CPSC2350 Group 2 Presentation #2

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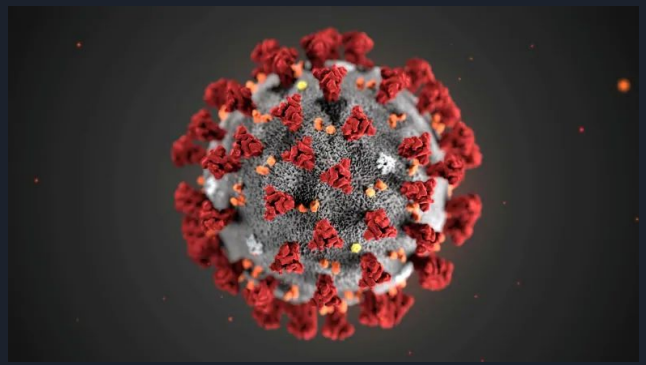
Presentation (30 marks +5 BONUS)

This 10 minute presentation will be done in-class as an opportunity for other students in the class to become familiar with your project. This presentation should include:

- `[2 marks]` Overview of the project
- `[3 marks]` Discuss which APIs you picked and why
- `[5 marks]` Application features (high-level overview)
- `[5 marks]` Overview of CI/CD infrastructure
- `[5 marks]` Project takeaways and challenges
- `[5 marks]` Project demo video (1-2 minutes)
- `[5 marks]` All members of the group speak, presentation quality (spelling/grammar/professionalism/smoothness), ability to answer question and staying within allocated time (8 minutes presentation including demo video + 2 minutes question period)
- `[BONUS +5 marks]` The best presentation voted by other students in the class will receive bonus marks added to their project grade at the end (the max grade for the project is 100%)

Overview

- To create a website for travellers by finding the weather of a city and the covid situation of that country
- Aim to help people decide on where they want to travel by looking at the weather in the city they are travelling to and also seeing if the covid situation is relatively safe or not
- Agile SDLC model with mixture of Scrum + Kanban framework
- Use HTML, JavaScript and CSS to make the webiste and to pull data from APIs using JavaScript



API

- Weather - https://openweathermap.org/
  - temperature, weather description, sunrise-sunset time
  - includes data for every city in the world

- COVID-19 - https://covid-19.dataflowkit.com/
  - includes the COVID data for all countries in the world
  - includes infections, recoveries, deaths, active cases and other data

Application Features (High-level Overviews)

- Weather API features:
  - Temperature
  - Sunrise/Sunset time (Duration of Day)
  - Cloud coverage

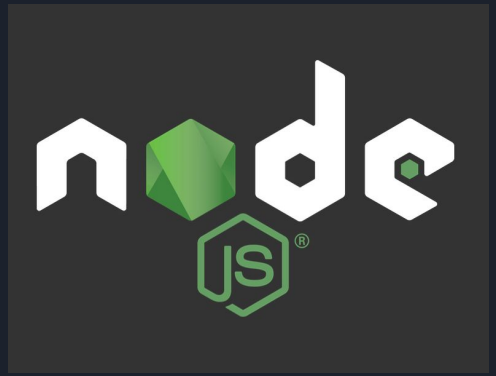
- COVID-19 API features:
  - Active cases
  - Recovered
  - Deaths

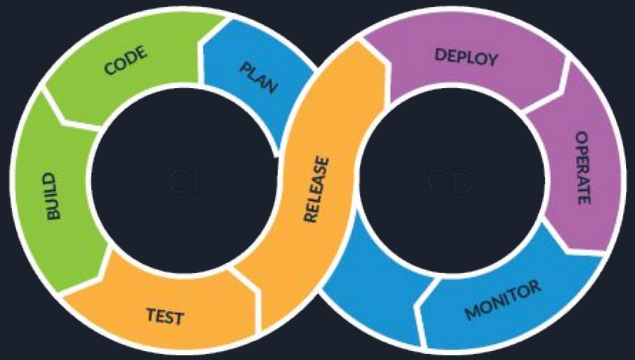
Weather Details

Overall	Clouds
Description	overcast clouds
Day Duration	13 hours
Cloud Coverage	100%
Feels Like	4°C
Temp Min	6°C
Temp Max	7°C
Pressure	1017
Humidity	93
Wind Speed	4.12
Wind Direction	60° ↗

Overview of CI/CD Infrastructure

- Using the Github Action feature, we built the CI/CD pipeline in Node.js environment.
- Seeing pipeline work in real time with live logs
- Any commit or pull request made to the main branch will trigger the action, and it will automatically build and test the file, and run deployment job once the tests are successful.





