Names: Jieying Lin, Hui Wen Weng, Xinyi Ruan

Group Name: The Cruisers

Project Name: Rain Rain Go Away

Used API(s): WeatherAPI.com

https://rapidapi.com/weatherapi/api/weatherapi-com/

List of Applications and Components:

Weather
- List of daily weather for current and future two days (with chart/graph indicating trend)
    - Detail of weather: max temperature, min temperature, UV index etc.
- Past weather of 10 days (with chart/graph indicating trend)
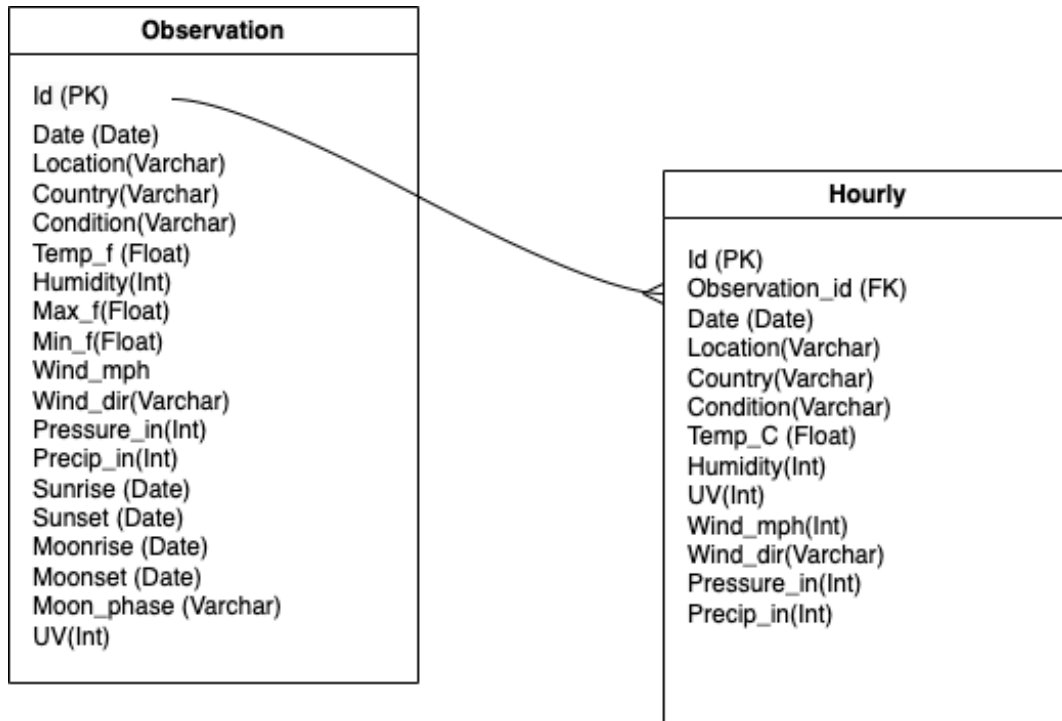- Form to add and edit notes for the current day

Hourly
- Weather conditions for each hour of the next 3 days.
- Chart/graph that displays the weather prediction for the next 3 days
- All hourly weather conditions of the same day will link to the same weather observation
- Search location form that calls the API

Task Breakdown:

Jieying	Hui Wen	Jackie
Authentication	API Connection (Call) /Search location	Design Document
Setup	Design Document	VueJS edit form
Models and database connection	Pandas/Matplotlib data visualization	Add/edit notes to weather
Connecting VueJS	CSS and styling	Unit measure toggle

Database Design:

Observation

- Id (PK)
- Date (Date)
- Location(Varchar)
- Country(Varchar)
- Condition(Varchar)
- Temp_f (Float)
- Humidity(Int)
- Max_f(Float)
- Min_f(Float)
- Wind_mph
- Wind_dir(Varchar)
- Pressure_in(Int)
- Precip_in(Int)
- Sunrise (Date)
- Sunset (Date)
- Moonrise (Date)
- Moonset (Date)
- Moon_phase (Varchar)
- UV(Int)

Hourly

- Id (PK)
- Observation_id (FK)
- Date (Date)
- Location(Varchar)
- Country(Varchar)
- Condition(Varchar)
- Temp_C (Float)
- Humidity(Int)
- UV(Int)
- Wind_mph(Int)
- Wind_dir(Varchar)
- Pressure_in(Int)
- Precip_in(Int)

Frontend Site Map: