

## **Graduate Project Milestone1**

### **Inspiration:**

Data is everywhere and can be generated by anyone at any time. Data types vary from federal level datasets to personal daily data. Abstract data makes no sense, however, it becomes helpful when properly organized and visualized. Mobile devices are more and more popular and gradually taking place some of desktops' jobs due to its portability and computing ability. Mobile visualization will be a good combination of these two technologies and fortunately, it is still not widely used so that there is a lot worth exploration.

### **Audience:**

For this graduate project and my project2, I'll explore mobile visualization on android using open sourced MPAndroidChart library. I will create an app for field workers to collect and visualize their data onsite to avoid the unnecessary back-and-forth. These visualization will be scenario-based and range from domains of Search and Rescue, Wildfire Fighting and Earth Science.

### **Research:**

Current field data collection apps functions are kind of similar, they usually come with an embedded Google Map to finish some basic navigation tasks. And none of them deals with the real-time mobile data visualization. My app will have functions of both data collection and visualization.

### **Content:**

The datasets I am using are public accessible open-sourced data from data.gov. The library I am using to finish visualization is a popular open-sourced android chart library MPAndroidChart.

