

Manual Testcases

ID	Automated	Title	Flow	Pre-conditions	Steps	Expected result
TC1	Yes	Display the Computer Database homepage	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers	Computer database homepage displayed within the web browser
TC2.1	Yes	Add a new computer to the computer database by only entering data in the required fields	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'computer name' input 5. Click on 'Create this computer' button	Confirmation message will display: "Done! Computer MyComputer has been created" at the top of the page.
TC2.2	Yes	Add a new computer, not entering a computer name	Non-happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Click on 'Create this computer' button	Validation message will display: "Required" to the right of the computer name field
TC2.3	Yes	Cancel adding a new computer to the computer database	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Click on 'Cancel' button	Computer database homepage displayed within the web browser
TC2.4	Yes	Add a new computer to the computer database supplying a valid introduced date	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'Computer name' input field 5. Input "2017-01-01" in the 'Introduced date' input field 6. Click on 'Create this computer' button	Confirmation message will display: "Done! Computer MyComputer has been created" at the top of the page.
TC2.5	Yes	Add a new computer to the computer database supplying an invalid introduced date	Non-happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'Computer name' input field 5. Input "2017-21-33" in the 'Introduced date' input field 6. Click on 'Create this computer' button	Validation message will display: "Date ('yyyy-MM-dd')" to the right of the Introduced date field
TC2.6	Yes	Add a new computer to the computer database supplying a valid Discontinued date	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'Computer name' input field 5. Input "2018-03-04" in the 'Discontinued date' input field 6. Click on 'Create this computer' button	Confirmation message will display: "Done! Computer MyComputer has been created" at the top of the page.
TC2.7	Yes	Add a new computer to the computer database supplying an invalid Discontinued date	Non-happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'Computer name' input field 5. Input "2018-21-33" in the 'Discontinued date' input field 6. Click on 'Create this computer' button	Validation message will display: "Date ('yyyy-MM-dd')" to the right of the Discontinued date field
TC2.8	Yes	Add a new computer to the computer database selecting a Company	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "MyComputer" in the 'Computer name' input field 5. Select "Apple Inc." from the 'Company' select list field 6. Click on 'Create this computer' button	Confirmation message will display: "Done! Computer TestComputer has been created" at the top of the page
TC2.9	Yes	Add a new computer to the computer database supplying all fields	Happy flow	The Computer Database website in the browser	1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button 4. Input "TestComputerAllFields" in the 'computer name' input field 5. Input "2017-03-04" in the 'Introduced date' input field 6. Input "2018-03-04" in the 'Discontinued date' input field 7. Select "Apple Inc." from the 'Company' select list field 8. Click on 'Create this computer' button	Confirmation message will display: "Done! Computer TestComputerAllFields has been created" at the top of the page

ID	Automated	Title	Flow	Pre-conditions	Steps	Expected result
TC3	Yes	View a computer in the computer database		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "TestComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 	Computer name field value will display "TestComputer"
TC4.1	Yes	Update a computer name in the computer database		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 4. Input "MyComputer" in the 'Filter by computer name' input field 5. Click on 'Filter by name' button 6. Click on the first computer name in the table which displays a list of added computers 7. Amend the 'computer name' input field value and add "123" at the end 7. Click on 'Save this computer' button 	Confirmation message will display: "Done! TestComputer123 has been updated" at the top of the page
TC4.2	Yes	Display error message when updating a computer name in the computer database and not providing a computer name		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Remove all text from the 'computer name' input field 7. Click on 'Save this computer' button 	Validation message will display: "Required" to the right of the computer name field
TC4.3	Yes	Cancel updating a computer name		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "TestComputer123" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Click on 'Cancel' button 	Computer database homepage displayed within the web browser
TC4.4	Yes	Update a computer in the computer database supplying a valid introduced date		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyFilterComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Input "2017-03-04" in the 'Introduced date' input field 7. Click on 'Save this computer' button 	Confirmation message will display: "Done! Computer MyFilterComputer has been updated" at the top of the page
TC4.5	Yes	Update a computer in the computer database supplying an invalid introduced date		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "TestComputer123" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Input "2017-13-32" in the 'Introduced date' input field 7. Click on 'Save this computer' button 	Validation message 1 display: "Date ('yyyy-MM-dd')" to the right of the Introduced date field
TC4.6	Yes	Update a computer in the computer database supplying a valid Discontinued date		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Input "2018-03-04" in the 'Discontinued date' input field 7. Click on 'Save this computer' button 	Confirmation message will display: "Done! Computer MyFilterComputer has been updated" at the top of the page
TC4.7	Yes	Update a computer in the computer database supplying an invalid Discontinued date		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyFilterComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Input "2018-13-32" in the 'Discontinued date' input field 7. Click on 'Save this computer' button 	Validation message will display: "Date ('yyyy-MM-dd')" to the right of the Discontinued date field

