

# ISS TRACKER

## Interactive maps

In this exercise, we ask you to build a small interface to display the live location of the International Space Station.

## Backend

The goal of the exercise is to create REST endpoints exposing the status of the International Space Station.

The status of the ISS can be retrieved from

<https://api.wheretheiss.at/v1/satellites/25544> . See <https://wheretheiss.at/w/developer> for more information.

- The above API should be called not more than once every 20s, up to you to decide how to put that restriction in place.
- The project should expose a GET resource at `/iss/sun` that returns a list of time windows during which the ISS was exposed to the sun, until present time.
- The project should expose a GET resource at `/iss/position` that returns the latitude and longitude of the ISS at present time
- For persistence, in-memory storage is fine for now, but nothing stops you from using a proper database if you want to.
- The code should be **unit tested** and a **diagram** should be produced to document the architecture of the solution.

## Frontend

- Display a full screen map on the browser. You can use the free tier of Mapbox, OpenLayers...
- On the map, show the live position of the International Space Station using the API that you created above.
- Display the time windows when the satellite was illuminated by the sun. You can choose how to display the information (popup on hover, list on the side...) but it must be neat and clear.