Project Report

Project Overview

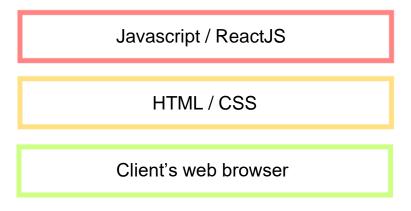
A web application that tells a city's weather in 3 ways: Minute, hourly and daily. It will also include a media section that shows weather related news and a map displaying the city and its surrounding weather information that is color coded for air temperature.

SDLC

Model: Prototyping

We chose to use the prototyping model because our research deemed it very beginner friendly. We prefer having a clear representation of our project before starting the development so that we can discuss any features we may want to add/remove prior.

Technology Stack



Client's Side

<u>APIs</u>

- 1. One Call: retrieves minute, hourly, and daily weather forecasts. Also included are national weather alerts and historical data from up to 5 days prior.
 - As Max, I want to play outdoor basketball so we don't have to reserve an indoor court.

- As Julia, I want to invite my friends so we can enjoy brunch in our backyard.
- 2. Weather Maps: allows integration of weather maps on our website that features precipitation, clouds, pressure, temperature, wind, and more.
- 3. Statistical Weather Data: Provides statistical data on main weather parameters for any day and month of the year based on historical weather data. The data is updated every hour.
- 4. News: Displays recent news that go as far back as 7 days. Searching of the news can be done through keywords.
 - As kevin, I want to know the most interesting news in the town, so I have something to say at the dinner table.
 - As Fred, I want to know more about the city, so I can write more in my travel diary.

Schedule

First project milestone, completion of report and presentation for the project. marks start of development/coding stage Make necessary changes to prototype and make refinements to the project. Document changes and start creation of final report and presentation



2 Repoi

Report and Presentation (February 19, 2022)



Functional Prototype



Finish Development (March 26, 2022)



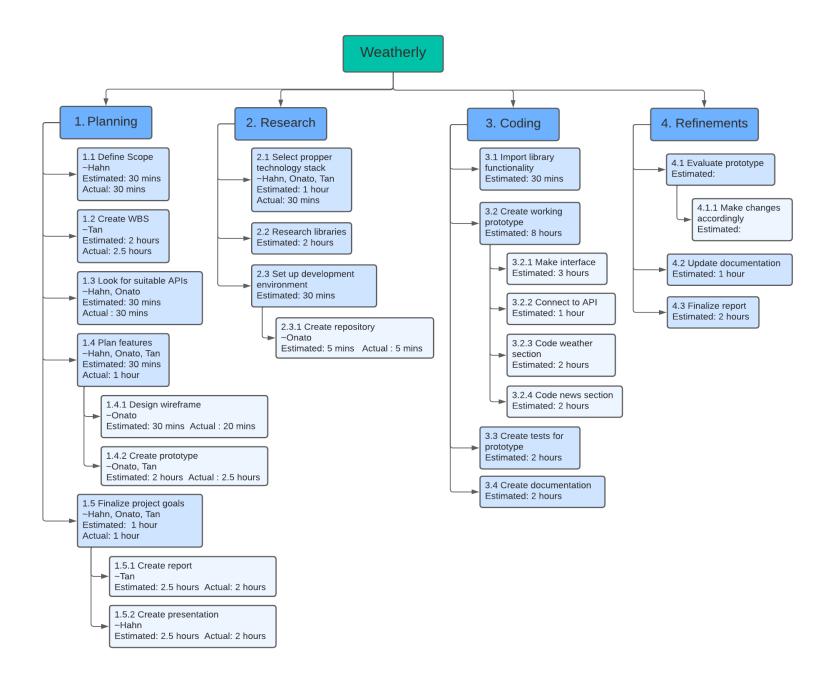
Finalization

Final report and presentation of project

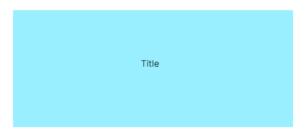
Have a somewhat functional prototype by middle of march, with simple a simple interface and properly displayed information

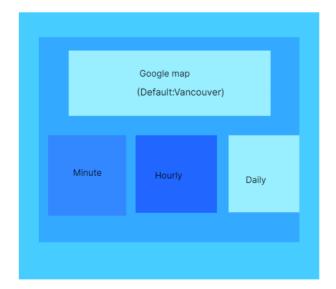
Start of planning phase, brainstorm ideas for project and define project logistics from scope, wbs, planned features, etc.

