Test Cases to test Computer Database Web Application

Application URL: https://computer-database.gatling.io/computers

Functional Tests

Functionality: Add New Computer

Scenario 1: Verify that the "Add a computer" page is displayed upon clicking on the "Add a new computer" button.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the "Add a new computer" button	Add new computer page should be displayed.

Scenario 2: Verify that a new computer can be added successfully by clicking on the "Create this computer" button.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter Computer Name, Introduced date, Discontinued date	Values should be successfully entered
Choose Company	Company should be chosen successfully
Click on "Create this computer"	A success message saying "Done ! Computer {name} has been created"should be displayed on the homepage. Should be directed back to the homepage.Computer should be listed in the Computers list.Record should be saved in the Database Computers table.

Scenario 3: Verify that the added Computer is properly listed in the Computers list.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter Computer Name, Introduced date, Discontinued date	Values should be successfully entered
Choose Company	Company should be chosen successfully
Click on "Create this computer"	A success message saying "Done ! Computer {name} has been created"should be displayed on the homepage. Should be directed back to the homepage.Computer should be listed in the Computers list.
Observe the listed record of the computer	Computer name, Introduced date, Discontinued date and Company should be correct as per the entered data. Should match with the database record.

Scenario 4: Verify that adding a new computer can be canceled successfully by clicking on the Cancel button.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter Computer Name, Introduced date, Discontinued date	Values should be successfully entered
Choose Company	Company should be chosen successfully
Click on "Cancel"	Should be directed back to the homepage.Record should not be listed in the Computers list. Record should not be saved in the database Computers table.

Scenario 5: Verify that only numbers and "-" characters can be entered into the "Introduced" text box field.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter letters in to the "Introduced" field	Shouldn`t allow entering letters.
Enter "-" and "numbers" in to the "Introduced" field	No errors should be displayed. Should allow entering numbers and -

Scenario 6: Verify that only numbers and "-" can be entered into the "Discontinued" text box field.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter letters in to the "Discontinued" field	Shouldn`t allow entering letters.
Enter "-" and "numbers" in to the "Discontinued" field	No errors should be displayed. Should allow entering numbers and -

Scenario 7: Verify that only 10 characters can be entered into the "Introduced" text box field.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter characters in the "Introduced" field until full	Only 10 characters should be allowed

Scenario 8: Verify that only 10 characters can be entered into the "Discontinued" text box field.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.

Enter characters in the "Discontinued" field until full	Only 10 characters should be allowed

Scenario 9: Verify that all the Companies in the Database Company table appear in the Company dropdown.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the "Add new computer" button	Add new computer page should be displayed.
Check the Companies in the Company list	Company count and names should be matched with database Company table records

Scenario 10: Verify that a Company can be successfully selected from the dropdown.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Add new computer button	Company dropdown should be available.A company should be successfully selected.
Navigate to homepage	Homepage should be displayed
Click on a computer name	Edit page should be displayed.Company dropdown should be available.A company should be successfully selected.

Scenario 11: Verify that a Computer cannot be saved without the "Computer Name".

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.

| Click on the Add new computer button | Add new computer page should be displayed. |
| Save without Computer name | Saving should be unsuccessful, Error message should be displayed. |

Scenario 12: Verify that Introduced date is older than the discontinued date.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Add new computer button	Add new computer page should be displayed.
Enter an Introduced date newer than the discontinued date	Saving should be unsuccessful, Error message should be displayed.

Scenario 13: Verify that the Introduced date and Discontinued date cannot be equal.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Add new computer button	Add new computer page should be displayed.
Enter a the same discontinued date in the Introduced date field	Saving should be unsuccessful, Error message should be displayed.

Functionality: Edit Computer

Scenario 1: Verify that clicking on the "Computer name" link navigates to the "Edit Computer" page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.

Click on a Computer name link of a computer	Edit page should be displayed.

Scenario 2: Verify that the "Introduced" date can be edited successfully.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Edit the date in the "Introduced" field	Date should be entered successfully.
Click on the "Save this computer" button	Computer should be saved in the list and the database Computers table.Edited field should be correct.

Scenario 3: Verify that the "Discontinued" date can be edited successfully.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Edit the date in the "Discontinued" field	Date should be entered successfully.
Click on the "Save this computer" button	Computer should be saved in the list and the database Computers table.Edited field should be correct.

Scenario 4: Verify that the "Company" can be edited successfully.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Choose new "Company"	Company should be chosen successfully.
Click on the "Save this computer" button	Computer should be saved in the list and the

	database Computers table.Edited field should be correct.

Scenario 5: Verify that the "Introduced" date is older than the discontinued date.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Enter new "Introduced" date newer than the Discontinued date	Date should be entered successfully.
Click on the "Save this computer" button	Computer should not be saved in the list and the database Computers table.Error message should be displayed.

Scenario 6: Verify that "Introduced" date and "Discontinued" date cannot be equal.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Enter new "Introduced" date equal to the Discontinued date	Date should be entered successfully.
Click on the "Save this computer" button	Computer should not be saved in the list and the database Computers table.Error message should be displayed.