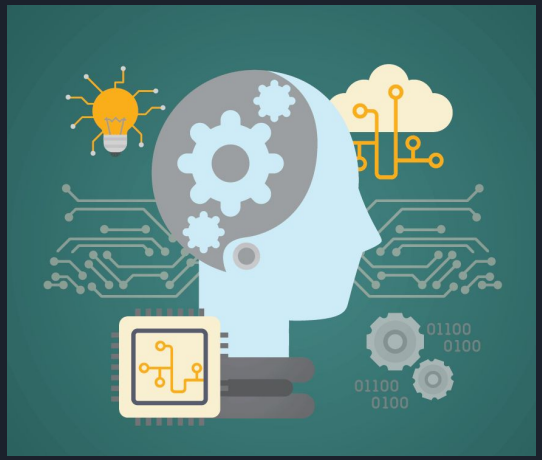
Project Takeaways

- “plans can't keep up with changes”
  - eventually did something different to our plans in milestone #1
  - merging scrum sprint and review session into one day due to busy schoolwork of team members
  - alter wireframe to improve application aesthetically and turned project into actual product

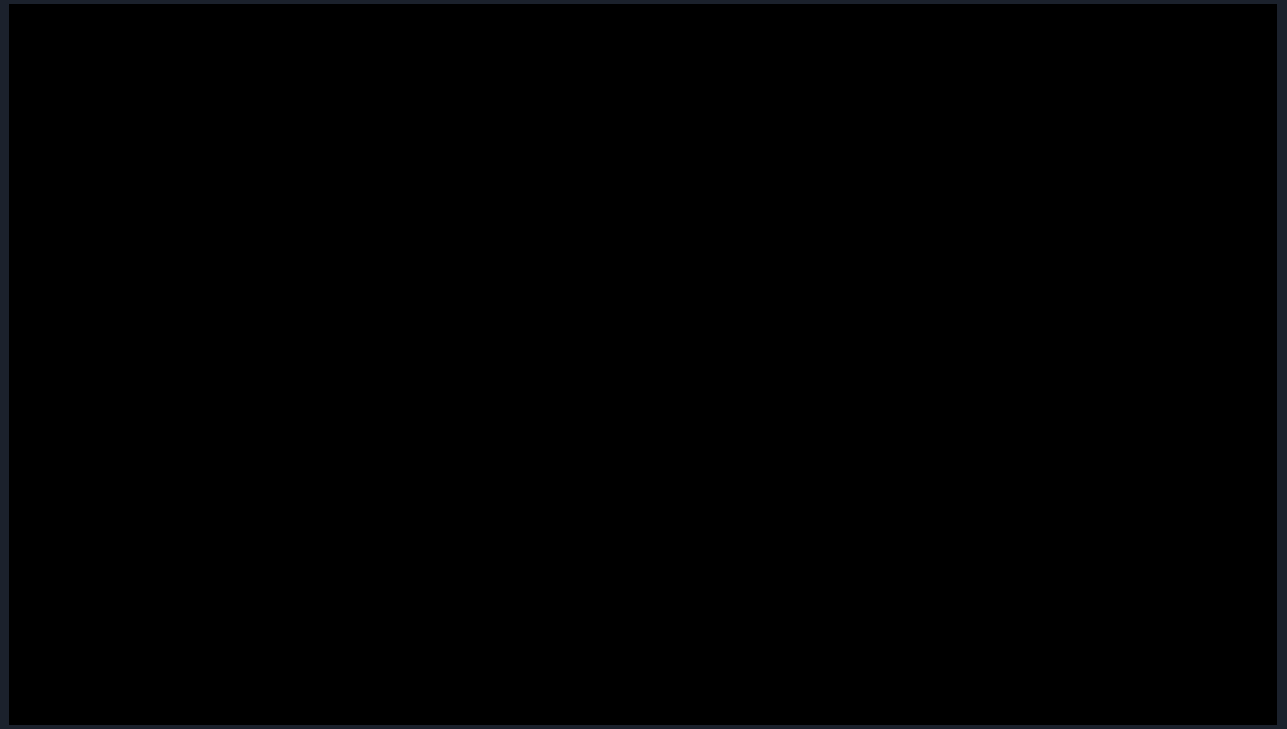
Project Challenges

- Not familiar with code hosting platforms and software practice techniques
  - knowledge learnt through semester were theory-based and was different when we actually implement our own project using these technology stacks
