User Guide

Sixth Sense Project
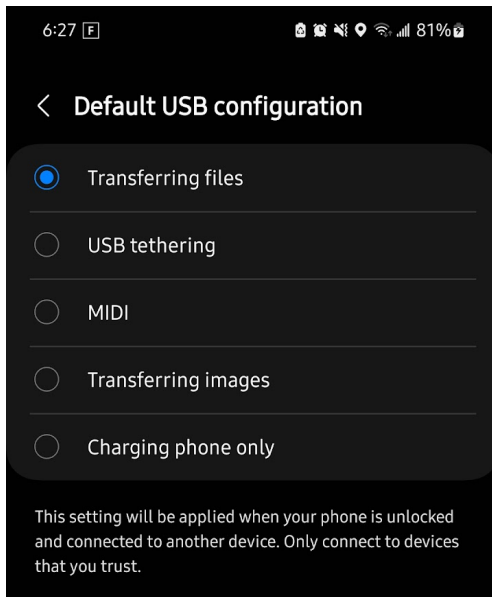## Multisensory Input Puck

Client
Engineering Students

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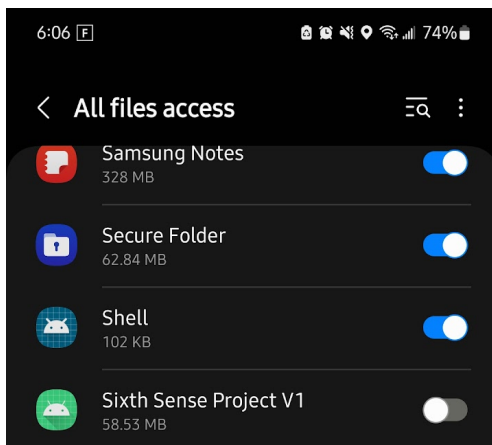Parag Salgotra
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1.0 Install the App

1. Generate the latest apk in the project in Android Studio
2. Move the apk to the phone
3. Install the new apk to the device
4. Under Developer Option of phone setting, make sure the Default USB Configuration is set to Transferring files
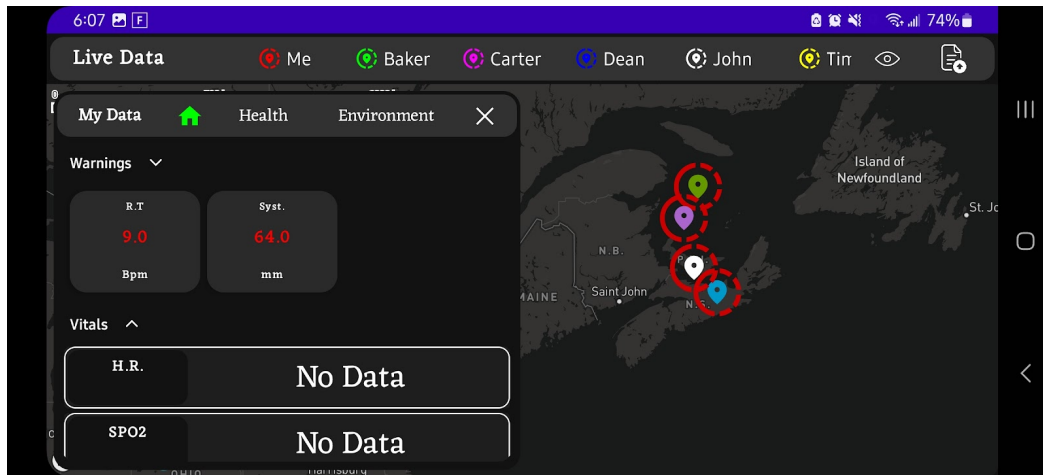

