

Lab 2

Marko Đukin

```
public static void main(String[] args) throws IOException {
    HttpServer server = HttpServer.create(new InetSocketAddress(port:8080), backlog:0);
    server.createContext(path:"/", new MyHandler());
    server.start();
    System.out.println(x:"Server started on port 8080");
}

static class MyHandler implements HttpHandler {
    @Override
    public void handle(HttpExchange t) throws IOException {
        String path = t.getRequestURI().getPath();
        if (path.equals(anObject:"/")) {
            path = "index.html";
        }

        byte[] response;
        try {
            response = Files.readAllBytes(Paths.get(path));
            t.sendResponseHeaders(rCode:200, response.length);
        } catch (IOException e) {
            response = "404 Not Found".getBytes();
            t.sendResponseHeaders(rCode:404, response.length);
        }

        OutputStream os = t.getResponseBody();
        os.write(response);
        os.close();
    }
}
```

U Javi je napisan jednostavan server koji sluša na portu 8080 i za rutu "/" vraća resurs "index.html".

U index.html je sadržana sva logika prikaza.

Za prikaz karte koristi se OpenStreet map API.

```

<div id="map"></div>
<script>

  var map = new ol.Map({
    target: 'map',
    layers: [
      new ol.layer.Tile({
        source: new ol.source.OSM()
      })
    ],
    view: new ol.View({
      center: ol.proj.fromLonLat([0, 0]),
      zoom: 2
    })
  });

  const data = `
-29.8998,-94.1934,1654067236
-30.148,-93.9219,1654067241
-30.2720,-93.6720,1654067246

```

Stvaranje objekta karte. Zapis koordinata iz naše datoteke.

```
const coordinates = data.trim().split('\n').map(line => {
  const [lat, lon] = line.split(',').map(Number);
  return ol.proj.fromLonLat([lon, lat]);
});

const lineString = new ol.geom.LineString(coordinates);
const lineFeature = new ol.Feature({
  geometry: lineString
});

const lineStyle = new ol.style.Style({
  stroke: new ol.style.Stroke({
    color: 'red',
    width: 3
  })
});
```

Stvaranje crvene linije koja prolazi kroz naše kordinate i predstavlja putanju satelita.

Konačni rezultat:

