**Real-time**

**Station overview section:**

* This section includes the station type selection dropdown, map to display the location of the stations, station list and a search-bar to search for a specific station.
* API for the station category options is: **/stations/options.**
* Key are coming as response: **category\_list**.
* The data are stored in the state as **category\_list**.
* API in for station list: **/stations/list**. This API gets the list of Stations and its data and is stored in the state in **station\_list**.

1. Category / subcategory selection

* The data will be stored in **category\_selected** and **sub\_category\_selected** in state.
* The default value selected is the category and subcategory in the URL **<Project URL>?cat=2&subcat=[].**
* If no category or subcategory is given in the URL, then the default value selected is Pump Station under Flood.
* On clicking a category, that category is selected along with all the subcategories under it and all other categories get unchecked.
* If a subcategory is clicked, if it is already unchecked, then it will be checked, and if already checked, it will uncheck. And the Category under which it is also gets checked and other subcategories gets unchecked.
* Every time the subcategory or category selected is changed, it is reflected in the URL and accordingly the stations in the map and list is displayed.

1. Map

* The map is displayed with markers on the location of stations from the keys **latitude** and **longitude**.
* The marker color is decided by the status of the station, i.e. if the difference between the **last\_data\_send** time and current time is greater than 15 minutes, the station is considered offline and if it is less than 15 minutes, it is considered online.

The color of the markers will be red for offline, green for online.

Note#

Only for pump station:- Red for Offline, yellow for Online but no pump is ON and Green for Online and at least one pump is ON.

* On clicking a marker, an info window opens and the URL is added with that station ID and the station details box also gets opened of that station.

1. Station list

* The station list consists of the list of stations along with a search bar to search for a specific station.
* The color after the station name in the list is decided by the status of the station, i.e. if the difference between the **last\_data\_send** time and current time is greater than 15 minutes, the station is considered offline and if it is less than 15 minutes, it is considered online.

The color of the markers will be red for offline, green for online.

Note#

Only for pump station:- Red for Offline, yellow for Online but no pump is ON and Green for Online and at least one pump is ON.

* If the URL already has **/stations/:station\_id/**, the station list will show the details of that station.
* If the URL already has **/stations/:station\_id/24-hours-trend**, the station list will show the details of that station and the 24 hour trend for that station.
* On clicking the row against the station on that list, the list is replaced with the latest data of that station and a button for more details.
* On clicking the button, the URL is added with **/stations/:station\_id/24-hours-trend** and a section is added below this section with the 24 hour trend details.

**24 hour trend section**

* After redirecting to the URL <Project URL>**/stations/:station\_id/24-hours-trend**, this section will be focused.
* It is shown below the Station overview section.
* An API is called to get the trend details. The API is: **/stations/:station\_id/details**
* During the fetching of this data, loading placeholders will be displayed until we get the data.
* The data are stored in the state in the key **details**: details of the station.
* From the details, we find out the value for plotting the chart for 24 hours trend from **this.state.details{} -> parameters[] -> values[]**.
* This section will close when the close button in the station list is clicked, or the URL is changed to the base URL or the close button on the info window is clicked.
* The details displayed in this section are changed when another station is selected or the station id in the URL is changed.