

Project Report

Project Overview

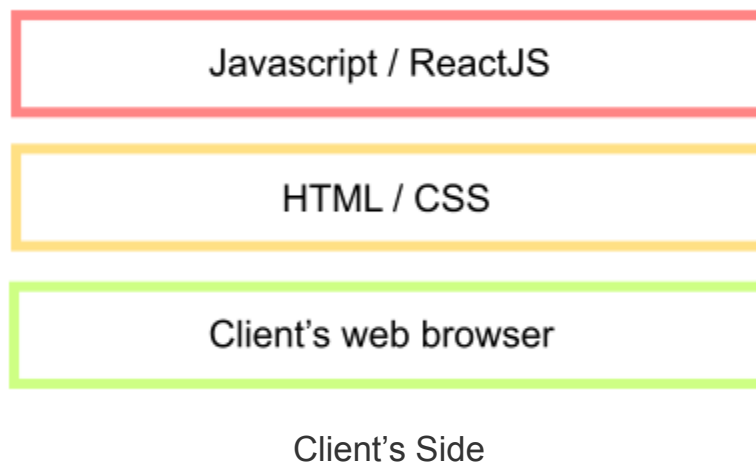
A web application that tells a city's weather in 3 ways: Minute, hourly and daily. It will also include a media section that shows weather related news and a map displaying the city and its surrounding weather information that is color coded for air temperature.

