) Select **same** company from the dropdown list ... Select (**Micro Instrumentation and Telemetry Systems**).
- g) Press on **"Create this computer"** button.

##### Expected Results:

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- Saving operation should be terminated and a message called "Computer name already exists" should appears.

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## 5- TC0005: Search Computer - Check searching for an existing computer name

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the home page, Enter an existing computer name in the search box ... Enter (**Dell XPS 13** ).
- c) Click on "**Filter By name**" button.

### Expected Results:

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- computer details should be returned in the grid.

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## 6- TC0006: Search Computer - Check searching for a non-existing computer name

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the home page, Enter a non existing computer name in the search box ... Enter (xxxxxxxx).
- c) Click on "**Filter By name**" button.

### Expected Results:

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- A message appears called "*Nothing to display*".

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## 7- TC0007: Search Computer - Check data retrieved correctly when searching for an existing computer name

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the home page, enter an existing computer name in the search box ... Enter (**Dell XPS 13** ).
- c) Click on "**Filter By name**" button.
- d) Click on the computer name link in the returned results in the grid.

### Expected Results:

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- Computer details retrieved successfully in the "Edit Computer" form.
- User should be able to see the details of the selected computer.

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## 8- TC0008: Edit Computer - Check Edit an existing computer name with valid data

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers> .
- b) In the home page, enter an existing computer name in the search box ... Enter (**Dell XPS 13** ).
- c) Click on "**Filter By name**" button.
- d) Click on the computer name link in the returned results in the grid.
- e) Edit "**Computer name**" field ... Enter (**Dell Latitude 6666**).
- f) Edit "**Introduced date**" field ... Enter (**2019-05-02**).
- g) Edit "**Discontinued date**" field ... Enter (**2019-07-11**).
- h) Select any company from the dropdown list ... Select (**Lincoln Laboratory**).
- i) Press on "**Save this computer**" button.

### Expected Results:

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- Redirect to home page and a message appears called "**Done! Computer Dell Latitude 6666 has been updated.**"

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## 9- TC0009: Edit Computer - Check Edit an existing computer name with invalid data

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- Navigate to <http://computer-database.herokuapp.com/computers> .
- In the home page, enter an existing computer name in the search box ... Enter (**Dell Latitude 6666** ).
- Click on "**Filter By name**" button.
- Click on the computer name link in the returned results in the grid.
- Edit "**Computer name**" field ... Enter an invalid special characters in "computer name" text box ... Enter (!@#%&\*)^).
- Edit "**Introduced date**" field with invalid date format (dd-MM-yyy) ... Enter (**01-05-2019**).
- Edit "**Discontinued date**" field with invalid date format (dd-MM-yyy) ... Enter (**05-05-2019**).
- Do not select value from the dropdown list.
- Press on "**Create this computer**" button.

### Expected Results:

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- Editing process terminated.
- Computer name text box should not accept special characters and "**Computer name**" field should be highlighted with red.
- Application should not accept entered date format and "**Introduced date**" field should be highlighted with red.
- Application should not accept entered date format and "**Discontinued date**" field should be highlighted with red.

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## 10- TC00010: Delete Computer - Check deleting an existing computer name

### Precondition:

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- Computer names should be exist in database.

### Test Steps Description:

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- a) Navigate to <http://computer-database.herokuapp.com/computers>.
- b) In the home page, enter an existing computer name in the search box ... Enter (**Dell Latitude 6666**).
- c) Click on "**Filter By name**" button.
- d) Click on the computer name link in the returned results in the grid.
- e) Press on "**Delete this computer**" button.

### Expected Results:

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- Redirect to home page and a message appears called "**Done! Computer has been deleted.**"

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