Test Suite

Sample Application –

Computer Database

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1   Document Information

1.1 Document Overview

This document is intended to provide a suite of manual tests for sample application – Computer Database and covers the CRUD operations and edge cases.

1.2 Sample application

The sample application used in this test suite can be reached with a following link:

http://computer-database.herokuapp.com/computers

2   Detailed Test Cases

2.1. Main page tests

T1: Verify Computed database main page controls

Preconditions

1. Internet connection is established

Steps

1. The user navigates to the main page of Computer Database (http://computer-database.herokuapp.com/computers)

Expected Result

The "Play Sample Application – Computer database" page opens with a table consisting of four columns: Computer name, Introduced, Discontinued and Company. The previously added computer records are listed in the table. Total number of computers is mentioned on the top of the page, e.g. "586 computers found" The buttons "Add new computer" and "Filter by name" are available for a user. The search filed "Filter by computer name…" accepts the input. The user is able to edit the computer by clicking on it's name.

T2: Search for computer from the list with it's full name

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The computer with a full name including upper and lower case letters, digits, spaces and special characters was added to the database (e.g., Test_1!@Space #$%^>.?)

Steps

1. Enter the full name of computer from preconditions
2. Click "Filter by name" button

Expected Result

2.Searched computer is shown in the list

T3: Search for computer from the list with uppercase name in lowercase

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The computer with a name in upper case is added to the database (e.g., "TESTUPPERCASE")

Steps

1. Enter the name of computer from preconditions in lowercase into the search field
2. Click "Filter by name" button

Expected Result

2.Searched computer is shown in the list

T4: Search for computer from the list with the first part of it's name

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The computer with a certain name is added to the database

Steps

1. Enter the first part of the name of computer from preconditions into the search field
2. Click "Filter by name" button

Expected Result

2.Searched computer is shown in the list

T5: Search for computer from the list with the last part of it's name

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The computer with a certain name is added to the database

Steps

1. Enter the last part of the name of computer from preconditions into the search field
2. Click "Filter by name" button

Expected Result

2.Searched computer is shown in the list

T6: Search for computer from the list with the middle part of it's name

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The computer with a certain name is added to the database

Steps

1. Enter the middle part of the name of computer from preconditions into the search field
2. Click "Filter by name" button

Expected Result

2.Searched computer is shown in the list

T7: Search for computer name that is not in the list

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database

Steps

1. Enter the name of computer which is not in the list
2. Click "Filter by name" button

Expected Result

2.Search results are empty. "Nothing to display" message is shown

T8: Clear search field using X button

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database

Steps

1. Enter some word in the search field
2. Click "Filter by name" button
3. Click X button in the search field

Expected Result

2.The field is cleared

T9: Clear search field using Backspace

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database

Steps

1. Enter some word in the search field
2. Click "Filter by name" button
3. Use Backspace on the keyboard to delete the text in the field

Expected Result

2.The field is cleared

T10: Verify pagination

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. More than 10 computers were added to the database

Steps

1. Click "Next" button to see the next page
2. Click "Previous" button to see the previous page

Expected Result

1.The next 10 computers are being shown. The text next to the button changed correspondingly to the numbers of computers shown.
2.The previous 10 computers are being shown.

2.2. Add computer tests

T11: Add a new computer successfully

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Enter valid dates in "Introduced date" and "Discontinued date" in correct format, e.g. 1990-01-01 and 1999-01-01 correspondingly
3. Select some company from the drop-down list
4. Click "Create this computer" button
5. Search for the computer by name
6. Click the link in the header "Play ample application – Computer database"

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.
5.Newly added computer is in the list of computers. The name, dates and company are corresponding to what was set.
6.Main list with all computers is shown. The number of computers found increased by one.

T12: Add a new computer with only name filled

Preconditions

      1.Internet connection is established
      2.The user is on the main page of Computer Database
      3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Leave "Introduced date" and "Discontinued date" fields empty
3. Don't select company from the drop-down list
4. Click "Create this computer" button

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T13: Add a new computer with only name and introduced date filled

Preconditions

      1.Internet connection is established
      2.The user is on the main page of Computer Database
      3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Enter valid date in "Introduced date" in correct format, e.g. 1990-01-01 and leave "Discontinued date" empty
3. Don't select company from the drop-down list
4. Click "Create this computer" button

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T14: Add a new computer with only name and discontinued date filled

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Enter valid date in "Discontinued date" in correct format, e.g. 1990-01-01 and leave "Introduced date" empty
3. Don't select company from the drop-down list
4. Click "Create this computer" button

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T15: Add a new computer with only name and company filled

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Leave "Introduced date" and "Discontinued date" fields empty
3. Select some company from the drop-down list
4. Click "Create this computer" button

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T16: Add a computer with all fields empty

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Click "Create this computer" button

Expected Result

"Computer name" field is highlighted in red and marked as "Required". Computer is not created.

T17: Add a computer with only name field

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer" and leave all other fields empty
2. Click "Create this computer" button

Expected Result

2.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T18: Add a computer with all fields filled in except "Computer name"

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid dates in "Introduced date" and "Discontinued date" fields and select the company from the drop-down
2. Click "Create this computer" button

Expected Result

"Computer name" field is highlighted in red and marked as "Required". Computer is not created.

T19: "Computer name" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter one character in "Computer name" field
2. Click "Create this computer" button
3. Click "Add a new computer" button again
4. Repeat steps 1-3 with following input: name including digits, spaces, lower and uppercase letters, special characters, very long name (e.g. 1000 characters)

Expected Result

3,4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been created" message is shown on the top of the page.

