SAGER

Sager Drone
TASK

SAGER

Introduction

The target of this task is to have a drone tracing system, it shows all the drones live in space and classify them based on their registration number as allowed to fly (green) or not (red).

Task Description:

- The front-end gets the drones from the backend and shows them on the map.
- The Drone List (side panel) shows all drones currently in the sky.
- The path of every drone should be shown on the map (from the time of opening the page).
- Drones with registration numbers that start with letter **B** can fly (Green) , others do not (Red). (Ex: SG-**B**A is Green).
- Dashboard may have nothing, or something fun you like to show (bonus points).
- When you hover on a drone, it shows a popup showing the flight time and altitude.
- The counter in bottom right shows the number of **red** drones only.
- *Yaw* value indicates the orientation of the drone, and it should be shown on the map as an arrow in the drone icon.
- When a user clicks on the drone from the list. The map moves to that drone.
- When a user clicks on the drone in the map, it highlights the drone in the list.

Technical Requirements:

- Your task is to implement the **front-end part Only** using **ReactJS.**
- The front-end part should communicate with backend using WebSocket.
- Use Mapbox for implementing the map.
- Use any state management tool you prefer.
- The system must handle thousands of drones without performance drop.
- Use **Desing Patterns** to showcase your code style.
- The Backed is already provided with the task. (README.md included)
- Send me the task on Github (Live host is a big plus).
- Implement the responsive interface.
- You're free to use existing open source React components or Javascript packages/ libraries from npm to complete this task.
- Code is easily understood and communicative (eg. comments, variable names, etc).

The Figma UI Design.

https://www.figma.com/file/KKDrzOQboUrlPk0QbtgjmI/Sager-Task?type=design&node-id=0%3A1&mode=design&t=8JInLSibod30EmwJ-1