| Test operations for displaying bike rack as a tabular data | | | |
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| Test tables are visible | | | |
| # | Test Steps | Expected Behavior | P/F |
|  | Using a browser of your choice, go to this URL:  <http://1-dot-sanghyeokpark124.appspot.com/>  Log in using Gmail accounts. | On successful login, to the right half of the screen, there is a tab-like widget that contains two tabs:  The first tab contains the table that displays all visible bike rack locations on the map.  The second tab contains a table that will display all favorite bike racks locations marked by the user. |  |
| Test table data is updated in the table | | | |
|  | Log in as admin accounts.  Ensure that there is no loaded data. | The table displays no bike rack data. When “load data” button is pressed, all the parsed bike rack data should be loaded in to the table. |  |
|  | Log in as admin accounts.  Ensure that there is loaded data. | When “remove data” button is pressed, table will be cleared displaying no bike rack data in the table. |  |
|  | Ensure that there is a bike rack locations displayed as markers on the map.  Ensure that there is loaded data. | Number of bike rack data in the table matches the number of markers on the map. |  |
|  | Ensure that there is loaded data  .  Search for bike racks available around for specific point of interest. | If there is no markers on the map after the search, table displays an empty table.  If new markers are displayed after the search, table is updated with the bike rack data of those markers.  Table is updated every time markers on the map are updated. |  |
|  | Ensure that bike rack table is displayed and is filled with bike rack data. | Bike rack data is displayed in a table with appropriate columns. |  |
| Test sort table | | | |
|  | Ensured that table is displayed with the bike rack data loaded.  Ensure that bike rack data are displayed on appropriate columns. | On click of “street number” column, table is sorted by street number in ascending order. On second click of “street number” column, table is sorted by street number in descending order.  On click of “street name” column, table is sorted is sorted by street name in alphabetical order in ascending order. On second click of “street name” column, table is sorted by street name in alphabetical order in descending order.  For every click on columns, table is sorted accordingly by either ascending or descending order of street numbers/street name. |  |
|  | Ensure that table displays filtered bike rack data. | When sorting by street name and street number, the table only sorts bike rack data that is filtered. |  |
| Test filter table | | | |
|  | Click on the button correspond to: “Filter..” | Pop up panel is displayed on the center of the web page with a search option, textbox and search panel. |  |
| 10 | Click on the button correspond to: “Filter..”  Choose the search options “St. Name.”  Type in street name either in Capital letter or lowercase letter to filter for.  Press filter. | If typed street name is invalid, table is updated as an empty table.  If typed street name is valid, table is updated with filtered street name.  There will be no change to the markers on the map whatsoever. |  |
| 11 | Click on the button correspond to: “Filter..”  Choose the search options “St. Number.”  Type in street name either in Capital letter or lowercase letter to filter for.  Press filter. | If typed street number is invalid, the message “invalid street number” is shown.  If typed street number is valid, table is updated with filtered street number.  There will be no change to the markers on the map whatsoever. |  |
| 12 | Ensured that pop up panel is opened.  Click on the button corresponds to: “Quit” | Pop up panel is closed.  There will be no change to the markers on the map and table whatsoever. |  |
| 13 | Ensured that table is updated with filtered bike rack data, either by street name or street number.  Click on the button corresponds to: “clear filter.” | On click of “clear filter” button, the filtered table is de-filtered to original table with original bike rack data.  There will be no change to the markers on the map whatsoever. |  |