Test case ID	Test case description	Steps	Expected Output	Automated ?
	UI Verification Scenarios			
TC1	Verify navigation to 'Computer database' application	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
TC2	Verify the contents on 'Computer database' home page - UI verification	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Verify the presence of the following components / entities in the home page: - 'Filter by computer name' search field - 'Filter by name' button - 'Add a new computer' button - 'Total number of computers found' header text - 'Play sample application - computer database' header link - Computer table and contents - Computer name, Introduced, Discontinued, Company - Pagination text with 'previous' and 'next' links	The presence of the listed UI components / entities in the home page has been verified.	
TC3	Verify the contents on 'Add a computer' page - UI verification	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2.Click on 'Add a new computer' button	Add a computer' page is displayed	
		3. Verify the presence of the following components / entities in the 'Add a computer page' page: - 'Computer name' text field - 'Introduced date' text field - 'Discontinued date' text field - 'Company' dropdown list field with a list of companies - 'Create this computer' button - 'Cancel' button - 'Add a computer' header text	The presence of the listed UI components / entities in the 'add a computer' page has been verified.	
TC4	Verify the contents on 'Edit computer' page - UI verification	Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Computer 'A' record is displayed in the home page	
		3 Click on the Computer displayed	Edit computer' page is displayed	
		3. Verify the presence of the following components / entities in the 'Add a computer page' page: - 'Computer name' text field - 'Introduced date' text field - 'Discontinued date' text field - 'Company' dropdown list field with a list of companies - 'Save this computer' button - 'Cancel' button - 'Edit computer' header text - 'Delete this computer' button	The presence of the listed UI components / entities in the 'Edit computer' page has been verified.	
	Field validation Scenarios			

TC5	Add a computer' page field validations for Computer name - Allowable characters	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. Add a computer where 'Computer name' field takes in numeric input value. Eg. - '123456789'	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer 123456789 has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
		4. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		5. Add a computer where 'Computer name' field takes in alphabetical input value. Eg. - 'ABCD'	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer ABCD has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
		6. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		7. Add a computer where 'Computer name' field takes in alphanumeric input value. Eg. - 'ABCD1234'	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer ABCD1234 has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
		8. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		9. Add a computer where 'Computer name' field takes in special characters as input value. Eg. - '@#$%^&*()~'	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer @#$%^&*()~ has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
TC6	Add a computer' page field validations for Introduced date / Discontinued date - Allowable characters	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. Add a computer where 'Introduced date' field takes in a valid date value of the format 'yyyy-MM-dd'. Eg. - '2020-01-01'. Note: Computer name is a required field and has a value 'A'.	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer A has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
		4. Add a computer where 'Introduced date' field takes in an invalid date value. Eg. - '0000-01-01'. Note: Computer name is a required field and has a value 'A'.	User is unable to create a new computer. 'Introduced date' field is highlighted in red.	
		5. Add a computer where 'Discontinued date' field takes in a valid date value of the format 'yyyy-MM-dd'. Eg. - '2020-01-01'. Note: Computer name is a required field and has a value 'A'.	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer A has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
		6. Add a computer where 'Discontinued date' field takes in an invalid date value. Eg. - '0000-01-01'. Note: Computer name is a required field and has a value 'A'.	User is unable to create a new computer. 'Introduced date' field is highlighted in red.	
TC7	Verify if 'Company' dropdown list contains expected values for company names - Add a computer page	Preconditions: - Access to desktop browser - E.g. Chrome		No

		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. Click on the 'Company' dropdown list, and verify if the company list is visible and accurate	Verified that the company list is visible and accurate	
TC8	Required field validation - 'Add a computer' page	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. In the 'Add a computer' page, enter all the fields except 'Computer name', and click on 'Create this computer' button.	User is unable to create a new computer. 'Computer name' field is highlighted in red.	
		3. In the 'Add a computer' page, do not enter values for fields except 'Computer name'. E.g - 'A', and click on 'Create this computer' button.	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer A has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
TC9	Edit computer' page field validations for Computer name - Allowable characters	Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Edit computer' page is displayed	
		3. Edit Computer 'A' with a valid numeric input value for 'Computer name'. Eg. - '12341234'	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer 12341234 has been updated'.	
		4. Search for the existing computer using the 'Filter by name' search feature	Edit computer' page is displayed	
		5. Edit Computer 'A' with a valid alphabetical input value for 'Computer name'. Eg. - 'AAAAAAAA'	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer AAAAAAAA has been updated'.	
		2. Search for the existing computer using the 'Filter by name' search feature	Edit computer' page is displayed	
		6. Edit Computer 'A' with a valid alphanumeric input value for 'Computer name'. Eg. - 'AAAA1111'	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer AAAA1111 has been updated'.	
		7. Search for the existing computer using the 'Filter by name' search feature	Edit computer' page is displayed	
		8. Edit Computer 'A' with a special characters for 'Computer name'. Eg. - '@#$%^&*()~'	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer @#$%^&*()~ has been updated'.	
TC10	Edit computer' page field validations for Introduced date / Discontinued date - Allowable characters	Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Edit computer' page is displayed	
		3. Edit the computer where 'Introduced date' field takes in a valid date value of the format 'yyyy-MM-dd'. Eg. - '2020-01-01'. Note: Computer name is a required field and has a value 'A'.	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer A has been updated'.	