5. Open up the newly installed app. There will be a pop-up window asking for storage permission. Enable it and hit the back button at the top.
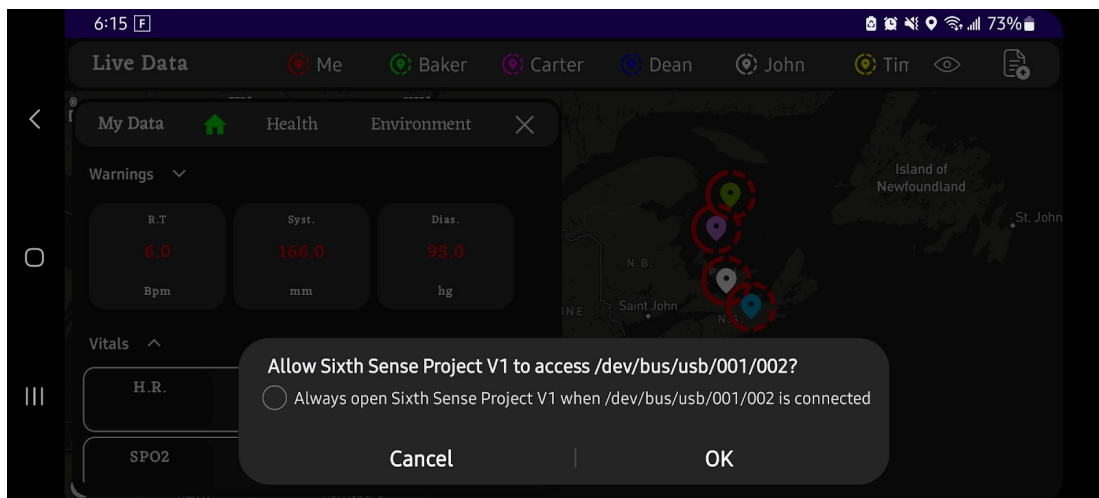