ID	Automated	Title	Flow	Pre-conditions	Steps	Expected result
TC4.8	Yes	Update a computer in the computer database selecting a Company		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyFilterComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 5. Click on the first computer name in the table which displays a list of added computers 6. Select 'Apple Inc.' from the 'Company' select list field 7. Click on 'Save this computer' button 	Confirmation message will display: "Done! Computer MyFilterComputer has been updated" at the top of the page
TC4.9	Yes	Update a computer in the computer database supplying all fields		The Computer Database website in the browser	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Add a new computer' button in the top right hand corner of the screen 4. Input "MyUpdateComputer" in the 'computer name' input field 5. Input "2017-03-04" in the 'Introduced date' input field 6. Input "2018-03-04" in the 'Discontinued date' input field 7. Select "Apple Inc." from the 'Company' select list field 8. Click on 'Save this computer' button in the bottom left hand corner of the screen 	Confirmation message will display: "Done! Computer MyUpdateComputer has been updated" at the top of the page
TC5	Yes	Delete a computer in the computer database		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyUpdateComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button in the top left hand corner of the screen 5. Click on the first computer name in the table which displays a list of added computers 6. Click on 'Delete this computer' button 	Confirmation message will display: "Done! Computer has been deleted" at the top of the page
TC6	Yes	Filter computer results displayed on the computer database homepage		TC2.1 must be run to add a computer	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Input "MyFilterComputer" in the 'Filter by computer name' input field 4. Click on 'Filter by name' button 	"MyFilterComputer" will be displayed within a table of filtered computers where the 'computer name' matched "MyFilterComputer"
TC7	No	Sort computer results by 'computer name' in descending order on the computer database homepage		The Computer Database website in the browser and at least two computers with different 'computer name' must exist in the computers database	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Computer name' table heading in the computers table 	Computers will be displayed within a table of computers in descending order
TC8	Yes	Page through computer results displayed on the computer database homepage		The Computer Database website in the browser and at least 11 computers must exist in the computers database	<ol style="list-style-type: none"> 1. Open Chrome 2. Navigate to http://computer-database.herokuapp.com/computers 3. Click on 'Next' button 	Computer results table will display the next ten computer results from the computer database

Non Functional tests

ID	Title	Checks	Expected result
TC-NF1	Keyboard use	Check if everything on the Computer Database homepage can be reach by using the keyboard.	The homepage can be used by using a keyboard
TC-NF2	Lighthouse	npm run test:lighthouse Analyse the lighthouse report	No big issues/errors in the lighthouse report
TC-NF3	Artillery	npm run test:artillery Analyse the Artillery outcome	No big spikes in the load test times.
TC-NF4	W3C validator	npm run test:validate-html Analyse the results	No errors, all the warnings must be evaluated and discussed.
TC-NF5	Cross Site Scripting	In the input fields (add computer and filter computer) try: <script>alert('I am a hacker');</script>	No popup with 'I am a hacker' is shown.