Scenario 7: Verify that editing can be canceled successfully.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.

Enter new values to all the fields.	Values should be successfully entered.
Click on Cancel	Computer should be saved in the list and the database Computers table with the same previous values.

Functionality: Delete Computer

Scenario 1: Verify that a previously added computer can be deleted.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a Computer name link of a computer	Edit page should be displayed.
Click on the "Delete computer" button	Computer should get deleted from the list and the database Computers table.Success message should be displayed.

Scenario 2: Verify that a filtered computer can be deleted.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter an existing Computer Name into the Filter text field	Values should be successfully entered
Click on the "Filter by name" button	Computer should be filtered and displayed successfully.
Click on the Computer name link of a computer	Edit page should be displayed.
Click on the "Delete computer" button	Computer should get deleted from the list and the database Computers table.Success message should be displayed.

Functionality: Filter Computer

Scenario 1: Verify that a Computer can be searched using the "Filter by name" filter.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter an existing Computer Name into the Filter text field	Values should be successfully entered
Click on the "Filter by name" button	Computer should be filtered and displayed successfully.

Scenario 2: Verify that the filter can be reset.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Enter an existing Computer Name into the Filter text field	Values should be successfully entered
Click on the "Filter by name" button	Computer should be filtered and displayed successfully.
Click on the cross icon button in the filter text box	Field should be successfully emptied
Click again on the "Filter by name" button	Filter should be removed and the list should be displayed without filtration.

Scenario 3: Verify that a filtered Computer can be Viewed.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.

Enter an existing Computer Name into the Filter text field	Values should be successfully entered
Click on the "Filter by name" button	Computer should be filtered and displayed successfully.
Click on the Computer name link	Edit Computer page should be displayed with correct entered data for the fields Computer name, Introduced, discontinued and Company.

Cross Browser Tests

Scenario 1: Verify that the application Homepage UI is properly displayed on all browsers.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers from the required browser	Computer Database application homepage should be displayed properly.

Scenario 2: Verify that the Add new Computer UI is properly displayed on all browsers.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers from the required browser	Computer Database application homepage should be displayed properly.
Click on the "Add a new Computer" button	Add a new computer UI should be displayed properly.

Scenario 3: Verify that the Edit Computer UI is properly displayed on all browsers.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers from the required browser	Computer Database application homepage should be displayed properly.
Click on a Computer name	Edit computer UI should be displayed properly.

UI and Navigation Tests

Scenario 1: Verify that columns can be sorted by clicking on the sort arrow.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the filter arrow of the columns	Should be able to sort

Scenario 2: Verify that clicking on Next displays the next list page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Next button	Next list page should be loaded.

Scenario 3: Verify that clicking on Previous displays the previous list page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Previous button	Previous list page should be loaded.

Scenario 4: Verify that all the button names are correct.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Observe the button names	All button names should be correct.
Click on a computer	Edit computer page should be displayed

Observe the button names	All button names should be correct.
Navigate to homepage by Canceling	Homepage should be displayed
Click on Add new computer	Add new computer page should be displayed.
Observe the button names	All button names should be correct.

Scenario 5: Verify that all the Label names are correct.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Observe the label names	All label names should be correct.
Click on a computer	Edit computer page should be displayed
Observe the label names	All label names should be correct.
Navigate to homepage by Canceling	Homepage should be displayed
Click on Add new computer	Add new computer page should be displayed.
Observe the label names	All label names should be correct.

Scenario 6: Verify that everything is properly aligned.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Observe the alignments	Everything should be aligned properly.
Click on a computer	Edit computer page should be displayed
Observe the alignments	Everything should be aligned properly.
Navigate to homepage by Canceling	Homepage should be displayed
Click on Add new computer	Add new computer page should be displayed.
Observe the alignments	Everything should be aligned properly.

Scenario 7: Verify that the "Add a new computer" button is available on the home page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Observe the buttons	Add new computer button should be available.

Scenario 8: Verify that the "Save this computer" button is displayed on the Add new computer page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Add new computer button	Save this computer button should be available.

Scenario 9: Verify that the "Cancel" button is displayed on the Add new computer page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on the Add new computer button	Cancel button should be available.

Scenario 10: Verify that the "Save this computer" button is displayed on the Edit computer page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a computer name	Edit computer page should be displayed. Save this computer button should be available.

Scenario 11: Verify that the "Cancel" button is displayed on the Edit computer page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a computer name	Edit computer page should be displayed. Cancel button should be available.

Scenario 12: Verify that the "Delete" button is displayed on the Edit computer page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on a computer name	Edit computer page should be displayed. Delete button should be available.

Scenario 13: Verify that the "Filter by name" button is available on the home page.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.Filter by computer button should be available.

Scenario 14: Verify that clicking on the "Computer Database" title opens up the homepage.

Steps	Expected Results
Open the app through https://computer-database.gatling.io/computers	Computer Database application homepage should be displayed.
Click on Computer Database title link and open in new tab	Application homepage should be displayed when clicked on the Computer database title link.