

# CPSC 2350 Project

Feb 19, 2022

Instructor: Parsa, Rajabi

Group 4: Joon, Hahn. Christopher, Tan. Hector, Onato



# 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.

# User stories

---

## 1) Weather API

---

-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.

## User stories

### 2) News API

-As kevin, I want to know the most interesting news in the town, so I have something to say at dinner table.

-As Fred, I want to know more about the city, so I can write more in my travel diary.

# Technology stack

HTML: to create web page

CSS: to beautify the web page

JAVASCRIPT: To interact between client-side and server side

REACTJS: to make the web page fast and simple.

# APIs

- **1\_ One call api:**

- A)Minute forecast
- B)Hourly forecast
- C)Daily forecast

- **2\_News api:**

- A)Displays the name of the city from the weather api
- B)Displays recent news from the city
- C)Displays news from the past 7 days

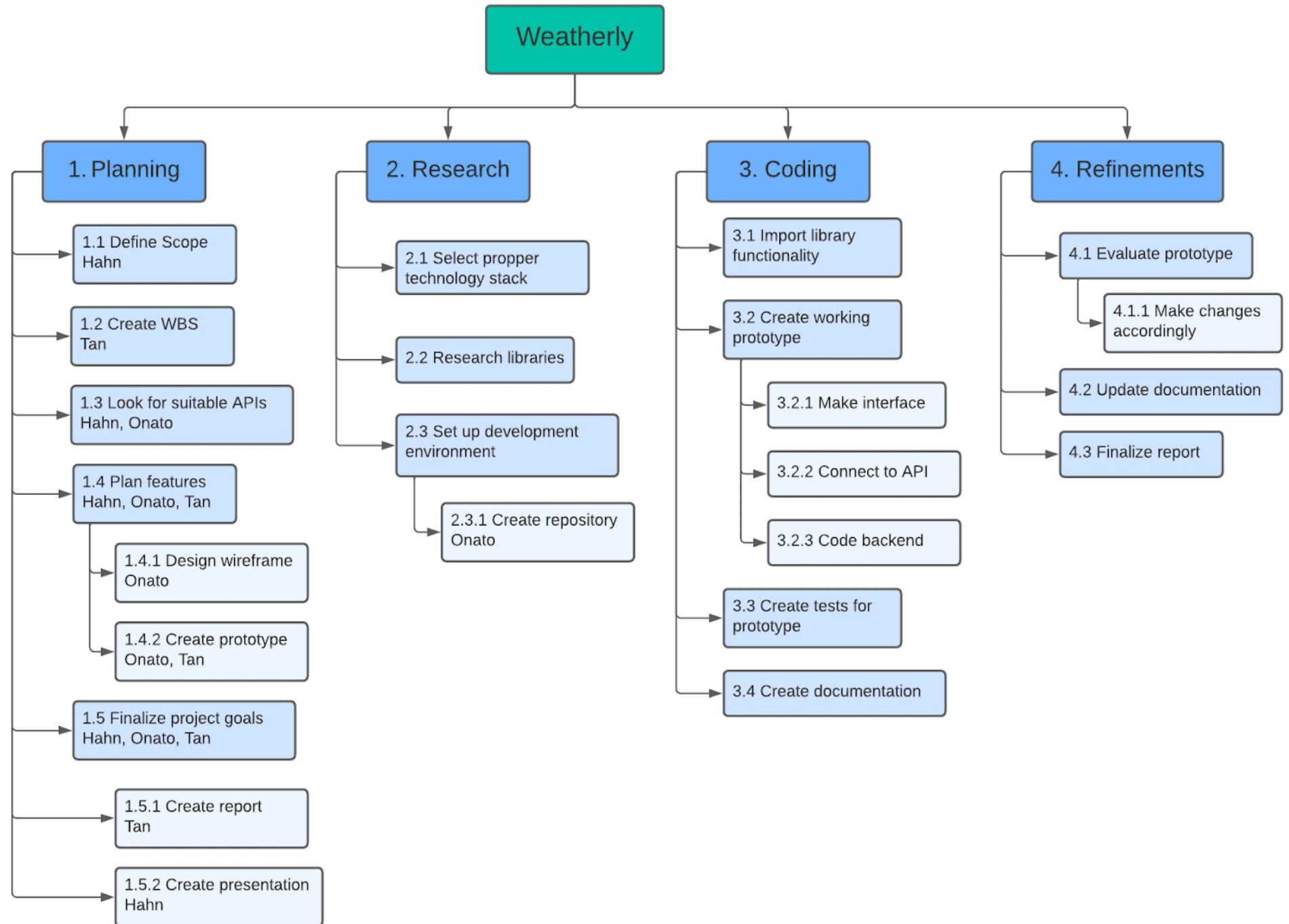
- **3\_Weather map api:**

- A) Displays the current weather map
- B) Forecast weather maps for 4 days (96 measurements)
- C) Historical weather map archive since 14 September, 2020

