

CPSC 2350 Project

Feb 19, 2022

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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

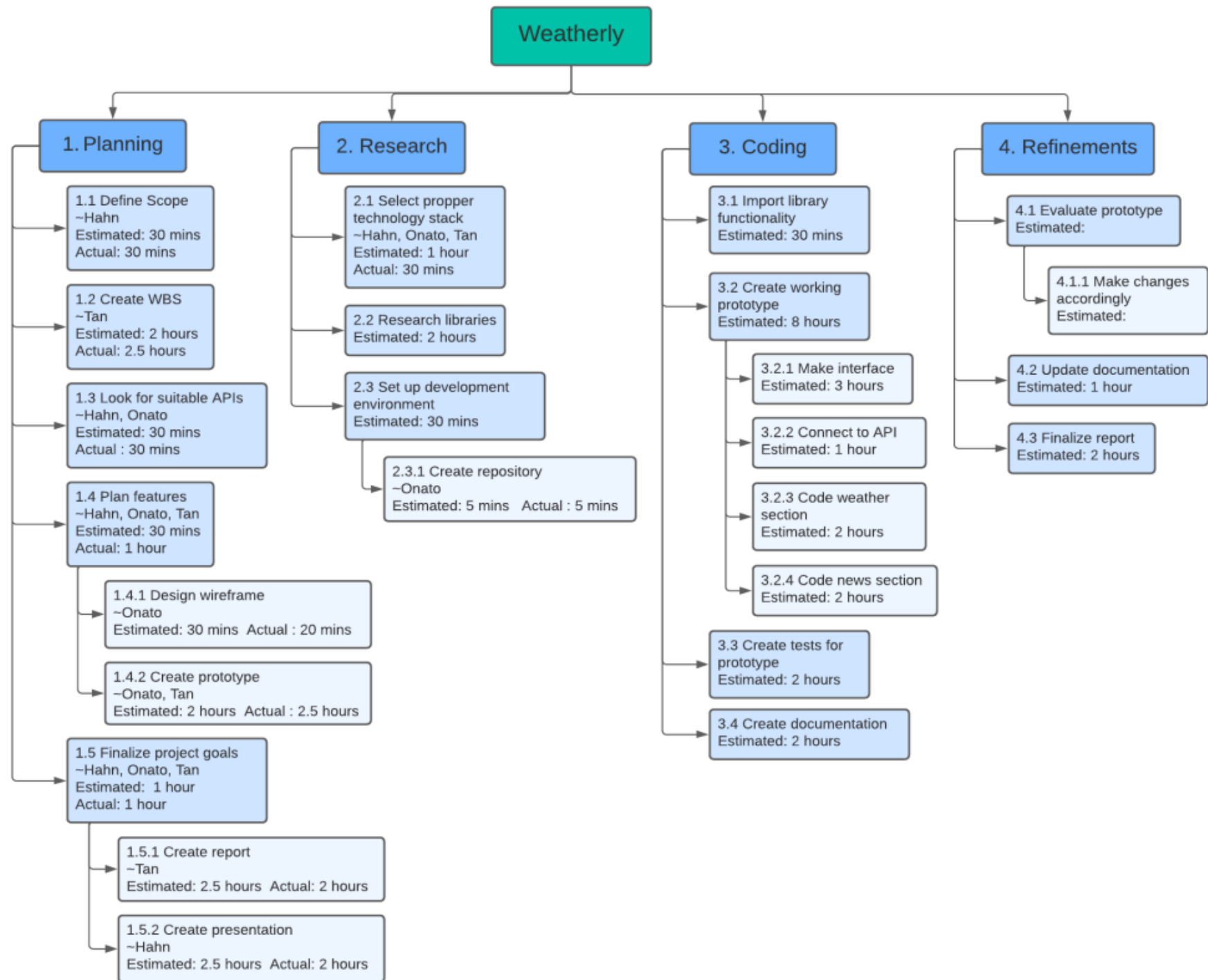
- **3_Weather map api:**

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

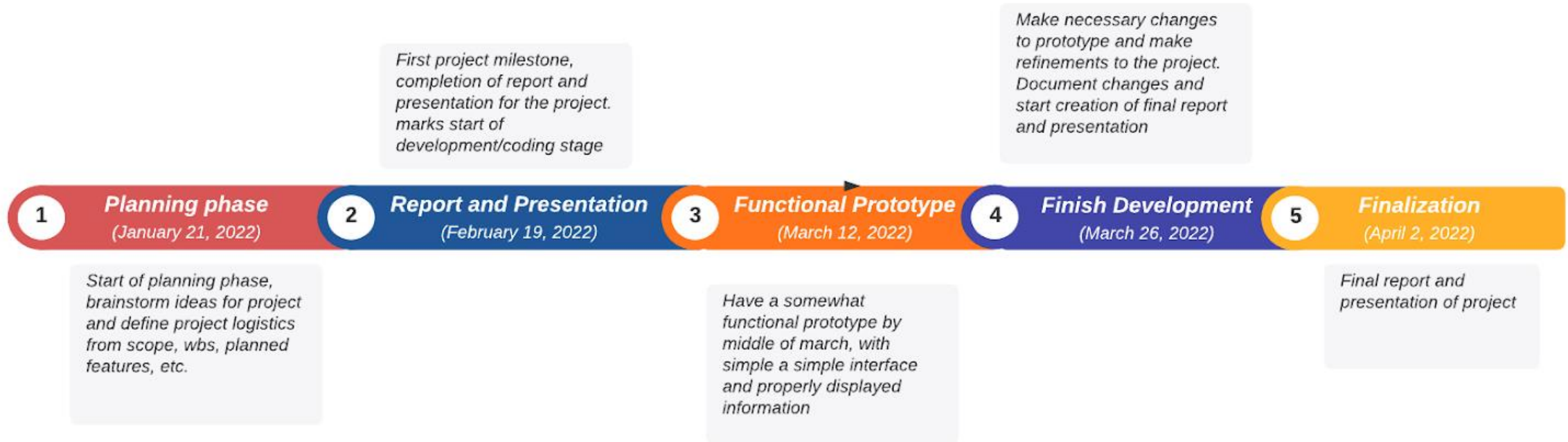
- **4_Weather Statistic api:**

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



ABC News

July 20th, 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 Pica, ABC News

