

Front-End Developer Test

Deluxe MediaCloud

Goal

The goal of this test is to show:

- Knowledge of JavaScript/TypeScript, design patterns and good practices
- Knowledge of HTML and CSS
- Ability to design and develop Web UIs
- Ability to consume web services
- Extra: knowledge of CSS pre-processors, such as LESS, SASS, SCSS

Task

You will create a customizable weather dashboard, as a responsive single-page JavaScript application.

(See mock-up on the next page)

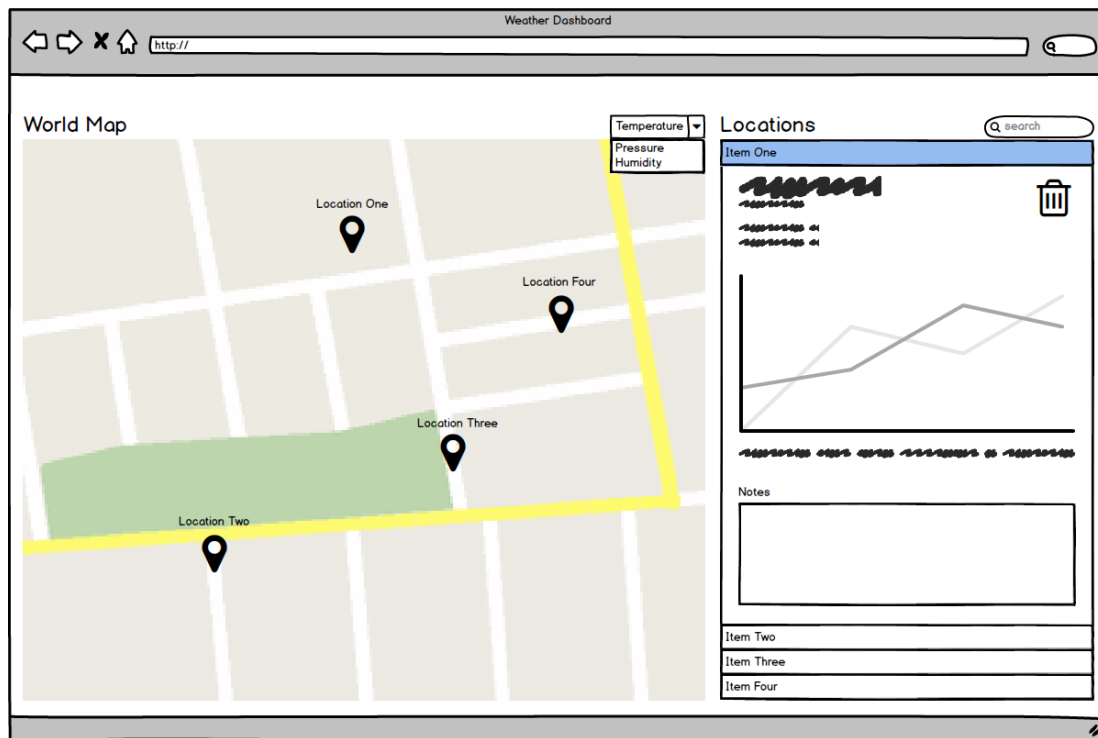
The dashboard will display a map of the world, and the user will be able to drop pins on the map. Above every pin, the application will display information about current weather, depending on the selected data category (temperature, humidity, pressure). Adding a pin should display a modal dialog that asks for location name and confirmation. Adding the location should also add it to the accordion, without the need to refresh the page. Every item of the accordion displays information about the current weather conditions and about forecast for the next 3 days for that location. The user should be able to add notes to each and every location. The user should be able to search for locations (simple pattern matching on location's name). The user should be able to delete a location.

The user preferences should be persisted in browser's local storage.

You may use a client-side framework of your choice. VueJS is preferred, but other frameworks are acceptable as well.

You will create a public GitHub repository for the application code.

UI Mock-Up (for PC layout)



Requirements

- An esthetic, single-page browser application with a responsive layout. Needs to support at least 2 layouts – PC and phone (portrait).
- Use Google Maps functionality as a map.
- Get the current weather and forecast: <https://openweathermap.org/>
- Render a chart with: temperature, min/max temperature, pressure for the next 3 days
- Gracefully handle API failures, network latency and packet loss
- Don't use JQuery
- No authentication / authorization is required

Notes

Application will be tested using latest Chrome version.

Functionality of the application is the main focus, but its esthetics will earn you extra points.

Deliverables

- Link to the GitHub repository with the code of the application
- List of steps required to deploy and execute the application
- Discussion of the solution
- Anything else that impresses :)

Good luck!