

Here Technologies Coding Exercise – Web App

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Details

Here Technologies Coding Exercise – Web App

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- Platform: Web app
- Technology: React

Steps to run the code locally

1. Unzip the project named “here-maps”
2. Open VS Code editor.
3. Run “**npm install**” command and install the node modules
4. Run “**yarn start**” or “**npm start**” command
5. Open browser and the app will run at <http://localhost:3000/>

Libraries used

Names	Reference Links
d3 to parse the csv and read data	https://github.com/d3/d3
Multi select dropdown component to select options	https://github.com/JedWatson/react-select
Switch component to toggle custom icons	https://www.npmjs.com/package/react-switch

Release Notes

1. When the user opens the app, the map is centered around Munich(Germany)
2. There is a multi-select dropdown which enables user to select any restaurants from within Burger King, Subway, McDonalds, KFC
3. The POI data points are fetched from dataSet/poiData.csv
4. The user can also type in the searchable dropdown and fetch from the options
5. The distinct options are dynamically created by reading the name parameter from the csv file
6. The csv file is read and the data points are plotted for all the restaurants by default.
7. Default view is clustering view,however there is a provision for user to switch to custom icons theme where the respective icons are shown instead of clustered marker
8. In the **clustered view**,on clicking markers,a message is shown
9. To change to custom icons, click the switch to the top right corner of the screen. On clicking the **custom icon markers**, respective **bubble infowindows** are created with details like **name, latitude & longitude**
10. A loader (with hardcoded time) is implemented and shown at the center of the screen and loading icon in the dropdown bar
11. The map has a pan functionality to view different parts of the map
12. The map has a default zoom level of 8. The zoom level can be adjusted using + & - buttons which are over layed on the map
13. When a custom icon view is used while selecting multiple restaurants at a time, clustering is still done. However a random icon out of the clusters is chosen and displayed.

Checklist

Working Solution	YES
All requirements are implemented	YES
Legible Code	YES
Maintainability	YES
Extensibility	YES (Can be extended for further development)
Focus on functionality more than UI and Design	YES