**Manual test cases for computer database application:**

Note: The test cases are divided based on CRUD operations. Edge cases are highlighted in the test description.

1. **Test cases for add/create a computer:**

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| Test Case ID# | Test Case Description | Pre-conditions | Steps | Expected Result |
| TC#001 | Verify if the user is able to add a computer | 1. Add computer button is active/clickable on the Homepage. 2. Clicking on “Add a computer” button navigates to Add a computer page. | 1. On the new page, enter computer name as a set of alphanumeric characters. 2. Enter Introduced date in the “yyyy-mm-dd” format, where date is less than or equal to the current date. 3. Enter Discontinued date in the “yyyy-mm-dd” format where date is less than or equal to the current date. 4. Select a company from the drop-down list. 5. Click on “Create this computer” button. | 1. Computer successfully added/created. 2. The computer details should be found in the list of computers displayed on the Homepage. 3. The total count of computers displayed on the homepage should be incremented by 1. |
| TC#002 | Verify if the user is able to add a computer with all the fields (Required/optional) left blank | Navigate to “Add a computer” page | 1. Do not enter any value for computer name, introduced and discontinued date. 2. Do not select any company from the drop-down. 3. Click on “Create this computer” button. | 1. Required or fields marked with \* must be highlighted. 2. Computer is not added with null values. |
| TC#003 | Verify if a user is able to add a computer with “Introduced date” set to a future date **(Edge case)** | 1. Navigate to “Add a computer” page. 2. Enter computer name. | 1. Enter introduced date as a future date in the format “yyyy-mm-dd” 2. Click on “Create this computer” | 1. Error displayed indicating date is invalid. 2. Highlight the “Introduced date” field for user to understand. |
| TC#004 | Verify if a user is able to add a computer with “Discontinued date” set to a future date **(Edge case)** | 1. Navigate to “Add a computer” page. 2. Enter computer name. | 1. Enter “Introduced date” in the format “yyyy-mm-dd” less than or equal to the current date. 2. Enter “Discontinued date” with a future date. 3. Click on “Create this computer” 4. Repeat steps 1-3 with “Introduced date” set to a future date. | 1. Error displayed indicating date is invalid. 2. Highlight the respective field for user to understand. |
| TC#005 | Verify if a user is able to add a computer with an Invalid date | 1. Navigate to “Add a computer” page. 2. Enter computer name. | 1. Enter incorrect year/days /month combination for “Introduced date”.   Example:  9000-05-24  2019-15-35  -2019-01-01   1. Click on “Create this computer” 2. Repeat steps 1-3 for “Discontinued date” | 1. Error displayed indicating date is invalid. 2. Highlight the respective field for user to understand. |
| TC#006 | Verify if the user can add/save details with discontinued date less than or equal to introduced date **(Edge Case)** | 1. Navigate to “Add a computer” page. 2. Enter computer name as set of alphanumeric characters. | 1. Enter “Introduced date” in the format “yyyy-mm-dd” less than or equal to the current date. 2. Enter “Discontinued date” in the format “yyyy-mm-dd” less than or equal to introduced date. 3. Click on “Create this computer” | 1. Error displayed with message indicating Discontinued date must be greater than Introduced date. 2. Highlight the respective fields for user to understand. |
| TC#007 | Verify if the user is able to cancel the request for adding a computer | Navigate to “Add a computer” page. | 1. Enter computer name as a set of alphanumeric characters. 2. Enter Introduced date in the “yyyy-mm-dd” format, where date is less than or equal to the current date. 3. Enter Discontinued date in the “yyyy-mm-dd” format where date is less than or equal to the current date. 4. Select a company from the drop-down list. 5. Click on Cancel button. | 1. The computer details are not added. 2. Navigates back to the homepage or display appropriate message to the user. |
| TC#008 | Verify if the user can add a computer with name NOT as alphanumeric characters **(Edge case)** | Navigate to “Add a computer” page. | 1. Enter computer name as a set of invalid or junk characters like !~\*)@#$#@+ 2. Click on “Create this computer” 3. Repeat 1-2 with different possible length of characters including integers, date etc. | 1. Error is displayed for invalid name. 2. Computer name field is highlighted for user to understand. |
| TC#009 | Verify if the user can add multiple computers with same details (Duplicates) | Navigate to “Add a computer” page. | 1. Enter computer name as a set of alphanumeric characters. 2. Enter Introduced date in the “yyyy-mm-dd” format, where date is less than or equal to the current date. 3. Enter Discontinued date in the “yyyy-mm-dd” format where date is less than or equal to the current date. 4. Select a company from the drop-down list. 5. Click on “Create this computer” button. 6. Repeat steps 1-6 with the same data. | 1. Error displayed for duplicate data. |

