

S.No	Test Summary	Pre-requisites	Test Steps	Expected Result
Generic Test cases				
1	Verify the UI of the landing page	Computer database is populated with the data	1. Open URL - http://computer-database.herokuapp.com/computers	Play sample database application should open and following should be displayed: 1. Title 'Play sample application — Computer database' with hyperlink 2. Available computers in the database below title 3. Search field with 'Filter by Computer name' as helping text 4. 'Filter By name' button besides search field 5. 'Add a new computer' button 6. Computer information in tabular form (Computer name, Introduced, Discontinued, Company) 7. Previous and Next buttons below table 8. Text field showing 'Displaying <x> to <x+9> of <total computers>' data
2	Verify to click on 'Play sample application — Computer database' link	Computer database is populated with the data	Click on 'Play sample application — Computer database' link	User should be redirected to the home page and list of first 10 computer entries should be displayed
3	Verify that 'Previous' button is disabled when user is on the first page of computer table	Computer database is populated with the data and user is on the first page of computer table	Verify state of 'Previous' button	'Previous' button should be disabled
4	Verify that 'Next' button is disabled when user is on the last page of computer table	Computer database is populated with the data and user is on the last page of computer table	Verify state of 'Next' button	'Next' button should be disabled
5	Verify to click on 'Previous' button	1. Computer database is populated with more than 10 computers 2. User is on not on last page of computer table	Click on 'Next' button	User should navigate to next page and next 10 entries (or remaining entries if remaining computers are less than 10) should be displayed
6	Verify to click on 'Next' button	1. Computer database is populated with more than 10 computers 2. User is on not on last page of computer table	Click on 'Next' button	User should navigate to next page and next 10 entries (or remaining entries if remaining computers are less than 10) should be displayed
7	Verify sorting according to 'Computer name', 'Introduced', 'Discontinued' and 'Company' columns	More than one computer entries are present in the database and are displayed in the table	1. Click on 'Computer name' column 2. Click on 'Introduced' column 3. Click on 'Discontinued' column 4. Click on 'Company' column	Rows in the table should be sorted according to the column clicked for eg. If 'Computer name' is clicked, rows should be sorted according to computer names

Filter by name functionality				
1	Verify to click on 'Filter by name' button without entering anything to search when first page is opened	1. Computer database is populated 2. First page is displayed	1. Do not enter anything in the search field 2. Click on 'Filter by name' button	Nothing should be filtered out and list of first 10 (if more than 10 computers are available) computers should be displayed
2	Verify to click on 'Filter by name' button without entering anything to search when page other than first page is opened	1. Computer database is populated 2. Page other than first page is displayed	1. Do not enter anything in the search field 2. Click on 'Filter by name' button	Nothing should be filtered out and list of first 10 computers should be displayed

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3	Verify to filter computers on the basis of the entered string	Computer database is populated	1. Enter the string in the field to filter details (say 'Test') 2. Click on 'Filter by name' button	1. All computers having name that contains the entered string should be displayed (As per test data, all computers containing 'test' string in the name should be retrieved) 2. Computer count with 'Next' and 'Previous' buttons should be displayed
4	Verify the message that is displayed when computer with entered name does not exist in the database	Computer database is populated	1. Enter the string in the field to filter details (say 'Testtesttest' which is not in the database) 2. Click on 'Filter by name' button	Message 'Nothing to display' should be displayed
5	Verify to enter very long string to search	Computer database is populated	1. Enter the string in the field to filter details (say a string of around 500 characters) 2. Click on 'Filter by name' button	Computer details should be retrieved if string matches with the computer name

