Geospatial Software Engineering Challenge

Challenge

Demonstrate your GIS and software engineering skills:
Use any web mapping framework (e.g. Mapbox, Leaflet, Openlayers) to build a small web app displaying the following data **RaCA general locations** and **RaCA SOC pedons** from:

[RaCa Data Tables](#)

Requirements

1. Merge the two tables SOC pedons and general locations into one table, take care to avoid/remove any duplicates in the data.
2. Build a web app containing a map that displays the general locations of the RaCA sampling sites as points.
3. The points should be colored as to the amount of 'SOCstock30' they contain, a legend should explain the color scale.
4. Bonus: containerize the app with docker, so that it can be readily deployed and hosted.
5. Bonus: add different colored point layers for SOCstock5 and SOCstock100 and allow the user of the web app to toggle between the layers.
6. Bonus: Any advanced user interaction features: e.g. drawing a geometry on the map to gather statistics of the points contained in the geometry, uploading a geometry from a file to the map.

Deliverables

Send us your code or link to github/gitlab repo. The code should build/be executable and have at least one html file which can be opened in the latest firefox/chrome version.

Looking forward to your submission, we thank you and wish you the best of success.