6. The app will now be opened up
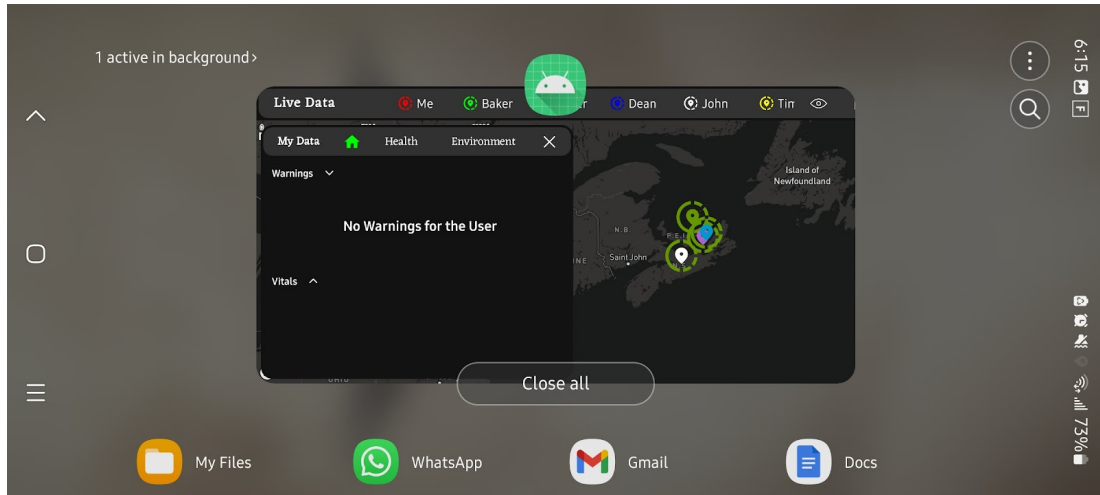
2.0 Connecting the Puck

1. Open up the app and connect then connect the puck. Make sure you do it in this order to make it work.
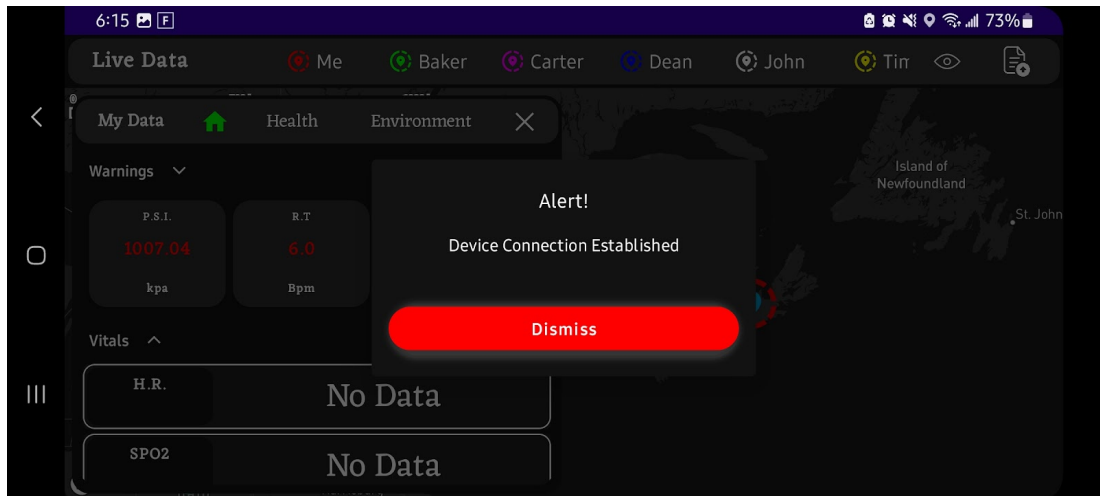

2. Once connected a pop-up will ask for permission. Click the always option and hit OK. In initial start-up after the first install, the will crash and ask the user for permission again. Click the always option and hit OK.

3. The app will reopen after. But close the app completely after auto opening. Then remove the puck again. Note: step 2 and 3 is only done when the app is newly installed.
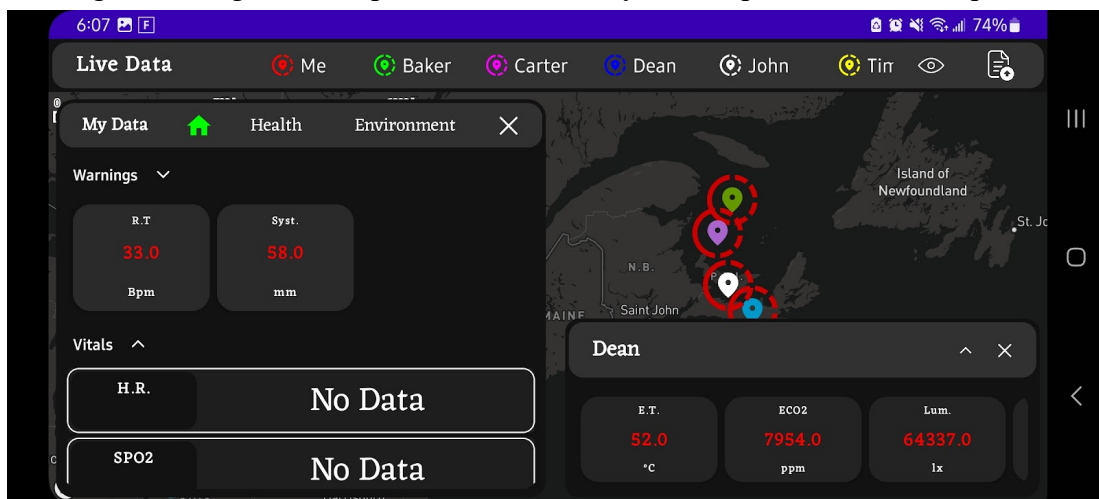

4. Open up the app again. Connect the puck again. Now it will show the alert that the connection was established. Click Dismiss. The app is now ready to be navigated.
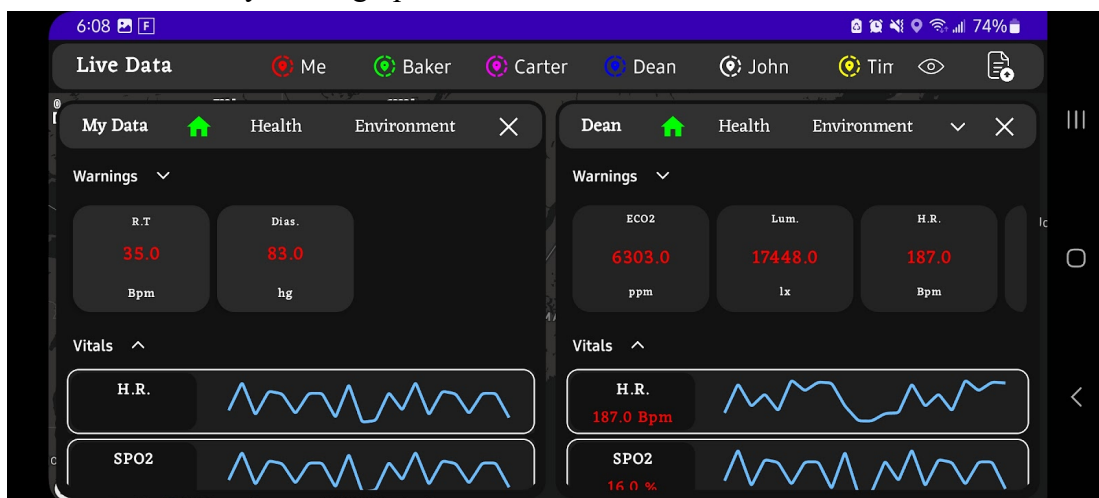
2.0 Navigating the App