- **4\_Weather Statistic api:**

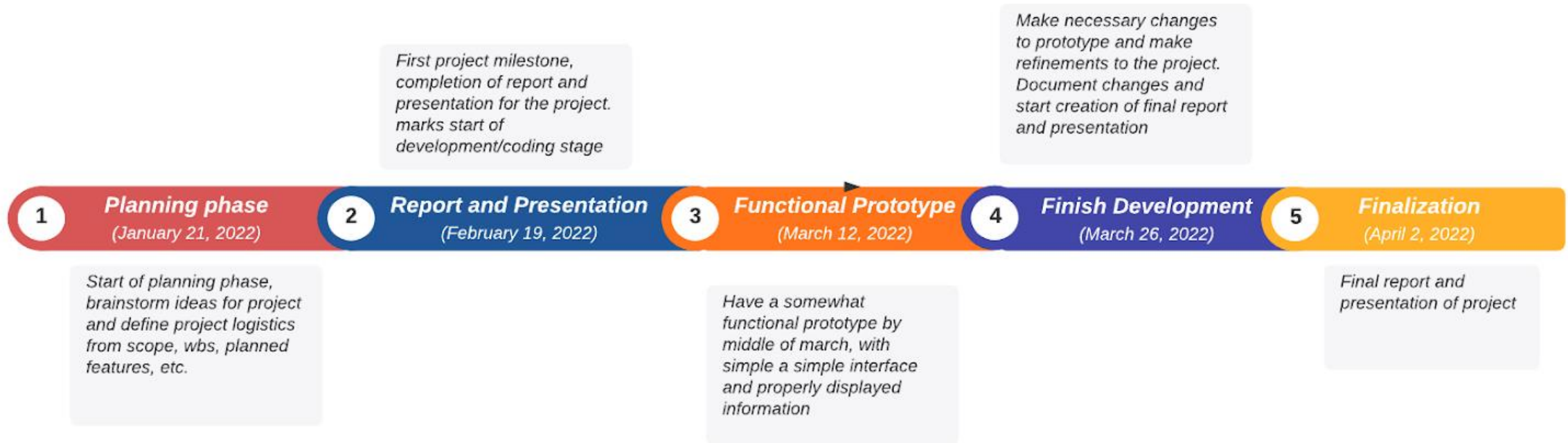
- Displays the statistical data for:
- A) Temperature and Pressure
- B) Humidity and Wind
- C) Precipitation and Clouds

# WBS





# Project schedule



# Wireframe

Title

Google map  
(Default:Vancouver)

Minute

Hourly

Daily

keyword: (Default:Vancouver)

Recent news: Title  
Url

Oldest news a week ago: Title  
Url

# Prototype

WEATHERLY



Weather Forecast

Weather Map

Weather Statistic

Weather News

Vancouver, BC

February 19, 2022

3°C



Rainy

High 3°  
POP 5%  
Wind 5 km/h SW  
Visibility 15.05km  
Sunrise 8:00am  
Low Humidity 0°  
UV Low  
Pressure 103.0 kPa  
Sunset 5:38

HOURLY WEATHER

DAILY WEATHER

WEEKLY WEATHER

SUN



5°

MON



8°

TUE



2°

WED



6°

THU



5°

FRI



2°

SAT



6°

Vancouver, BC

8

Feels like 8°C



Cloudy

High 9°  
Low 6°  
Wind 2 km/h SSW  
Visibility 16.09 km  
Humidity 83%

3 pm



8°

5%

4 pm



8°

5%

5 pm



8°

5%

Friday  
February 18



High 9°  
Low 4°

Saturday  
February 19



High 8°  
Low 2°

Sunday  
February 20




High 6°  
Low 1°



# WEATHERLY

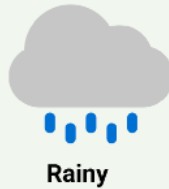
[Weather Forecast](#)[Weather Map](#)[Weather Statistic](#)[Weather News](#)