1. **Test cases for edit computer details:**

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| Test Case ID# | Test Case Description | Pre-conditions | Steps | Expected Result |
| TC#010 | Verify if the user can edit and save the computer details | 1. Computers are already added and displayed as a list on home page. 2. Select a computer and click on computer name | 1. On the edit page, edit computer name as a set of alphanumeric characters. 2. If not already added, enter Introduced date in the “yyyy-mm-dd” format, where date is less than or equal to the current date. 3. If not already added, enter Discontinued date in the “yyyy-mm-dd” format where date is less than or equal to the current date. 4. If not selected, select a company from the drop-down list. 5. Click on “Save this computer” button. | 1. Computer successfully edited. 2. The new details should be updated in the list of computers displayed on the Homepage. |
| TC#011 | Verify if the user is able to edit a computer with all the fields (Required/optional) left blank | Select a computer and click on computer name | 1. Delete details for computer name, introduced and discontinued date. 2. Do not select any company from the drop-down. 3. Click on Save this computer button. | 1. Required or fields marked with \* must be highlighted. 2. Computer is not updated with null values. |
| TC#012 | Verify if a user is able to edit a computer with “Introduced date” set to a future date **(Edge case)** | Select a computer from the list and click on computer name | 1. Edit introduced date as a future date in the format “yyyy-mm-dd” 2. Click on “Save this computer” | 1. Error displayed indicating date is invalid. 2. Highlight the “Introduced date” field for user to understand. |
| TC#013 | Verify if a user is able to edit a computer with “Discontinued date” set to a future date **(Edge case)** | Select a computer from the list and click on computer name | 1. Edit “Discontinued date” with a future date. 2. Click on “Save this computer” 3. Repeat steps 1-3 with “Introduced date” set to a future date. | 1. Error displayed indicating date is invalid. 2. Highlight the respective field for user to understand. |
| TC#014 | Verify if a user is able to edit a computer with an Invalid date | Select a computer from the list and click on computer name | 1. Enter incorrect year/days /month combination for “Introduced date”.   Example:  9000-05-24  2019-15-35  -2019-01-01   1. Click on “Save this computer” 2. Repeat steps 1-3 for “Discontinued date” | 1. Error displayed indicating date is invalid. 2. Highlight the respective field for user to understand. |
| TC#015 | Verify if the user is able to cancel the request for editing a computer | Select a computer from the list and click on computer name | 1. Edit computer name as a set of alphanumeric characters. 2. Edit Introduced and Discontinued date in the “yyyy-mm-dd” format, where date is less than or equal to the current date. 3. Select a different company from the drop-down list. 4. Click on Cancel button. | 1. The computer details are not updated. 2. Navigates back to the homepage or display appropriate message to the user. |
| TC#016 | Verify if the user can edit a computer with name NOT as alphanumeric characters **(Edge case)** | Select a computer from the list and click on computer name | 1. Edit computer name as a set of invalid or junk characters like !~\*)@#$#@+ 2. Click on “Save this computer” 3. Repeat 1-2 with different possible characters including integers, date etc. | 1. Error is displayed to the user. 2. Computer name field is highlighted for user to understand. |
| TC#017 | Verify if the user can edit and save details with discontinued date less than or equal to introduced date **(Edge Case)** | Select a computer from the list and click on computer name | 1. Edit “Introduced date” in the format “yyyy-mm-dd” less than or equal to the current date. 2. Enter “Discontinued date” in the format “yyyy-mm-dd” less than or equal to introduced date. 3. Click on “Save this computer” | 1. Error displayed with message indicating Discontinued date must be greater than Introduced date. 2. Highlight the respective fields for user to understand. |