1. The initial landing page is the homepage. Here you'll be able to look at the Real-Time data of the main user and the teammates. The background of the page is the map. You'll be able to navigate the map. There will be pins on the map of the location of the user. If the pin is surrounded by a red circle then that user has a warning. If the pin is surrounded by a green circle then the user is safe. There are two ways to look for the data of a member. The nav bar at the top will allow you to look for the data of the member. As well as clicking on the pins will do the same. The cards and graphs in the app will update in real-time.
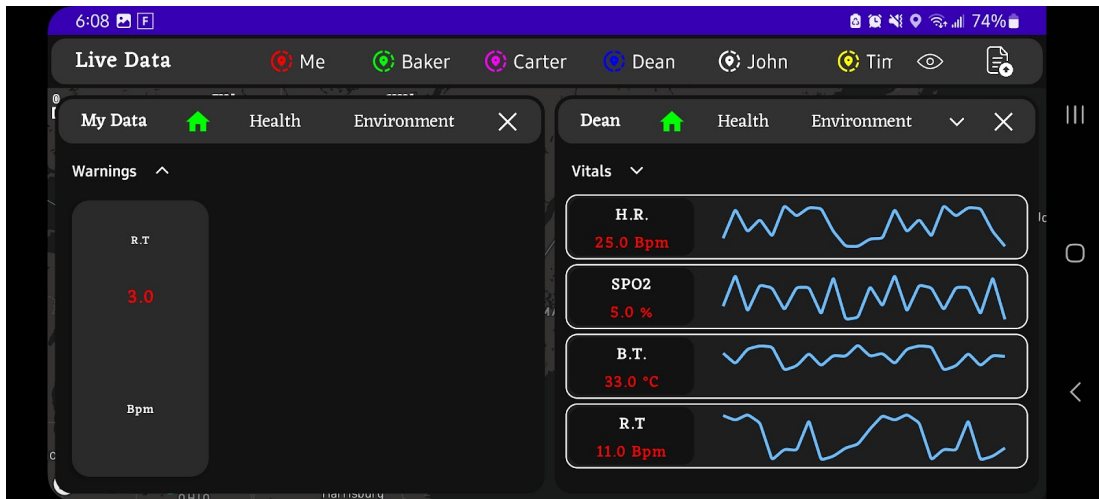   The left panel of the screen is for the main user's data. The right panel is for a selected teammate. Teammates are allowed a quick look view where the panel only shows warnings. Clicking on the expand button allows you to expand to the home panel view.
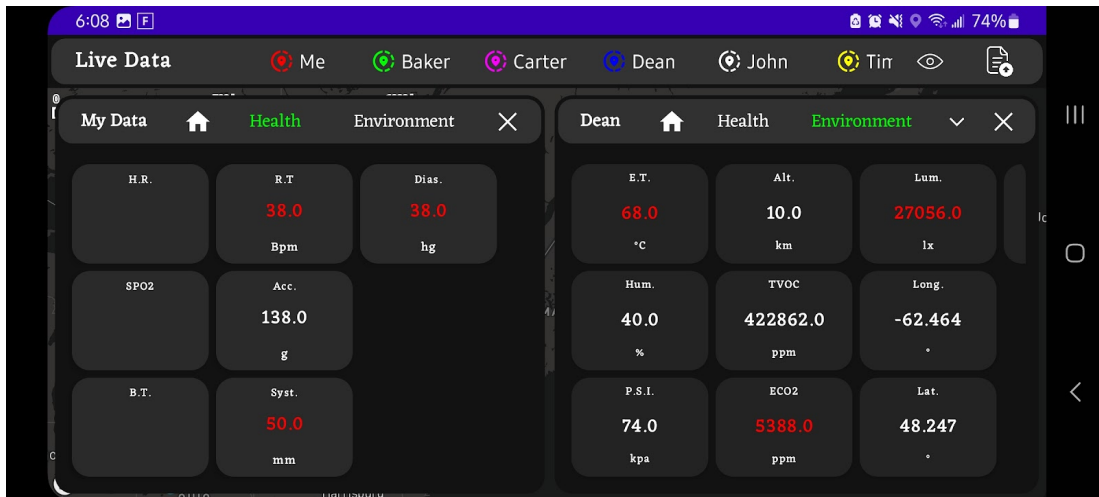