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

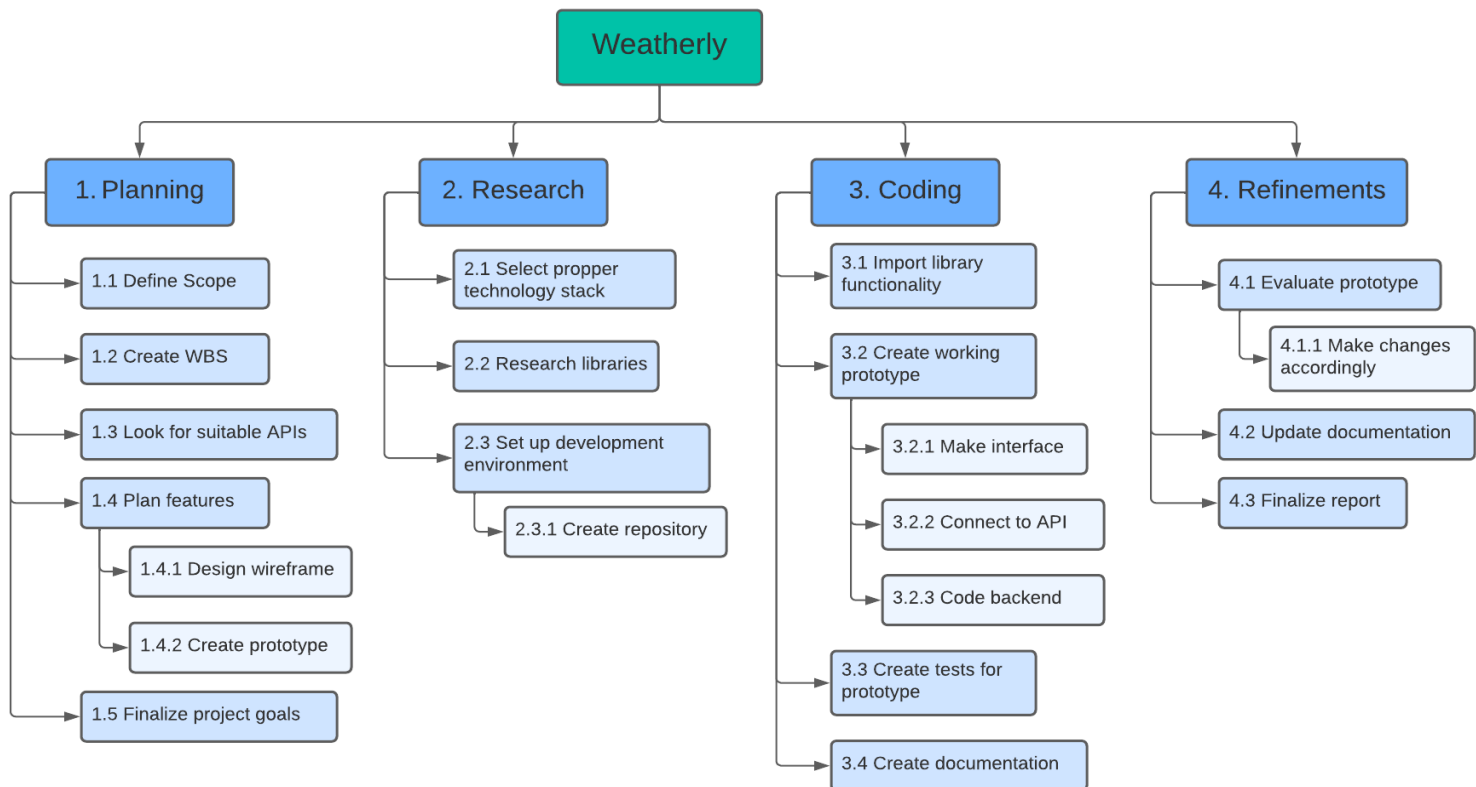


APIs

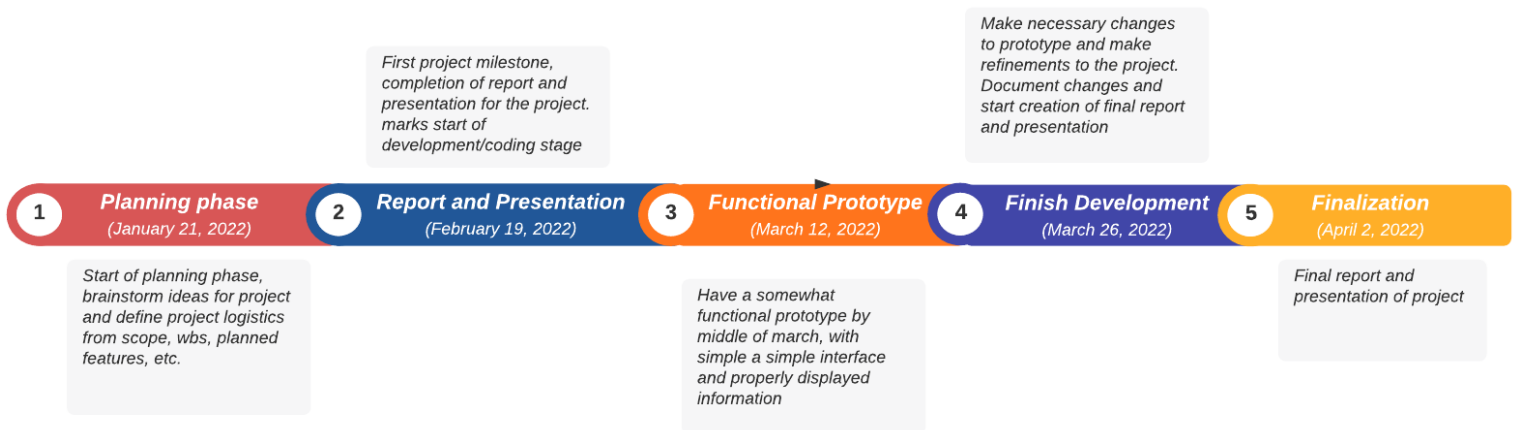
1. One Call: retrieves minute, hourly, and daily weather forecasts. Also included are national weather alerts and historical data from up to 5 days prior.
 - As Max, I want to play outdoor basketball so we don't have to reserve an indoor court.

- 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.