1. **Test cases for read and delete computer details:**

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| Test Case ID# | Test Case Description | Pre-conditions | Steps | Expected Result |
| TC#018 | Verify if the user is able to view computer details | 1. Add a computer (Reference TC#001) 2. Select a computer from the list and click on computer name | 1. On Edit Computer page check if all the details are correct | The computer details match with the details entered while creating a computer. |
| TC#019 | Verify computer details in the list displayed on home page | 1. Add a computer (Reference TC#001) | 1. Check if details for added computer is displayed in the list. 2. Reload/Refresh the home page 3. Navigate to add, edit page and back to home page. | The details listed should match the details entered while creating a computer. |
| TC#020 | Verify if a user can delete a computer | 1. Add a computer (Reference TC#001) 2. Select a computer from the list and click on computer name | 1. On the edit computer page, check if “Delete this computer” is active and clickable. 2. Click on “Delete this computer” button. | 1. The computer is deleted, and message is displayed to the user. 2. The computer is not available in the list displayed on homepage. 3. The total count of computers displayed on home page and page navigator is decremented by 1. 4. The computer name is not available in the filtered list on the home page |

1. **Test cases for Home page and other scenarios:**

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| Test Case ID# | Test Case Description | Pre-conditions | Steps | Expected Result |
| TC#021 | Verify of the user is able to access the URL http://computer-  database.herokuapp.com/computers | 1. Any browser EX: Chrome 2. Internet connection | 1. Copy the URL and paste in the browser | 1. The URL loads and the landing page is displayed 2. “Play Sample application – Computer database” title is displayed. |
| TC#022 | Verify if the user can filter computers by name | 1. Navigate to home/landing page 2. Computers are already added/created | 1. Enter alphanumeric name 2. Click on “Filter by name” 3. Repeat steps1-2 for special characters. | 1. List of computers matching the search text is filtered. 2. The count displayed (computers found) matches the filtered list |
| TC#023 | Verify if the user is able to sort (Ascending/Descending) computers based on computer name, date and company | 1. Navigate to home/landing page 2. Computers are already added/created | 1. Click on column header “Computer name” or the sorting arrow beside header name. 2. Repeat above step for all other columns like Introduced, Discontinued and Company | 1. Sorting works fine for all the columns. |
| TC#024 | Verify if the number of computers displayed on Home page is correct | 1. Navigate to home/landing page 2. Computers are already added/created | 1. Count the number of computers in the unfiltered list. | 1. The count should match the number displayed on the home page   Ex: 577 computers found |
| TC#025 | Verify if the user can navigate through the list of computers (page navigation) | 1. Navigate to home/landing page 2. Computers are already added/created 3. Number of computers added is greater than 10 | 1. Click on Next (At bottom right of the page) | The next set of 10 computers displayed. |
| TC#026 | Verify if the user can navigate back to home page after clicking “Play Sample application – Computer database” | Navigate to home/landing page | 1. Click on “Play Sample application – Computer database” 2. Navigate to Add a computer page and click on “Play Sample application – Computer database”. 3. Navigate to edit computer page and click on “Play Sample application – Computer database” | Redirected to homepage. |
| TC#027 | Verify the counts displayed for page navigation. | 1. Navigate to home/landing page 2. Computers are already added/created 3. Number of computers added is greater than 10 | 1. Verify the total count of computers and the numbers in the list.   Ex: Displaying 1 to 10 of 577   1. Click on Next. 2. Check if the count is correct.   Ex: Displaying 11 to 20 of 577   1. Click on “Previous” 2. Check if the count displayed is correct.   Ex: Displaying 1 to 10 of 577 | The count displayed is correct on home page, Next and Previous page |
| TC#028 | Verify data for create, edit and delete computer details from the database | Access to database and relevant tables | 1. Connect to database 2. Validate values in the tables match the actions for add, edit and delete. | Values match with user actions on the UI. |
| TC#029 | Test the application behaviour on different browsers | Browsers installed on the test system | 1. Execute workflows for add and edit computers. | Behaviour is same across browsers |

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of Test cases\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**Bug Report for Computer database application:**

1. Bug#001: User is able to add/edit a computer with an Invalid year in the date field

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| Summary:  User is able to add/edit a computer with incorrect year in the Introduced/Discontinued date such as 9000-05-25 or -2019-01-01. The valid introduced/discontinued year should be less than or equal to the current year 2019. The date must be in 'yyyy-MM-dd' format. |
| Steps to Reproduce:   1. Navigate to “Add a computer” page. 2. Enter computer name. 3. Enter Introduced date as 9000-05-25 or -2019-01-01. 4. Enter Discontinued date as 9000-05-25 or -2019-09-21. 5. Click on “Create this computer”. 6. Check if the computer is added in the list on the home page. 7. Click on computer name and navigate to edit computer page. 8. Repeat steps 2-4 and click on “Save this computer” button. |
| Expected Result:  Error message is displayed with an Invalid date/year. |
| Actual Result:  Computer is added successfully. |
| More Information:  Browser: Chrome  Severity: High  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  https://lh6.googleusercontent.com/a2MLxe3hrWvjg47Hy_dYH_505A8rhcPcN3aNa2xh8r0XNGIybzinc-4PG3oC0pTirHsDER5EzX6jrz6PYAQ8z9vw8Z5yjxdLejmlN28BVrPQbJIkMsR9n9ClYqcNdFT10X0zzd2b  https://lh4.googleusercontent.com/jv8E7B5r9KG2XvWVnLiO9xkTl6rmiNP8kc1rtWVJELMaze8pEWGez-3BlqeeEtqq8IxZG45l9-M0td-G1vZyIfQL-kG_tgOuuMs3OQ6seAxXfyJSEZVrk9RRIY3lrqRRtOUyDBjk  https://lh4.googleusercontent.com/iyWRYIK-A8ZDD9XGU8OgdLxI2RK2RqD4_fh0bMeB4wvWJWDJ-_D-wI5TiWL2EQjB9KmVgh5oBGhm7vFeKBQDynEuPmuKtVMcTSUA8JTSuit3xiZ-zscF3cAxiZrph6se94ThTvOd |

2.  Bug#002: User is able to add/edit a computer with date value set to a future date

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| Summary:  User is able to add/edit a computer with Introduced/Discontinued date set to a future date. The valid introduced/discontinued date should be less than or equal to the current date. |
| Steps to Reproduce:   1. Open URL http://computer-database.herokuapp.com/computers 2. On the home page, click on “Add a computer” button 3. Enter computer name as set of alphanumeric characters. 4. Enter Introduced date as 2020-05-29. 5. Enter Discontinued date as 2030-05-29. 6. Click on “Create this computer” 7. Check if the computer is added in the list on the home page. 8. Click on computer name and navigate to edit computer page. 9. Edit Introduced date as 2021-09-01 10. Edit Discontinued date as 2050-05-11 and click on “Save this computer” |
| Expected Result:   1. Error displayed indicating date/year is invalid. 2. Highlight the respective fields for user to understand. |
| Actual Result:  Computer details are added/updated successfully. |
| More Information:  Browser: Chrome  Severity: High  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  https://lh4.googleusercontent.com/omL779OME3xZPtRmIkg_zLxRY54tcBGUa7AFIvWXaludCMc5eZ5LF7IaqTNl3Zid6eIPQzEKoXS2IVnUJDMT1DwqLLPXT3DMO4DBu_r5Zi2sqyCO1K4y2R0_pTR9LNENPVwbHuwz  https://lh5.googleusercontent.com/fXUImI07yo_4fYRjjAnrqZwVohAwrzS8p3wjzzQ7fFYplHFtznm_GkG_VmRvGFO4uIM64rkMpOXnXGn4sOEWKBC5S_MQ2MfbCFIXxfSAKPmBO85OE3RE8zH3zavE6XMFyYhXoi5h  https://lh5.googleusercontent.com/O8ONNrM_cRAJJoC7XToMcjWA1mvYFawzA_Tmby0YD1MkONnWzlVFzwpaxMfqxE6IM_WgzN2pZ7_SXnov2HHXrOSQflQJoZePinc8iz7VU90SK0_XLIVAy7PguHrJolRi7V92d-r0 |