2. Both panels have a home tab, health tab, and environmental tab. The home tab shows warnings of the user along with the vitals. The warnings will always be in card view and the vitals will always be in graph view.
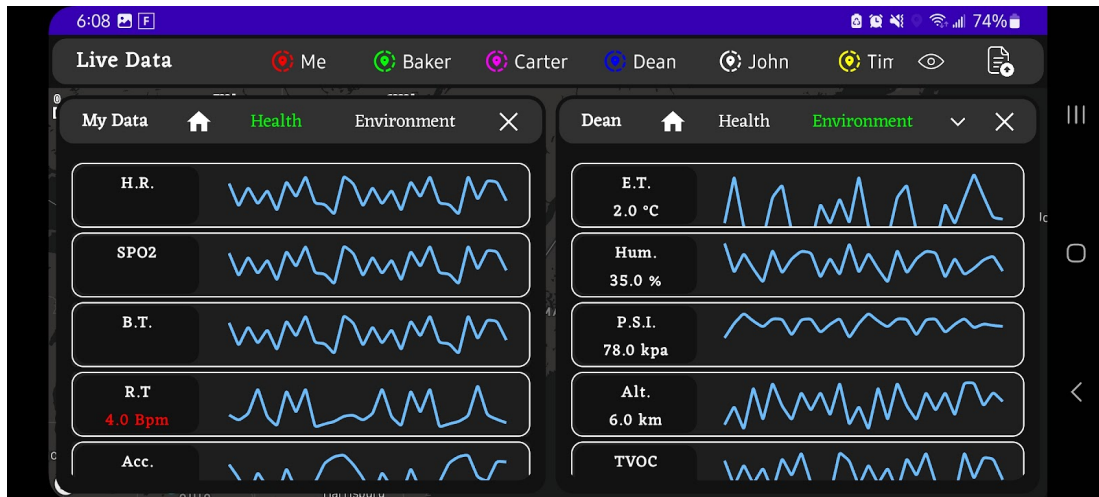
3. Clicking on the warning title or vital title will allow that to take up the whole panel. Clicking on it again or the home button brings it back to the split view.
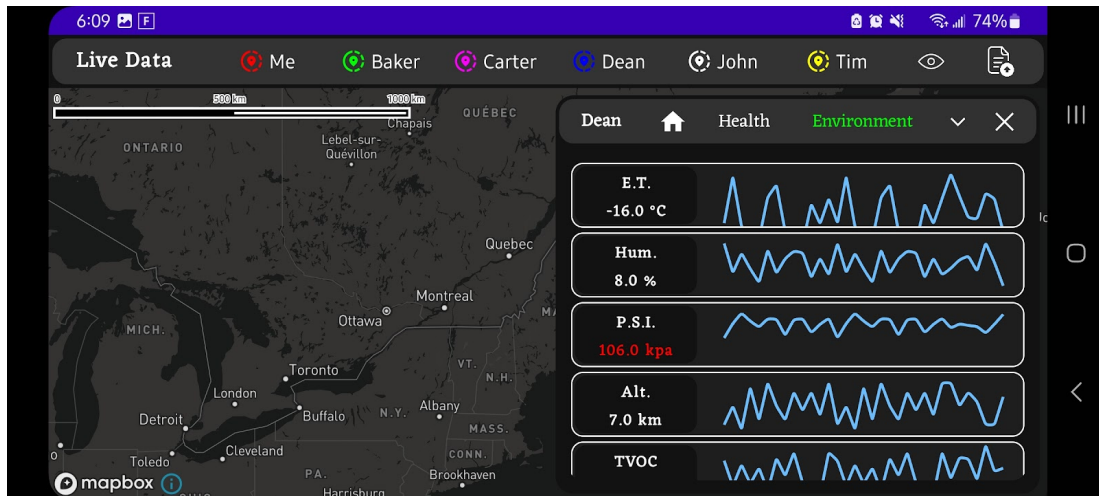