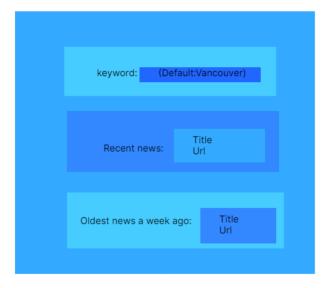
WBS



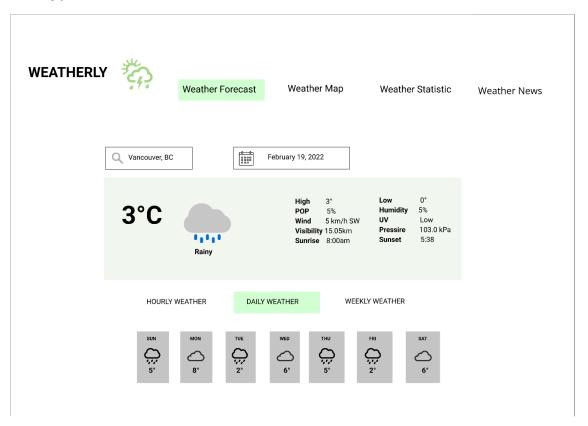
Wireframe



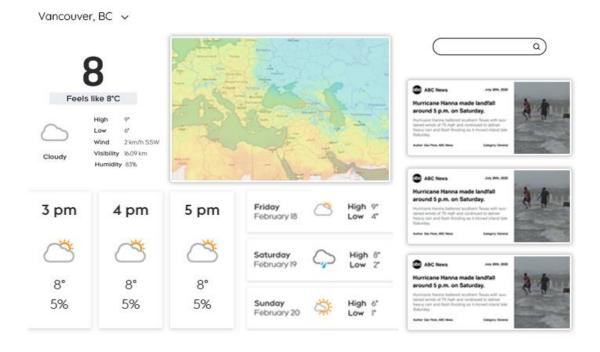




Prototype

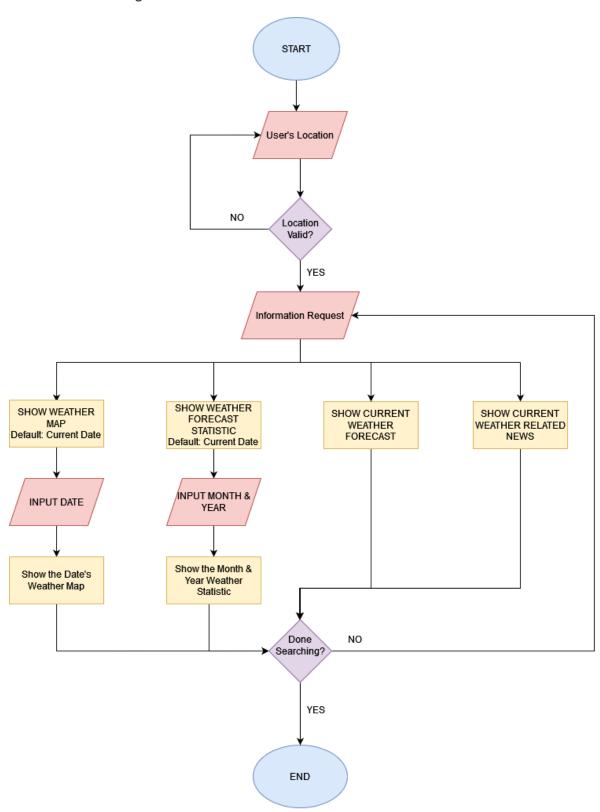


Weatherly



Data Flow Diagrams

Low-level diagram



Low-level diagram

