



# Commander's Dashboard

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## Introduction

### Problem

Information from 9 different sources are reported to the Commanding General in the form of paperwork and emails. Sifting through the reports is time consuming and does not allow the Commanding General much time to make calculated decisions.

### Objective

Create a dashboard app tailored to the Commanding General that displays diverse data points and key information in a consolidated manner. This will aid the Commanding General in making important decisions quickly and efficiently.

## Technology Stack

### Front-End



### Back-End



### Chart Tools



## Solution

### Tasks Accomplished

- Developed an intuitive UI that utilizes a tabular system which allows the user to reach any information in a few clicks
  - This system gives priority to real-time data and lets the user favorite graphs that are important for their needs
- Set up a dummy database system for each data group and populated it with fake data given to us by the client
  - Also generated fake data to simulate and display trends
- Implemented various data visualizations in the form of bar graphs, line charts, pie charts, and maps per the client's requests

## Reflection

### Challenges

- Dynamic scope and design requirements
  - Initially, the dashboard was going to be a Sharepoint app, but we did not get access to it soon enough. We had to pivot to creating a stand-alone web app instead.
- Getting access to sensitive mock data
  - A lot of the data we were displaying contains sensitive information, so it needed to be properly sanitized before we could interact with it.
- Communicating what we needed from the sponsor and when we should get it

### Project Management

- Developed with the SCRUM methodology
  - Set up weekly meetings with our sponsor and internally
  - Communicated with sponsors through email and internally with Discord
- GitHub
  - managed source code and keep history of changes
  - used the Kanban board to delegate and keep track of tasks

### Learnings

#### Technical Skills

- Data visualization
- Gained experience with a modern tech stack
- Containerized app
- Standardized development process

#### Soft Skills

- Communication
- Time management
  - Deadlines
  - Weekly Meetings