4. Health and Environmental tabs will show the sensors that belong to those categories. The controls for the tabs are different for the main user and the teammate. So you could be in the Health tab or Home tab of the main user while being in the Environmental tab of the teammate.

5. The eye button in the navigation lets you switch between card view and graph view for the Health and Environmental tabs.
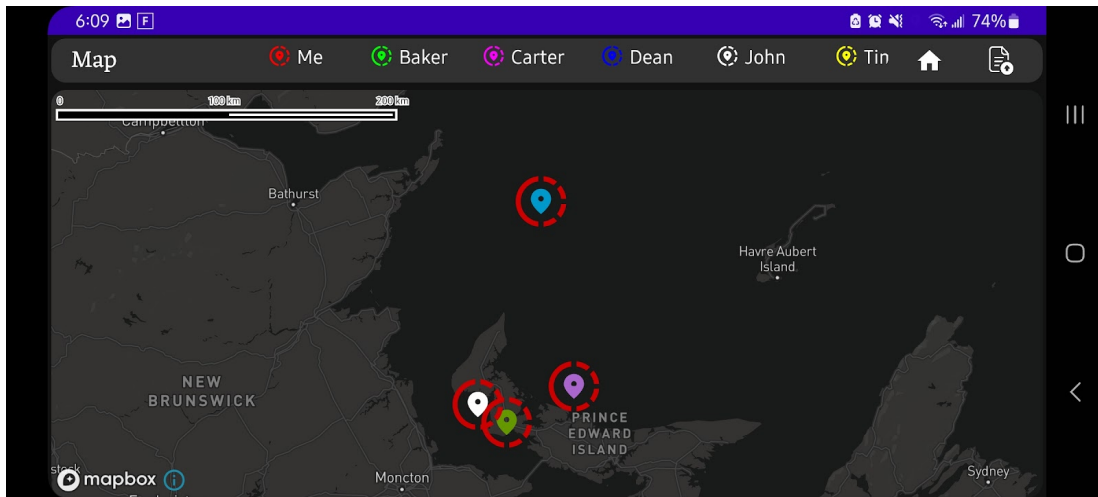