T20: "Introduced date" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Enter one digit in "Introduced date" field

3. Click "Create this computer" button
4. Repeat steps 1-3 with following input: letters, special characters, other date formats like dd-MM-yyyy, yyyy-dd-MM with more than 12 for the dd input, yyyy/MM/dd, yyyy.MM.dd)

Expected Result

3,4."Introduced date" field is highlighted in red marked that date should be in the format of ('yyyy-MM-dd')

T21: "Discontinued date" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid name in "Computer name" field, e.g. "Test computer"
2. Enter one digit in "Discontinued date" field
3. Click "Create this computer" button
4. Repeat steps 1-3 with following input: letters, special characters, other date formats like dd-MM-yyyy, yyyy-dd-MM with more than 12 for the dd input, yyyy/MM/dd, yyyy.MM.dd)

Expected Result

3,4."Discontinued date" field is highlighted in red marked that date should be in the format of ('yyyy-MM-dd')

T22: Cancel adding the computer

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks "Add a new computer" button

Steps

1. Enter valid not existent name in "Computer name" field, e.g. "Test computer cancel"
2. Enter valid dates in "Introduced date" and "Discontinued date" in correct format, e.g. 1990-01-01 and 1999-01-01 correspondingly

3. Select some company from the drop-down list
4. Click "Cancel" button
5. Search for the full computer by name

Expected Result

4.The user is redirected to the main page of Computer Database.
5.The computer is not added to the database.

2.3. Edit computer tests

T23: Edit computer successfully

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name

Steps

1. Change the name to another valid name in "Computer name" field, e.g. "Test computer Edited"
2. Change the dates in "Introduced date" and "Discontinued date" to another valid dates
3. Select some other company from the drop-down list
4. Click "Save this computer" button
5. Search for the computer by name

Expected Result

4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been updated" message is shown on the top of the page.
5.Edited computer is in the list of computers. The name, dates and company are corresponding to what was set after edit.

T24: Save computed without name

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name

Steps

1. Delete the name in "Computer name" field
2. Click "Save this computer" button

Expected Result

"Computer name" field is highlighted in red and marked as "Required". Changes are not saved.

T25: Save computer without "Introduced date"

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name with name, "Introduced date" and "Discontinued date" and company

Steps

1. Delete "Introduced date"
2. Click "Save this computer" button
3. Search for the computer by name

Expected Result

2.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been updated" message is shown on the top of the page.
3.Edited computer is in the list of computers. The name, dates and company are corresponding to what was set after edit.

T26: Save computer without "Discontinue date"

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name with name, "Introduced date" and "Discontinued date" and company

Steps

1. Delete "Discontinued date"

2. Click "Save this computer" button
3. Search for the computer by name

Expected Result

2.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been updated" message is shown on the top of the page.
3.Edited computer is in the list of computers. The name, dates and company are corresponding to what was set after edit.

T27: Save computer without "Company" selected

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name with name, "Introduced date" and "Discontinued date" and company

Steps

1. Select "Choose a company" option in the company drop-down
2. Click "Save this computer" button
3. Search for the computer by name

Expected Result

2.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been updated" message is shown on the top of the page.
3.Edited computer is in the list of computers. The name, dates and company are corresponding to what was set after edit.

T28: "Computer name" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name in the list

Steps

1. Enter one character in "Computer name" field

2. Click "Save this computer" button
3. Click on existing computer's name in the list again
4. Repeat steps 1-3 with following input: name including digits, spaces, lower and uppercase letters, special characters, very long name (e.g. 1000 characters)

Expected Result

3,4.The user is redirected to the main page of Computer Database. "Done! Computer Test computer has been updated" message is shown on the top of the page.

T29: "Introduced date" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name in the list

Steps

1. Enter one digit in "Introduced date" field
2. Click "Save this computer" button
3. Repeat steps 1-3 with following input: letters, special characters, other date formats like dd-MM-yyyy, yyyy-dd-MM with more than 12 for the dd input, yyyy/MM/dd, yyyy.MM.dd)

Expected Result

3,4."Introduced date" field is highlighted in red marked that date should be in the format of ('yyyy-MM-dd')

T30: "Discontinued date" field validations

Preconditions

1.Internet connection is established
2.The user is on the main page of Computer Database
3.The user clicks on existing computer's name in the list

Steps

1. Enter one digit in "Discontinued date" field
2. Click "Create this computer" button

3. Repeat steps 1-3 with following input: letters, special characters, other date formats like dd-MM-yyyy, yyyy-dd-MM with more than 12 for the dd input, yyyy/MM/dd, yyyy.MM.dd)

Expected Result

3,4."Discontinued date" field is highlighted in red marked that date should be in the format of ('yyyy-MM-dd')

T31: Cancel editing the computer

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The user clicks on existing computer's name in the list

Steps

1. Change the name to another valid name in "Computer name" field, e.g. "Test computer Edited"
2. Change the dates in "Introduced date" and "Discontinued date" to another valid dates
3. Select some other company from the drop-down list
4. Click "Cancel" button
5. Search for the computer by full name

Expected Result

4. The user is redirected to the main page of Computer Database.
5. The changes were not saved.

2.4. Delete computer tests

T32: Delete computer successfully

Preconditions

1. Internet connection is established
2. The user is on the main page of Computer Database
3. The user clicks on existing computer's name

Steps

1. Click "Delete this computer button"

2. Search for the computer by full name
3. Click the link in the header "Play ample application – Computer database"

Expected Result

1.The user is redirected to the main page of Computer Database. "Done! Computer has been deleted" message is shown on the top of the page.

2.Deleted computer is not in the list of computers.

3.The number of computers found has decreased by one.