Technical Design Document – SeaSphere

Goal:

Develop a responsive functional web-based application for viewing, reporting and tracking.

Technologies:

1. **Front-end**: HTML, CSS, JS
2. **Data** – JSON
3. **API** – Google Maps
4. **UI** – CSS, Material-Ui

Workflow:

Front-end:

- Design dashboard interface for viewing vessels data
- Design nav/sider bar for clear filtering options
- Interact with Google Maps API for location component

Data:

- Create JSON file with "dummy" data of motor vessels, aligned with keys that would be used for filtering and values to display in dashboard

Scripts:

- Load JSON and struct in objects for filter, viewing use
- Fetch Google Maps API
- DOM manipulation of list of filtered motor vessels

Participants:

1. Adi Vered
2. Aharon Zena
3. Daniel Melki
4. Sharon

Checkpoints:

1. Day 1: Brainstorm and finalize an idea, design document completion and approval, create GitHub repo
2. Day 2: Build front-end structure, choose color pallete, complete JSON data writing
3. Day 3: Complete front-end UI, JavaScripts functionality with JSON
4. Day 4: Complete JS functionality, filtering, dom manipulation, Google Maps API integration
5. Day 5: Bug fixes, final tests and preparing the presentation