6. The close button on the panels will close that panel. The expand button on the teammate panel lets you go to the quick look view again.
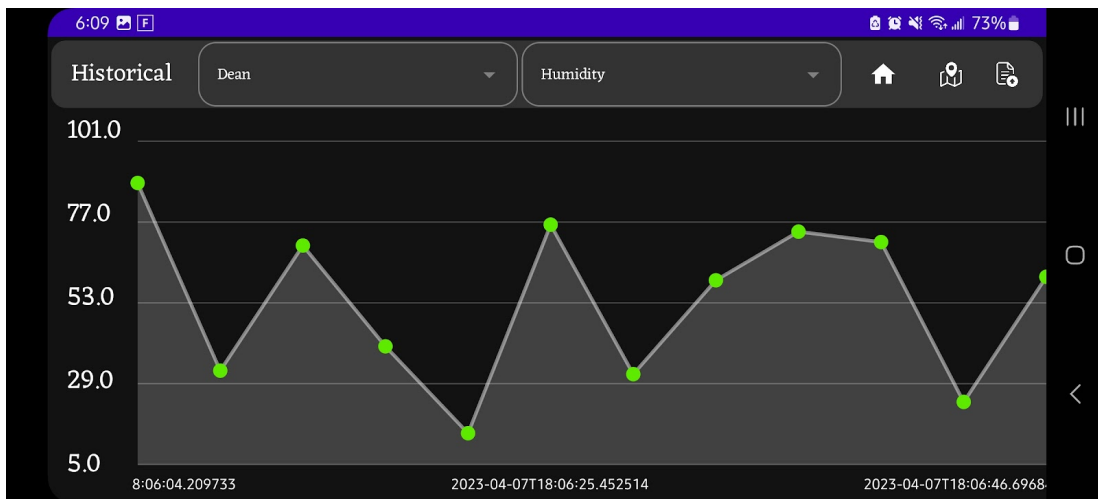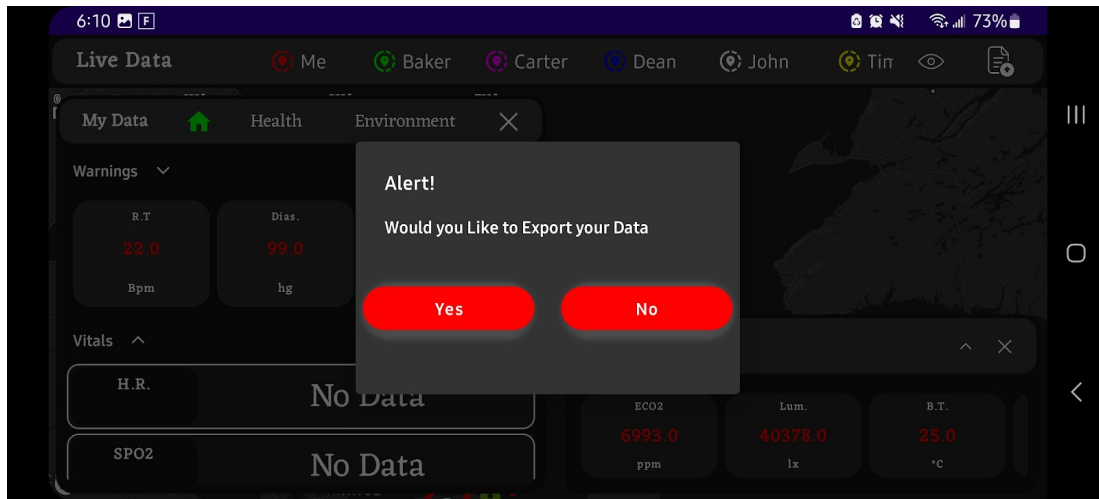
7. Closing both panels will take you to the map screen. To get back to the main screen, you can either select the user from the top nav bar or select the pins on the map.
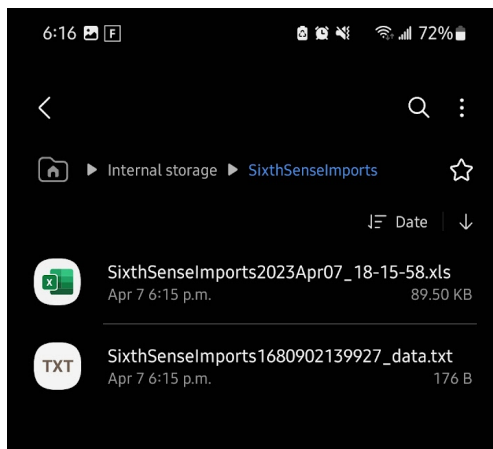

8. From the main screen, clicking on any of the cards with the real-time data will take you to the historical screen of that member and sensor. The historical screen allows you to navigate different team members and different sensors. The graph is scrollable and zoomable. Clicking on the home button takes you to the main screen and clicking on the map button takes you to the map screen.

9. In any of the screens there is an export button that allows you to export all the data in the database. There will be a popup at the button that will let you know the location and status of the import.
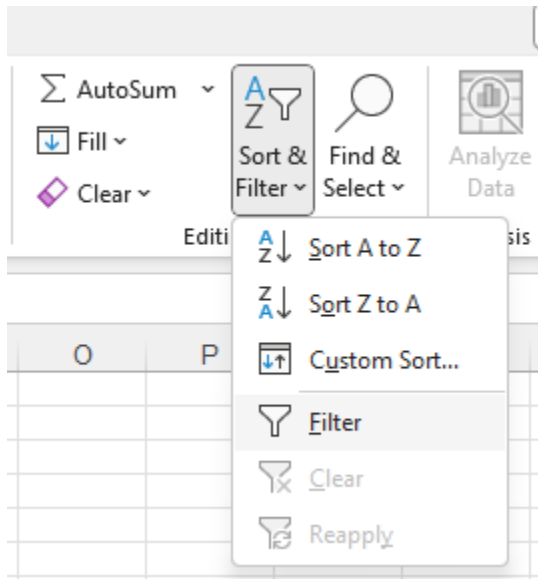