  - actual time spent for these tasks were far more than expected

- Not used to collaborating on GitHub
  - for fear that there might be chances for application to crash when committing changes
  - sometimes we have shared our work to others through Discord instead of GitHub



Project Demo Video



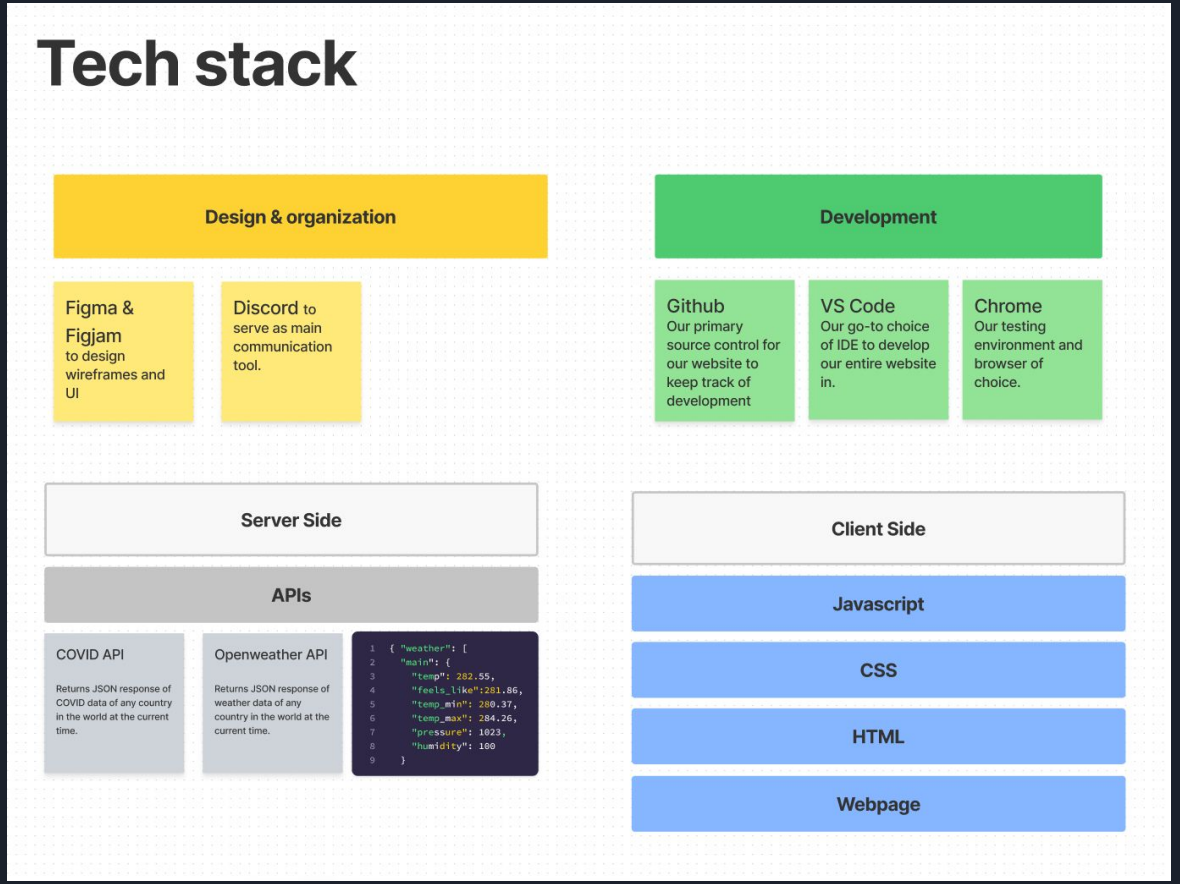
Tech Stack

Consider all aspects of our development process - design → development phase → languages + APIs

To build a website that gives easy glance into the situation of country at the given moment in regards to weather and COVID.

