Proposal Project 2

Technical

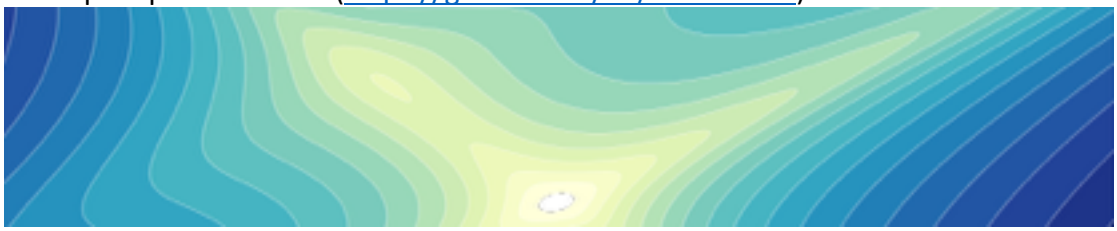
Python Flask powered API which includes creation of API endpoints:
Use Python Flask to get API for weather articles and put into PostgreSQL database.

HTML/ CSS, Javascript website:
Option B:

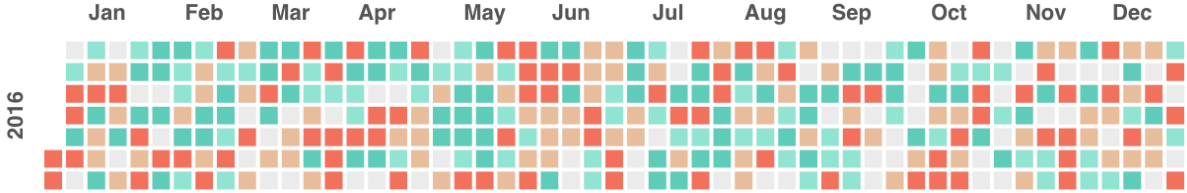
- Home page - UV
- Temperature
- About page

Use at least one new JS library:

- Top map: D3 contour (https://github.com/d3/d3-contour)



- ?Middle: Bar or line graph showing average of last 5 years for one year?
- History visual: Nivo calendar (https://nivo.rocks/calendar) – last year



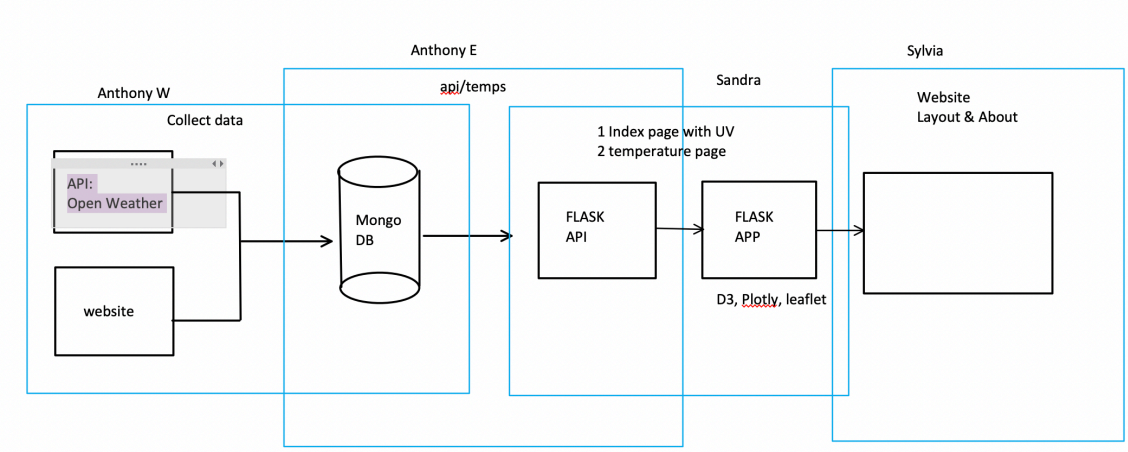
Dataset with at least 100 records:
Weather data for WA will contain more than 100 records. We have different locations and DateTime.