10. The import is always located in the Internal Storage/SixthSenseImports. This folder will contain the excel file import. The excel import will contain all the data from the database. The folder will also have a text file. This text file will contain all the raw data that was sent from the puck for any debugging help.
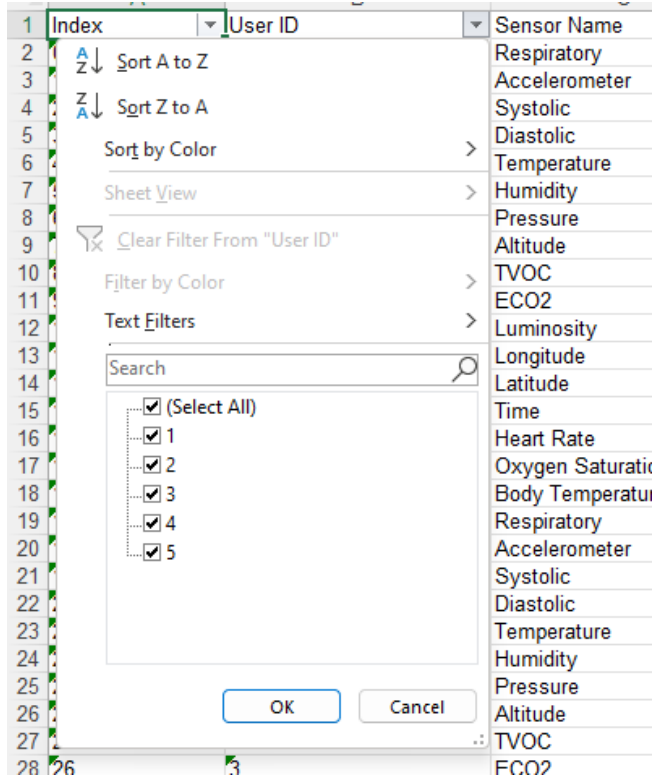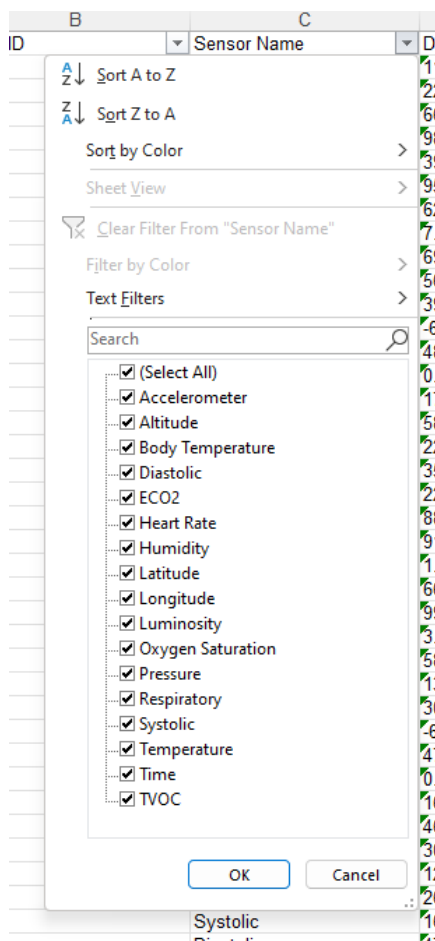
3.0 Sorting the Import File

1. Open up the import file in MS Excel or Google Sheets. Find the sort and filter option at the top and click on Filter. This will allow you to filter through the data.

2. The filter in the User ID column lets you filter the data by the user. The ids are as follows: "Main User: 1", "Baker: 2", "Carter: 3", "Dean: 4", "John: 5", "Tim: 6"

3. The filter in the Sensor Name column lets you filter the data by the sensor.

4. The filter in the Warning Indicator column lets you filter the data by the warning. Note: 1 is for warning data and 0 is for safe data.