

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

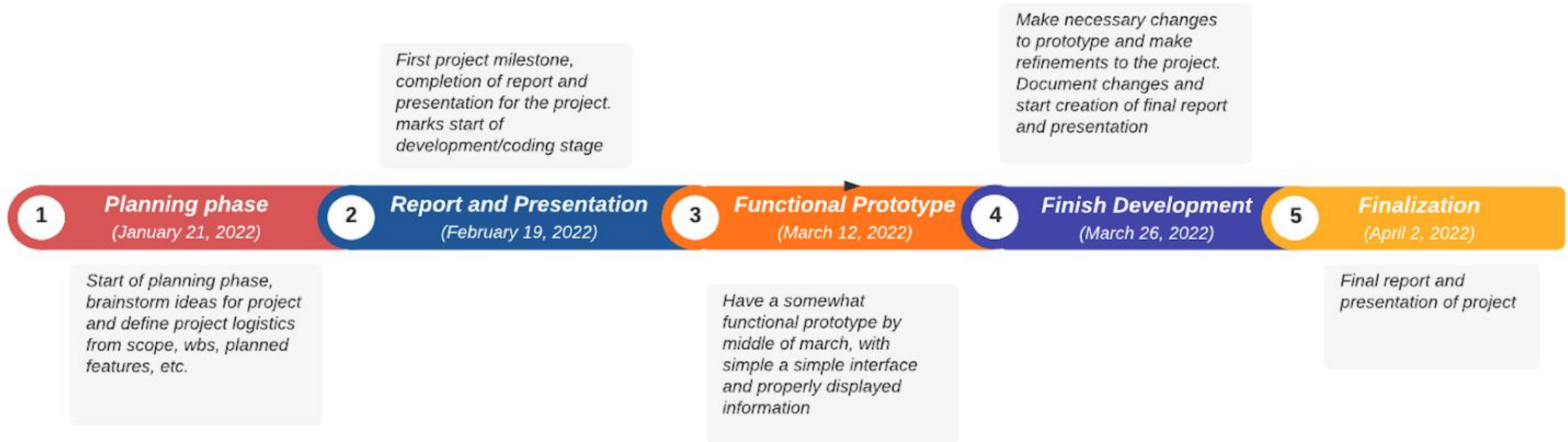
- **3_Weather map api:**

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

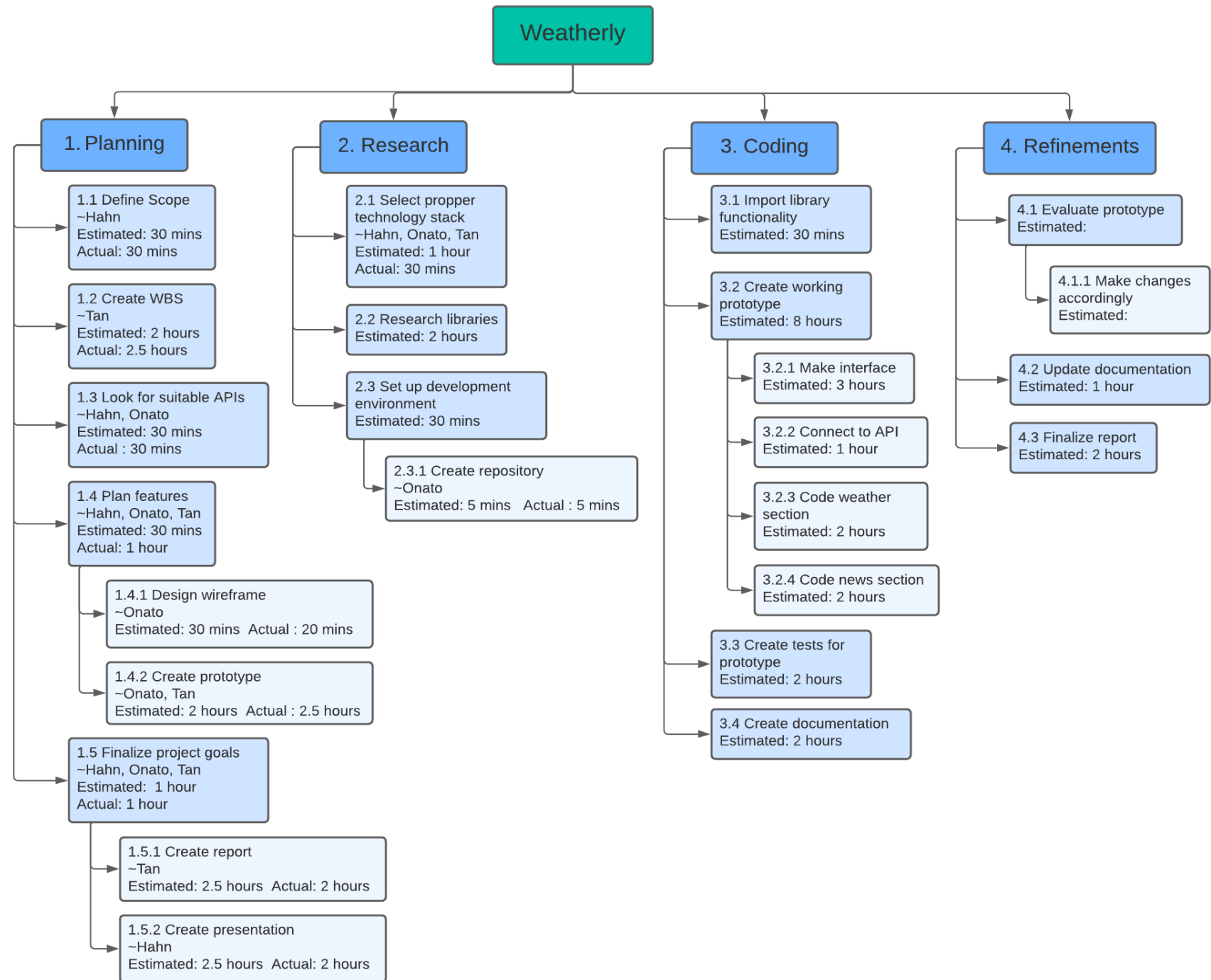
- **4_Weather Statistic api:**

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

Project schedule



WBS



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	Humidity	0°
POP	5%	Humidity	UV	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°



WEATHERLY

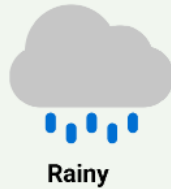
[Weather Forecast](#)[Weather Map](#)[Weather Statistic](#)[Weather News](#)

 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



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Weatherly

Vancouver, BC ▾

8

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3 pm



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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 Peck, ABC News

Category: General



ABC News

July 26th, 2020

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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 Peck, ABC News

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Data Flow Diagram