3.  Bug#003: User is able to add/edit computer details with discontinued date less than introduced date

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| Summary:  User can add/edit computer details with discontinued date set to a value less than introduced date. |
| Steps to Reproduce:   1. Open URL http://computer-database.herokuapp.com/computers 2. On the home page, click on “Add a computer” button 3. Enter computer name as set of alphanumeric characters. 4. Enter Introduced date as 2019-04-21. 5. Enter Discontinued date as 2019-01-01. 6. Click on “Create this computer” 7. Check if the computer is added in the list on the home page. 8. Click on computer name and navigate to edit computer page. 9. Edit Introduced date as 2018-09-01 10. Edit Discontinued date as 2018-02-11 and click on “Save this computer” |
| Expected Result:   1. Error displayed indicating discontinued date must be later than introduced date. 2. Highlight the respective fields for user to understand. |
| Actual Result:  Computer details are added/updated successfully. |
| More Information:  Browser: Chrome  Severity: High  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs: https://lh5.googleusercontent.com/Il1cUEB9Q22cRj10Z-oJTyIicBDZFh8pmcauwwu7k4cSCnraOvNB1jdi11ee56ToC_vNYso-OF9sBpO_tVYQD9FqUgiz5N1kmJ7o7dvRD-6DY4qFK9iJv5zYCF9S_66yTJumxJ8Z  https://lh5.googleusercontent.com/euHhb1PQn1eQ8JNWcWDH3snML4FNNNsRbhZ1ztEWf4fsweZPW9Ykddx9x0HzUKf1oF8fnb1mUd3oV4ZPTB40fcw96w3xb81wNRVto8L7uNbf48W-klAH2Pt9qQ_tDpk0bKtRsPIR  https://lh6.googleusercontent.com/vhSLHGJSxdMN5jXyelsWCSpANdiFBUXAKB0Lcho4dbSnrjM_wXHRHDZ3o3-G_OFJAjeZY4uKcIZv-IxsXuttpfNzbcvXEKOcnIL98VfwX1K3AmmNa2CJYu6sU4qrIePHJVDkXMgU |

4.  Bug#004: User is able to add a computer name with any number of characters including special characters

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| Summary:  No checks performed on the number and type of characters entered for computer name in a add/edit workflow. |
| Steps to Reproduce:   1. Open URL http://computer-database.herokuapp.com/computers 2. On the home page, click on “Add a computer” button 3. Enter computer name as set of special characters. Example: ~\*)@#$#@+ 4. Click on “Create this computer” 5. Check if the details are saved. 6. Repeat steps 1-5 with name set to different length of characters. Ex: Able to save name with 350 characters. |
| Expected Result:   1. Error displayed indicating computer name is invalid 2. Filed highlighted for user to understand |
| Actual Result:  Computer details are added/updated successfully. |
| More Information:  Browser: Chrome  Severity: Medium  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  https://lh3.googleusercontent.com/yux48X-O6MLNfWtIjwpT3Op8gvrxy8ZOEctPcnnOpL5N4V-X7OQhlG-m-i1uaWQPX5LsTDNbanEeVMwxex4uFQUzsvHvXHM0uLBDpP16M0IWN9JF8sOGyj6rNg4xLjcSqem4UwGg  https://lh6.googleusercontent.com/vsvKEhfghgPlxIVWqcQqNFMbyl03p2ca2MBZpfBl3yh99KdXoRpAY8erjI9auKPzpe3MZEM8ZItEUtMr5AQUggYK4OfryzI2a0ht3UhS2p9g_q1hNgd1SnBDHAklQcoYGTnqq0Fh  https://lh3.googleusercontent.com/yyaLwwTCI1dMOY7t7Z5pOgzQB7EEo_M-HUSTH76err4eXTLRpPz7VVt1kFaGBP9kt8idjPVJ2bWAdEilrp_RMCGsGu4Qjkxy2A4efvEruI5lxJEFKbbka8pVz_XhDNHqPXcRFFK-  https://lh3.googleusercontent.com/ufJicMsNUSVtENSegkx9B0T2CzsTAuQzshpf77Ig9402uIMQ4LPn7Qo3sQVwSH6jYx_vB4UysybuwoRr6w1n6hLkELFnCvfZFJyBQbO0n22WkSV5ZxBjra49HPd4w1DqKo3QIcxb |