Use user-driven interaction:
Search box & menu with home and about pages

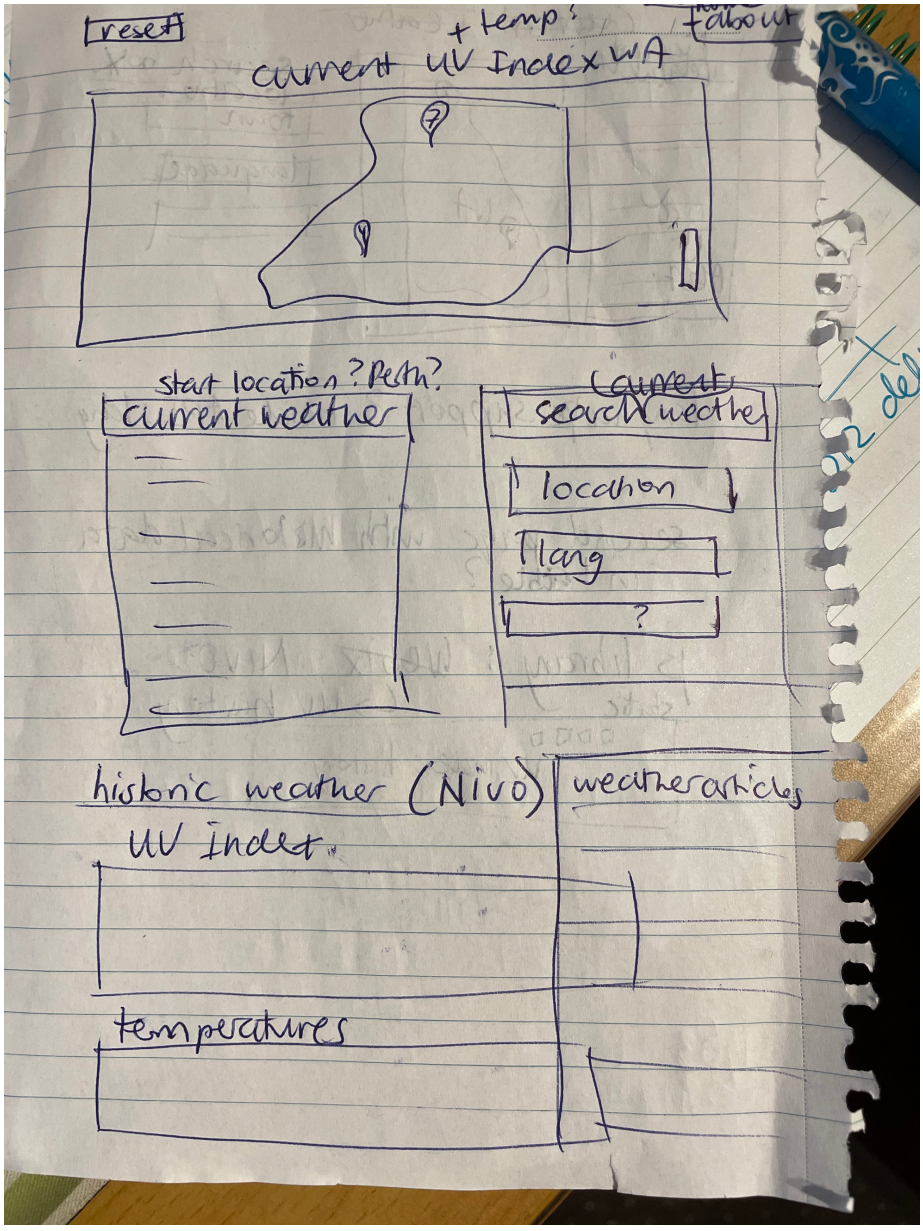
Include at least 3 views:

1. Index page - UV
2. 2nd page - Temperature
3. 3rd page - About page

Work flow chart



Sketch page layout



Presentation

Subject: Provide UV index and temperature information for WA

Questions:

1. Has the UV index increased over time?
2. Does the temperature affect the UV rating?

Data:
Searched for Weather API's. There are a few options but they are mostly paid or free for only a month. We chose OpenWeathermap as it is free and has the UV rating and temperatures available.

Conclusions:

Implications:

Tell a good Story: