**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