		4. Edit the computer where 'Introduced date' field takes in an invalid date value. Eg. - '0000-01-01'. Note: Computer name is a required field and has a value 'A'.	User is unable to create a new computer. 'Introduced date' field is highlighted in red.	
		3. Edit the computer where 'Discontinued date' field takes in a valid date value of the format 'yyyy-MM-dd'. Eg. - '2020-01-01'. Note: Computer name is a required field and has a value 'A'.	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer A has been updated'.	
		4. Edit the computer where 'Discontinued date' field takes in an invalid date value. Eg. - '0000-01-01'. Note: Computer name is a required field and has a value 'A'.	User is unable to create a new computer. 'Introduced date' field is highlighted in red.	
TC11	Verify if 'Company' dropdown list contains expected values for company names - Edit computer page	Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists		No
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Edit computer' page is displayed	
		3. Click on the 'Company' dropdown list, and verify if the company list is visible and accurate	Verified that the company list is visible and accurate	
TC12	Required field validation - 'Edit computer' page	Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Edit computer' page is displayed	
		3. In the 'Edit computer' page, enter all the fields except 'Computer name', and click on 'Save this computer' button.	User is unable to save the computer. 'Computer name' field is highlighted in red.	
		3. In the 'Edit computer' page, do not enter values for fields except 'Computer name'. E.g - 'B', and click on 'Save this computer' button.	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer B has been updated'.	
	Core Functional Scenarios			
TC13	Add a new computer	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. Enter valid values for the following fields: Computer name, Introduced date, Discontinued date, Company, and click on 'Create this computer' button. Note: Name of the new computer will be 'A' in this case.	A new computer is successfully created, and the home page is displayed with the following success message: 'Done! Computer A has been created'. Verified that the home page contains record for the newly created computer with accurate values for the fields: Computer name, Introduced, Discontinued, Company.	
TC14	Cancel add computer	Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Click on 'Add a new Computer' button on the home page	Add a computer' page is displayed	
		3. Click on 'Cancel' button	Computer database home page is displayed.	
TC15	Verify total number of computers	Preconditions: - Access to desktop browser - E.g. Chrome		No

		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Get the total computers found value from the home page title, and verify if the value matches with the number of computers listed on the home page	Verified that the total computers found value is accurate	
TC16	Search / Filter computer by valid Computer name	"Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists"		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Enter an existing computer. E.g - 'A' in the 'Filter by computer name' text field. Click on 'Filter by name' button	Computer 'A' record is displayed in the home page	
TC17	Search / Filter computer by invalid Computer name	"Preconditions: - Access to desktop browser - E.g. Chrome		Yes
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Enter an invalid computer name that does not exist in the computer database in the 'Filter by computer name' text field. Click on 'Filter by name' button	No record is displayed and 'Nothing to display' message is shown in the home page	
TC18	Edit a computer	"Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists"		
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Computer 'A' record is displayed in the home page	
		3 Click on the Computer displayed	Edit computer' page is displayed	
		4. Clear existing data, and enter valid values for the following fields: - Computer name. Eg. - 'B' - Introduced date. Eg. - '2020-02-01' - Discontinued date. Eg. - '2021-02-01' - Company. Eg. - 'Apple Inc'	Computer 'A' is successfully updated, and the home page is displayed with the following success message: 'Done! Computer B has been updated'.	
TC19	Delete an existing computer	"Preconditions: - Access to desktop browser - E.g. Chrome - Computer 'A' already exists"		
		1. Open the browser window, and navigate to 'Computer database' home page via the following URL: 'http://computer-database.herokuapp.com/computers'	Computer database' home page is displayed	
		2. Search for an existing computer 'A' using the 'Filter by name' search feature	Computer 'A' record is displayed in the home page	
		3 Click on the Computer displayed	Edit computer' page is displayed	
		4. Click on 'Delete this computer' button	Computer 'A' is successfully deleted, and 'Done ! Computer A has been deleted' message is displayed in the home page	
	Author: Kamalesh Pagadala			