Category: General



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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

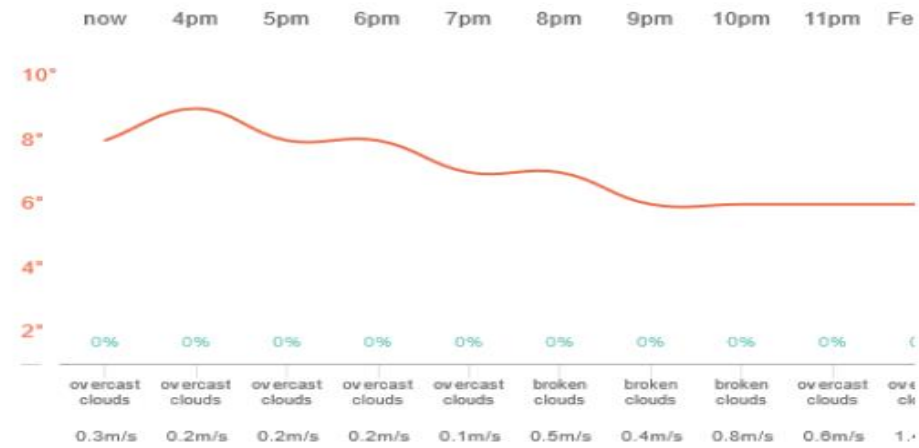


Vancouver, BC



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 Pook, 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 Pook, 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 Pook, ABC News

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Data Flow Diagram

