Traffic Drones

Scenario:

There are several automatic drones that fly around London and report on traffic conditions. When a drone flies over a tube station, it assesses what the traffic condition is like in the area, and reports on it. A monitoring tool keeps track of the drones, processing all the emitted data to finally create two reports at the end of the day.

Task:

Write a web application where you can view the data from both reports. One of them will contain the list of the drones that flew during the day. The second one will provide the whole set of data reported from all the drones.

In terms of compliance, the team monitoring the system has to be able to make content changes as quick as possible. Therefore, the pages content should be fully dynamic without requiring app changes and a new deployment. Also, the website will be executed in a low memory device with a poor network connection, so it requires to be server side rendered with a focus on performance.

Notes:

- The pages should follow the designs provided in the following link
- The content should be structured accordingly and retrieved dynamically based on the page
- The pages should be responsive across devices
- There are two files containing the required data: drones list *(drones.json)* and the data set generated *(data.json).* Both reports should be retrieved from different endpoints
- The app should be implemented in NodeJS. Use the solution you consider suitable

Remarks:

1. Assume the chance that the endpoints might take more than 2s to retrieve the reports. This fact should affect the page rendering performance as less as possible. Provide performance benchmarks in terms of rendering speed
2. Consider the application will have picks of high volume. Provide a threshold estimation in terms of maximum number of request handled based on your environment

Deliverable:

1. The assignment should be delivered as an application that allows the user to check both reports.
2. This is a fairly open assignment in terms of how you design and structure the solution. You will be judged on the overall quality of the app (consistency, code quality, simplicity, performance).