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| Test No | Action | Data | Expected Outcome | Actual Outcome | Comments |
| 1 | Get data from API | Sci-Toolset: Discovery API | A return object that is JSON. It should contain the list of geoJSON data. | It returned a JSON object which did contain the geoJSON for the data | n/a |
| 2 | Plot data onto map | API data | Each polygon to be displayed onto the map using the turf/leaflet js packages | Each polygon was plotted successfully. | N/a |
| 3 | Create popup events for the polygons | “” | A popup to be shown on click of the polygon showing the data attached to it. | When clicking a polygon it would show every polygon data. | We had code in the for each loop that shouldn’t have been there, so we moved it and it worked. |
| 4 | Loading in external JSON files and plotting it | JSON file | That the external JSON file is loaded in correctly and the data is successfully plotted onto the map. | The JSON file is read in correctly and we can extract data from it allowing data to be plotted. | n/a |
| 5 | Showing specific polygons on search | API data | When the mission ID is entered it should only highlight the polygons specific to that mission. | The correct polygons were shown on the map and in the search results panel. | n/a |
| 6 | Panning the camera to the results | Search results | When the popup linked is clicked either the Polygon ID or the Mission ID it will pan the camera to the specific polygon or expand out to show all mission ID’s. | The camera correctly panned to the right polygons and mission ID’s. | n/a |
| 7 | Marking the polygons with markers from the results | “” | When the mission ID/Polygon ID is searched for it adds a marker to the searched results | It does mark the corresponding searched results on the map. | n/a |
| 8 | Does search bar allow mission ids | API data | When a mission ID is typed in the search bar accepts the data entered. | The search bar successfully searches for the Mission ID’s | n/a |
| 9 | Does cancelling the search reset the map and populate original data | “” | When clicking the cancel button in the search bar it removes markers and repopulates the map with all the plotted data. | Clicking the cancel search button removes the searched data from results and mapped and repopulates using all plotted data. | n/a |
| 10 | Animations on zooming out when the search is cleared. | “” | When clearing search does the map auto zoom out to show all data. | Cancelling a search does zoom out to show all the plotted data automatically. | n/a |
| 11 | Do the histograms represent the data properly | “” | That the histograms represent what they should according to their titles. | They all show data that they are meant to. | The missions per county one relies on the function of calculate polygons over uk button to be pressed which takes minutes to produce. |
| 12 | Does the sidebar open and close on click | “” | When the sidebar tab is selected it expand out to fit 40% width of the page view. | The tab does open the side panel and it does expand to 40% width of the page. | n/a |
| 13 | Do the panels open and close on click | “” | When the header of the panel is selected it toggles between opening and closing | The headers do open and close when clicked. | n/a |
| 14 | Do the panels automatically open and close during a search | “” | When I search for a mission ID or Polygon ID it open the search results automatically. | The search results panel does slide down automatically when a search is conducted | n/a |
| 15 | Does the data on the panels automatically update on search | “” | When I search for any data the search results panel auto update. | The search results panel does automatically update. | n/a |
| 16 | Does the data on the histograms automatically update on search | “” | When we search for a specific mission ID the histogram automatically updates with the data from the currently searched mission | The histograms do automatically update giving precise data for the searched results. | n/a |
| 17 | Is the API call hidden and secure? | “” | When the website communicates with the api there is no data of the websites api key and passwords as they are handled securely. | There is no data on the api key and passwords used meaning it is secure as sensitive info cannot be obtained | n/a |
| 18 | Does the side panel display the global area and percentage coverage? | “” | When we open the sidepanel it gives the global area in Km^2 and how much the UK covers the global area. | Displays the percentage area the UK covers of the globe and the global area. | n/a |
| 19 | Does the search bar handle erroneous input? | Search results | When the search bar cannot find data that is searched it outputs 0 results rather than erroring. | It does display 0 results and no errors when erroneous input occurs. | n/a |
| 20 | Does the meta data in search results show the following data:  Current Mission ID,  Mission UK Coverage, Total Mission Area and Mission Start Date? | API Data | When we search for a mission it outputs in the search results the data for those headers given. | The mission ID, mission UK Coverage, Total Mission Area and Mission Start Date is shown when you choose to search a Mission ID. | n/a |
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Throughout this Sci-Toolset project we conducted both white and black box testing. This helped us when fixing any bugs and features to ensure it fulfils it purpose and provides no bias as black box was also conducted.