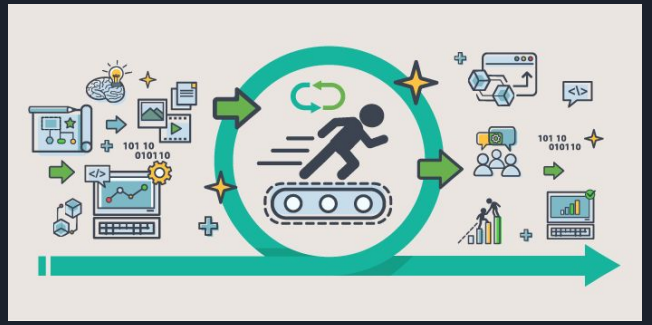
Pull data from a weather API and a COVID-19 API for the selected city → give weather of that city + current covid cases in the country

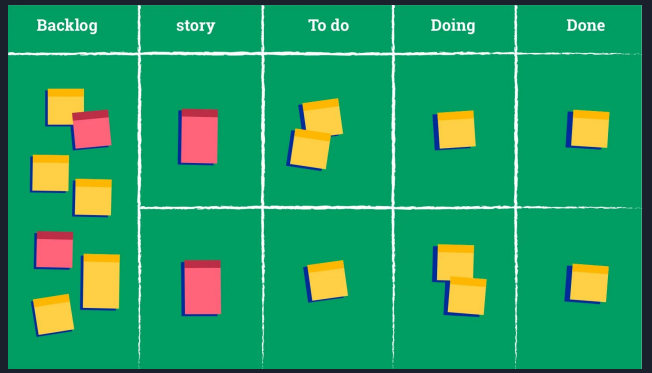
All team members are familiar with using these technology stacks as learnt from previous Langara's courses