Add new computer functionality				
1	Verify to click on 'Add a new computer' button	Computer database application is opened	Click on 'Add a new computer' button	'Add a computer' page should open and following should be displayed: 1. 'Play sample application — Computer database' link on the top 2. 'Add a computer' text 3. 'Computer name', 'Introduced date' and 'Discontinued date' as editable fields 4. 'Company' as dropdown field 5. 'Create this computer' button 6. 'Cancel' button
2	Verify to click on 'Cancel' button	'Add a computer' page is opened	Click on 'Cancel' button	User should be redirected to the home page
3	Verify to click on 'Play sample application — Computer database' link	'Add a computer' page is opened	Click on 'Play sample application — Computer database' link	User should be redirected to the home page
4	Verify to click on 'Create this computer' button without entering any details in the available fields	'Add a computer' page is opened	Click on 'Create this computer' button	Computer name field should get highlighted in red to show warning that computer name is required
5	Verify that hints for correct date format is available besides the date field	'Add a computer' page is opened	Verify the hints for correct date format besides 'Introduced date' and 'Discontinued date' fields	Hint 'Date ('yyyy-MM-dd')' should be displayed
6	Verify to enter invalid date in 'Introduced date' and 'Discontinued date' field	'Add a computer' page is opened	1. Enter computer name 2. Enter invalid date in 'Introduced date' and 'Discontinued date' fields (say 'abcd')	'Introduced date' and 'Discontinued date' fields should get highlighted in red to show warning that date should be in correct format
7	Verify to create computer by only entering computer name	'Add a computer' page is opened	1. Enter computer name (say 'test1') and do not enter anything in rest of the fields 2. Click on 'Create this computer' button	Computer should get created and following should happen: 1. User should be redirected to the home page 2. Message 'Done! Computer test1 has been created' should be displayed 3. Total number of computers should get increased by 1 on home page

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8	Verify to create computer by adding all the details	'Add a computer' page is opened	1. Enter computer name (say test2), introduced date (say 2017-01-01) and discontinued date (2018-01-01) in their respective fields in correct format 2. Choose company name from the dropdown (say IBM) 3. Click on 'Create this computer' button	Computer should get created and following should happen: 1. User should be redirected to the home page 2. Message 'Done! Computer test2 has been created' should be displayed 3. Total number of computers should get increased by 1 on home page
9	Verify to search the added computer by entering the computer name in the 'Filter by computer name' field on the home page	New computer (say test1) is added using 'Add a new computer' functionality	1. Enter name 'test1' in 'Filter by computer name' field 2. Click on 'Filter by name' button	Details of computer 'test1' should be retrieved in the table
10	Verify that details of the added computer should be displayed when that computer name is clicked in the table	1. New computer (say test1) is added using 'Add a new computer' functionality 2. 'test1' is displayed inside the table	Click on 'test1'	'Edit computer' page should open and details entered while adding the computer should be displayed
11	Verify to add duplicate computer	1. Computer with name say 'test1' already exists 2. 'Add a computer' page is opened	1. Enter computer name 'test1' and enter other details same as already existing computer 2. Click on 'Create this computer' button	Computer should be successfully created

Edit computer functionality				
1	Verify to click on computer name in the table	Computer database is populated	Click on any computer name under 'Computer name' column	'Edit computer' page should open and following should be displayed: 1. 'Play sample application — Computer database' link on the top 2. 'Edit computer' text 3. 'Delete this computer' button 4. 'Computer name', 'Introduced date' and 'Discontinued date' as editable fields 5. 'Company' as dropdown field 6. 'Save this computer' button 7. 'Cancel' button
2	Verify that 'Computer name', 'Introduced date', 'Discontinued date' and 'Company' should be prefilled with data shown in the table	1. Computer database is populated 2. Home page is opened	1. Note the details for a computer under 'Computer name', 'Introduced date', 'Discontinued date' and 'Company' columns 2. Click on the computer name 3. Verify the details on the 'Edit computer' page	'Computer name', 'Introduced date', 'Discontinued date' and 'Company' fields should be prefilled with the ame details as available in the table
3	Verify to edit the computer details	'Edit computer' page is opened	1. Edit details under 'Computer name', 'Introduced date', 'Discontinued date' and 'Company' fields 2. Click on 'Save this computer'	Edited details should get saved and following should happen: 1. User should be redirected to the home page 2. Message 'Done! Computer <updated computer name> has been updated' should be displayed
4	Verify that edited details are displayed in the table for that computer name	1. Details are edited for a computer (say test1 i.e. name of test1 is changed to test11) 2. Search for the computer	Verify the details of 'test1'	Computer 'test1' should be updated to 'test11' (Same for other fields)

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5	Verify to delete a computer	Computer database is populated	1. Open computer details by clicking on computer name inside the table 2. Click on 'Delete this computer'	Computer should get deleted and following should happen: 1. User should be redirected to the home page 2. Message 'Done! Computer has been deleted' should be displayed 3. Total count of computers should get decreased
6	Verify to click on 'Cancel' button	'Edit computer' page is opened	Click on 'Cancel' button	User should be redirected to the home page
7	Verify to click on 'Play sample application — Computer database' link	'Edit computer' page is opened	Click on 'Play sample application — Computer database' link	User should be redirected to the home page