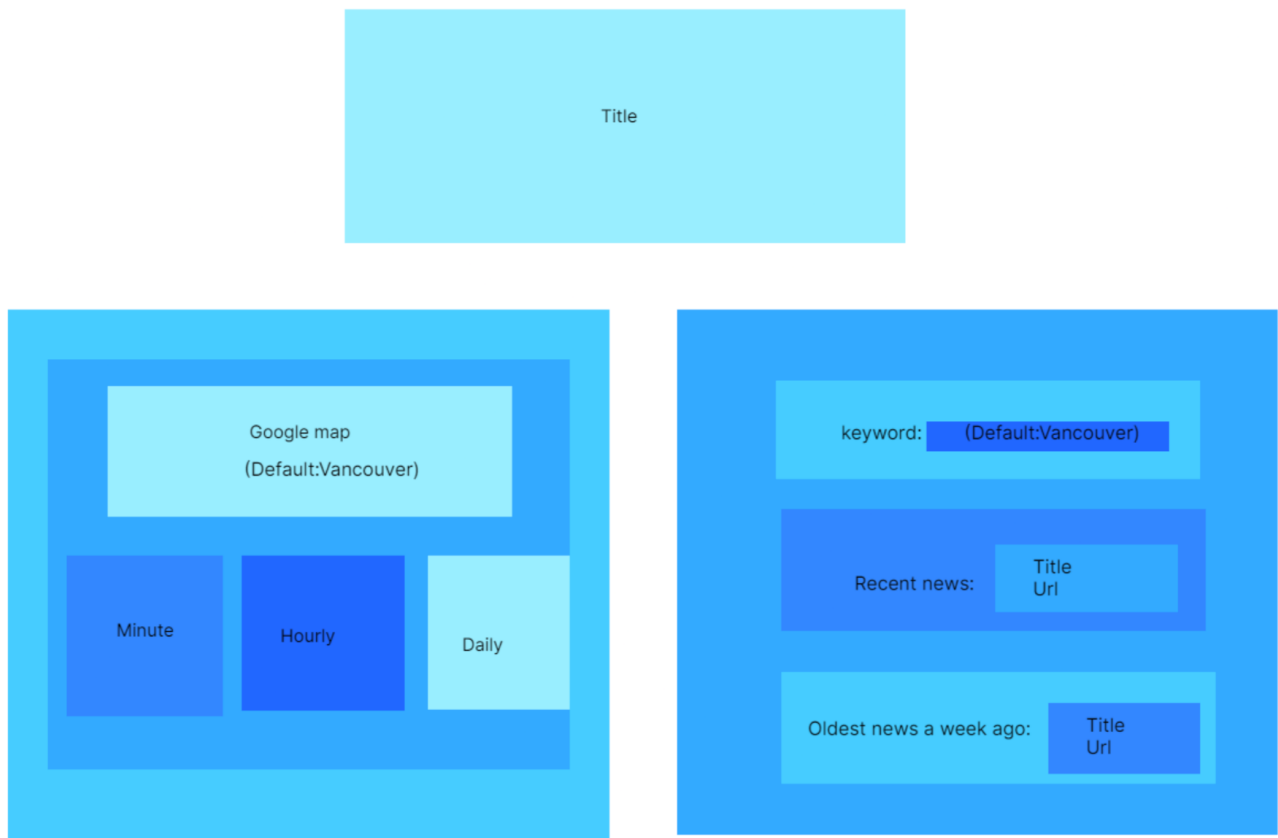
WBS



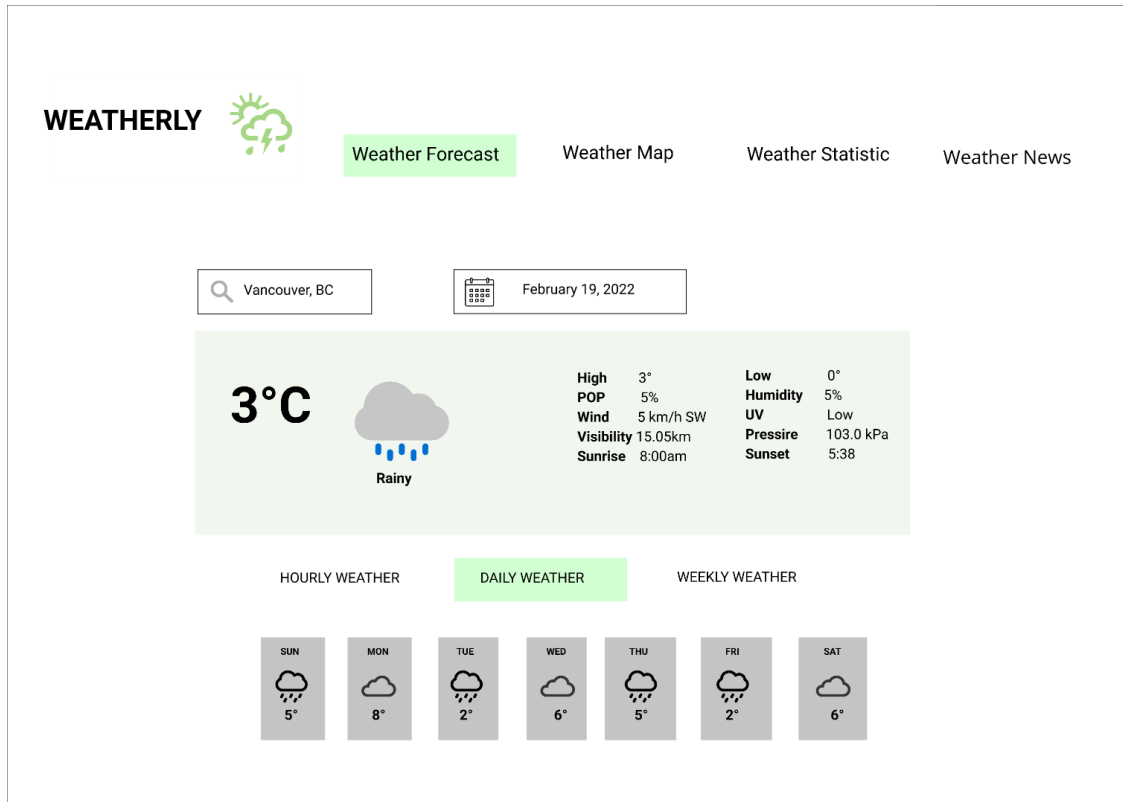
Schedule