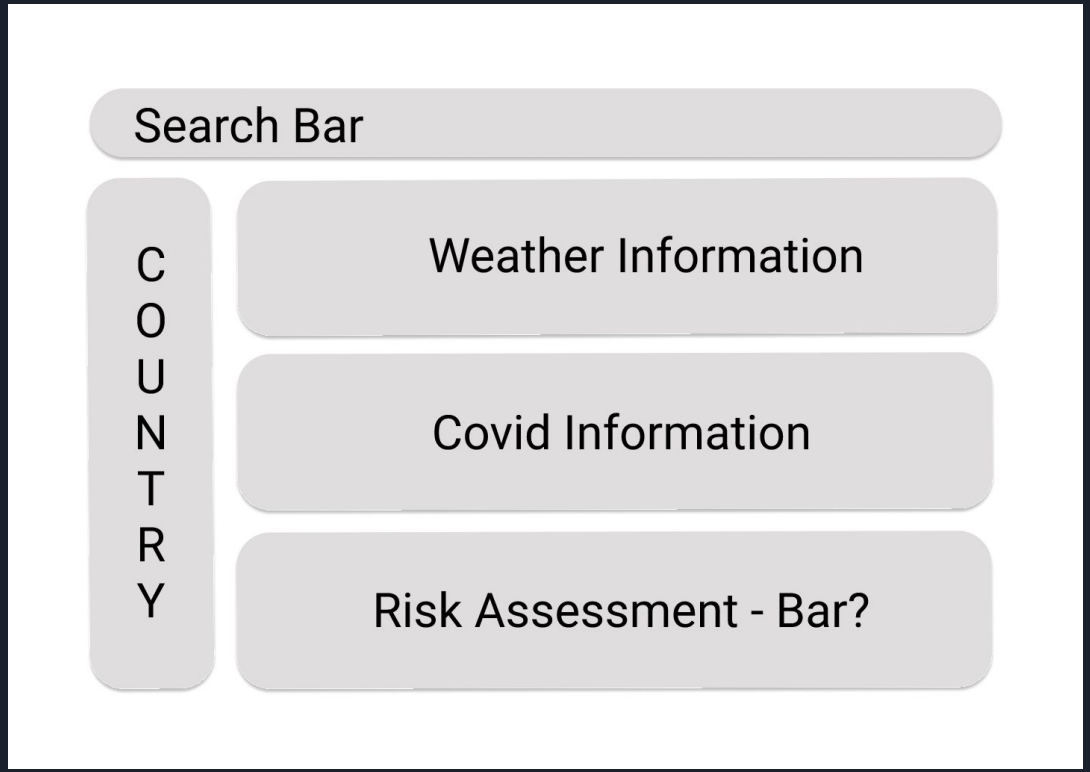
SDLC Model

- Agile (Scrum & Kanban framework)
- Agile is the safest approach to building something tangible given the skills we have. We can keep adding features to our website whilst still having a working product.
- The most leeway in assessing our progress throughout the term and adjusting accordingly - allows week to week changes, decisions, and reviews from the group
- Use a kanban style WBS - more dynamic way of assigning jobs that are better suited for the skill sets

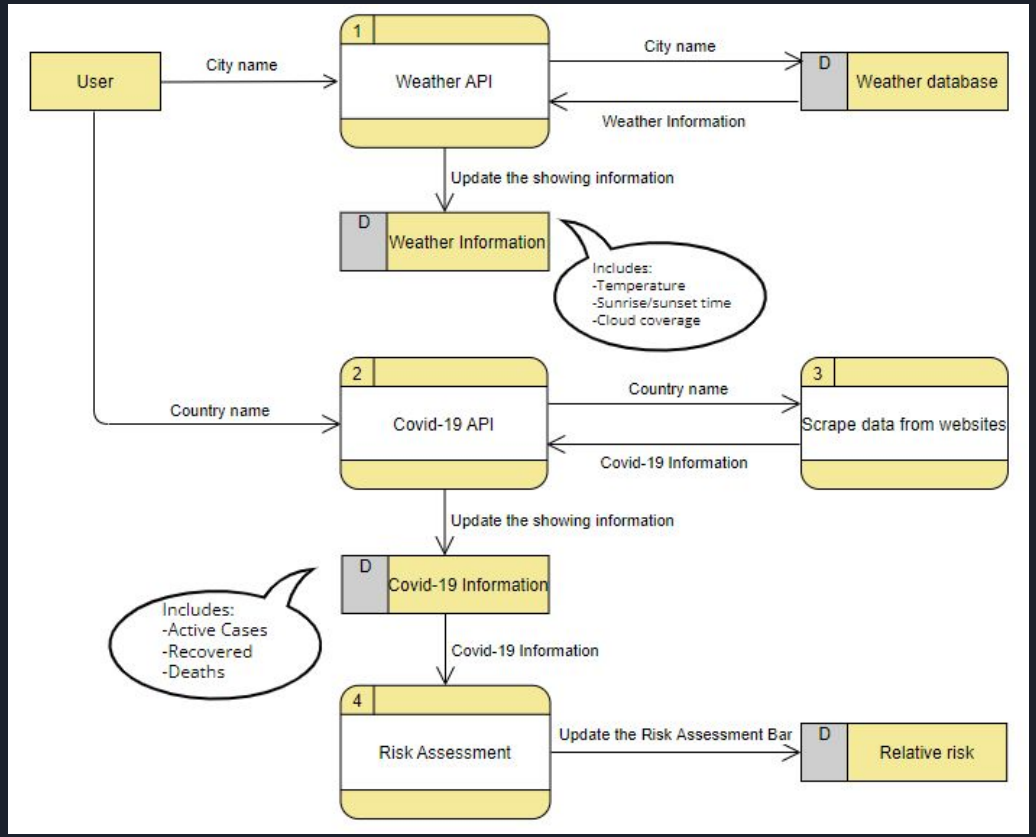




Wireframe


Search Bar
COUNTRY
Weather Information
Covid Information
Risk Assessment - Bar?

Data Flow Diagram



Q & A