 Vancouver, BC



February 19, 2022

## 3°C



Rainy

**High** 3°  
**POP** 5%  
**Wind** 5 km/h SW  
**Visibility** 15.05km  
**Sunrise** 8:00am

**Low** 0°  
**Humidity** 5%  
**UV** Low  
**Pressure** 103.0 kPa  
**Sunset** 5:38

[HOURLY WEATHER](#)[DAILY WEATHER](#)[WEEKLY WEATHER](#)

SUN



5°

MON



8°

TUE



2°

WED



6°

THU



5°

FRI



2°

SAT



6°

**WEATHERLY**



Weather Forecast

Weather Map

Weather Statistic

Weather News

 Vancouver, BC



February 19, 2022

BRITISH COLUMBIA WEATHER RADAR



WEATHERLY



Weather Forecast

Weather Map

Weather Statistic

Weather News

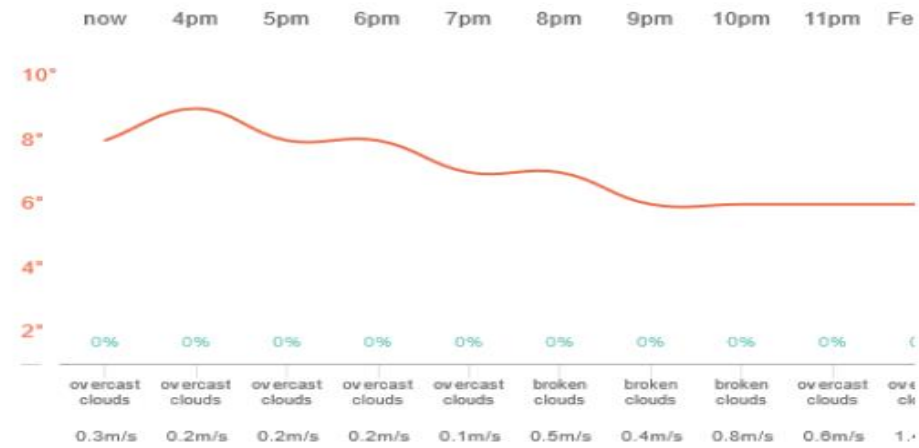


Vancouver, BC



February 19, 2022

### Hourly forecast



HOURLY FORECAST

DAILY FORECAST

WEEKLY FORECAST

WEATHERLY



Weather Forecast

Weather Map

Weather Statistic

Weather News



Vancouver, BC



February 19, 2022

#### LATEST WEATHER NEWS - BC

WEATHER

February 15, 2022 1:16 pm



### Climate change made B.C. floods at least twice as likely, study suggests

The study concludes that the likelihood of similar events in the future will only increase as global warming continues to upend normal weather patterns.

PLAY VIDEO



WEATHER

February 7, 2022 12:11 pm



### B.C. announces \$228M to help farmers, ranchers impacted by floods

By **Kristen Robinson** Reporter / Producer

Ranchers Rhonda and Wayne MacDonald joined dozens of others as they rode their horses into Merritt Sunday for a rally in support of the long anticipated agri-recovery program.

PLAY VIDEO





# Weatherly

Vancouver, BC ▾

8

Feels like 8°C



Cloudy

High 9°  
Low 6°  
Wind 2 km/h SSW  
Visibility 16.09 km  
Humidity 83%



3 pm



8°

5%

4 pm



8°

5%

5 pm



8°

5%

Friday  
February 18



High 9°  
Low 4°

Saturday  
February 19



High 8°  
Low 2°

Sunday  
February 20



High 6°  
Low 1°

ABC News

July 26th, 2020

**Hurricane Hanna made landfall around 5 p.m. on Saturday.**

Hurricane Hanna battered southern Texas with sustained winds of 75 mph and continued to deliver heavy rain and flash flooding as it moved inland late Saturday.

Author: Dan Pock, ABC News

Category: General



ABC News

July 26th, 2020

**Hurricane Hanna made landfall around 5 p.m. on Saturday.**

Hurricane Hanna battered southern Texas with sustained winds of 75 mph and continued to deliver heavy rain and flash flooding as it moved inland late Saturday.

Author: Dan Pock, ABC News

Category: General



ABC News

July 26th, 2020

**Hurricane Hanna made landfall around 5 p.m. on Saturday.**

Hurricane Hanna battered southern Texas with sustained winds of 75 mph and continued to deliver heavy rain and flash flooding as it moved inland late Saturday.

Author: Dan Pock, ABC News

Category: General





# Data Flow Diagram