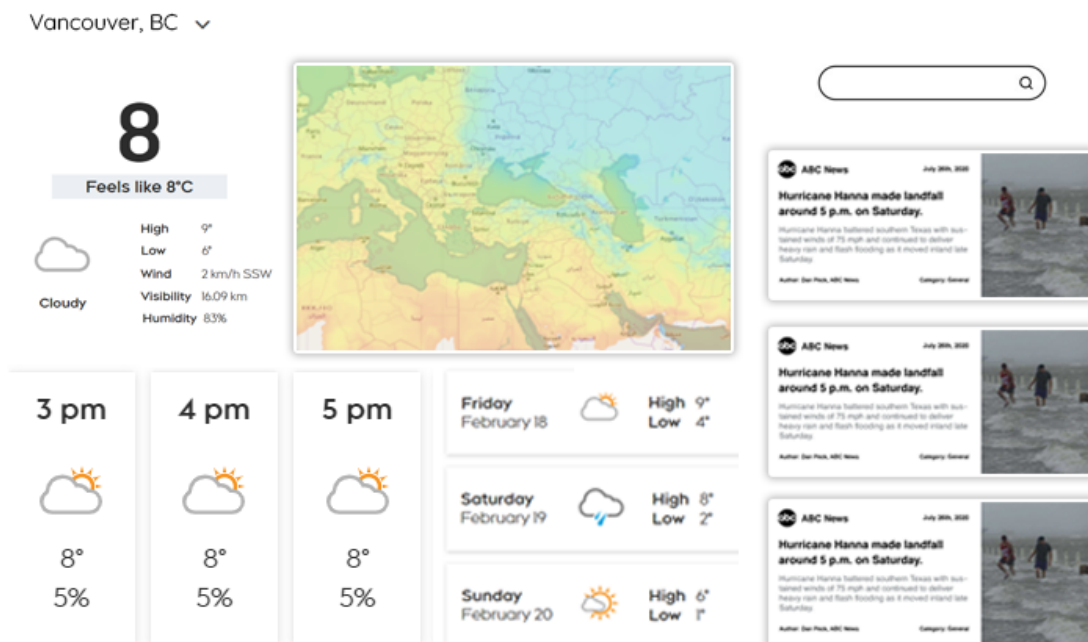
Wireframe



Prototype

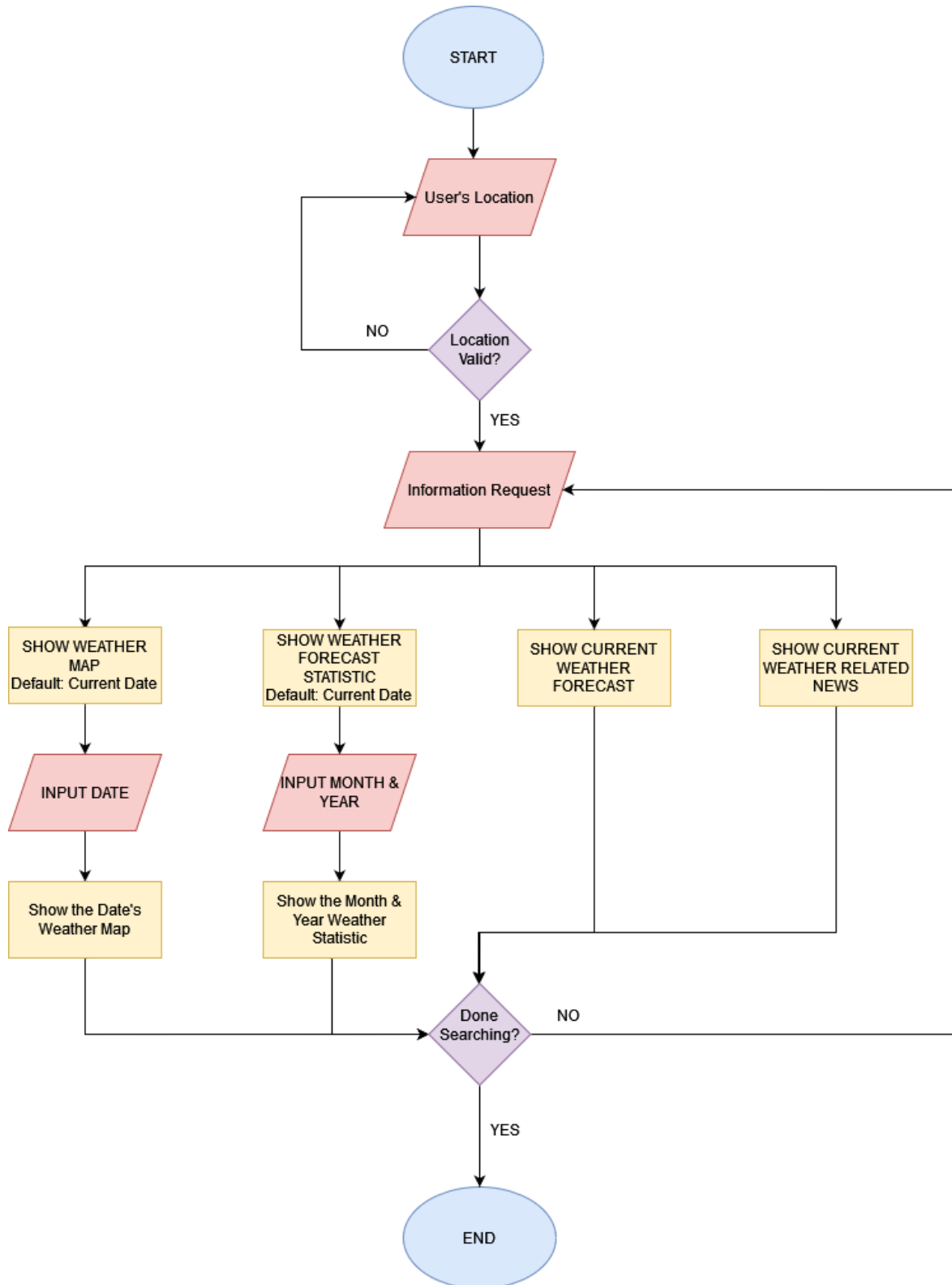


Weatherly



Data Flow Diagrams

- Low-level diagram



- Low-level diagram