5.  Bug#005: Year is incremented by 1 if user enters negative value in add/edit a computer

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| Summary:  The year is incremented by 1 if a negative year like -2019 is entered while adding or editing a computer. The value displayed in the list on the home page is incremented by 1 but on edit computer page it still displays the negative value. |
| Steps to Reproduce:   1. Open URL http://computer-database.herokuapp.com/computers 2. On the home page, click on “Add a computer” button 3. Enter computer name as set of alphanumeric characters. 4. Enter Introduced date as -2019-04-21. 5. Enter Discontinued date as -2019-05-01. 6. Click on “Create this computer” 7. Check if the computer is added in the list on the home page with year 2020 8. Click on computer name and navigate to edit computer page. 9. Edit Introduced date as -2018-09-01 10. Edit Discontinued date as -2018-02-11 and click on “Save this computer” |
| Expected Result:  Error displayed indicating invalid date/year |
| Actual Result:  Computer details are saved/updated with value set to year+1 |
| More Information:  Browser: Chrome  Severity: High  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  https://lh6.googleusercontent.com/ujzq3DSFwqnNS34sXquoKkBfJEqjYcSMZMK5IzyNaVAkHVySm7Gu4RJsuTZv1fh8SKVU_LRLF_qbHeDE9n4aGXTppo8GHBXPmkG9NEXTqL-WuvXKXcB-mS2mtzD48sz4oRICmHL1  https://lh5.googleusercontent.com/HF9xvEdXVzoqxRyZSfQhxh4HG9CHo8AInvOw4RTldz-nPH00lmSs5tg8WFMadJgJj48L-p9Kc_7L37FJF4ugBYs19bCLGqH_5w8HP7Jcyp7kImz0Eyrvnbb-8TOf0kmvXcc1_7nv |

6.  Bug#006: User is unable to sort (Ascending/Descending) based on name, date or company.

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| Summary:  User is unable to sort values based on name, date or company. The page is refreshed if any of the column header is clicked but the values are not sorted. The arrow indicating the ascending/descending values is non-functional. |
| Steps to Reproduce:   1. Open URL <http://computer-database.herokuapp.com/computers> 2. On the home page, click on the computer name header or arrow. 3. Check to see if the values are sorted. 4. Repeat for other columns Introduced, Discontinued and company. |
| Expected Result:  List is sorted based on the column header. |
| Actual Result:  Page is refreshed but values are not sorted. |
| More Information:  Browser: Chrome  Severity: Medium  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  https://lh3.googleusercontent.com/yww75Hx9g4ISnGJ4qkJO4qG6gRCAQ39ktJEMAWHDU4BXah7ktCVLp59S7ys3ipeWgkKB4aytt38V9uob7NUhbPuysw46A9uYTWYLVKJwVSUvIFjeOeeZ69nwsrCadXU6V-7xPnfJ |

7.  Bug#007: “Other” option missing in the drop-down list of company names (Add/Edit page)

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| Summary:  User should have an option to select company name as “Other” if the company name is not found in the list of values in the drop-down field. |
| Steps to Reproduce:   1. Open URL http://computer-database.herokuapp.com/computers 2. On the home page, click on “Add a computer” button 3. Enter computer name as set of alphanumeric characters. 4. Click on “Choose a company” and go through the list of company names. |
| Expected Result:  If the company name is not listed, then user should have an option to select “other” or enter company name |
| Actual Result:  “Other” option missing in the list of company names |
| More Information:  Browser: Chrome  Severity: Low  Reporter: Manzoor  Create Date: 26/05/2019 |
| Screenshots/Logs:  A screenshot of a cell phone  Description automatically generated |