Team 4 Project 3 Proposal

Topic:

Examine vacation destinations across California based on hotels, their ratings, and pricing.

Create a dashboard with a drop down menu for 4 largest CA cities, which will dynamically update three charts (using either Chart.js library or Chartkick library):

1. A table that shows the top 5 hotels within a radius of the city (their names, address, and score.
2. The second chart will be a bar chart showing the hotels within a radius of the city and the distribution of how those hotels are rated, on a scale of 1 to 5.
3. A bubble graph depicting the prices for different hotels in a certain radius of the center of a city
4. *Possible add-on: a small map tile that shows the location of each landmark that updates with the dropdown menu*

Datasets:

1. Weather data in landmark locations: https://www.kaggle.com/datasets/thedevastator/us-travel-check-ins-analysis
2. Opentripmap: https://opentripmap.io/product
    a. Use to get landmark data
3. Priceline API: https://rapidapi.com/tipsters/api/priceline-com-provider

Possible Other Datasets:

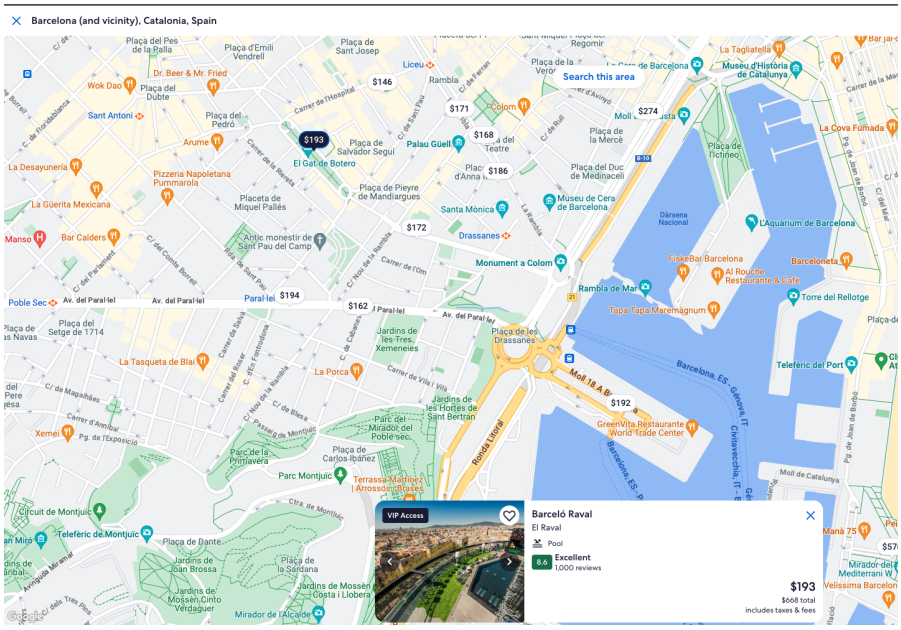
1. Hotels Dataset: https://rapidapi.com/tipsters/api/priceline-com-provider
    a. Use to get pricing for hotels
2. Hotels.com API
3. https://data.ers.usda.gov/reports.aspx?ID=17827
    a. for county population and web scraping
4. Openweathermap: https://openweathermap.org/api
    a. Use to get weather data

Link to project repository: https://github.com/tayloresque/Project3_Group4

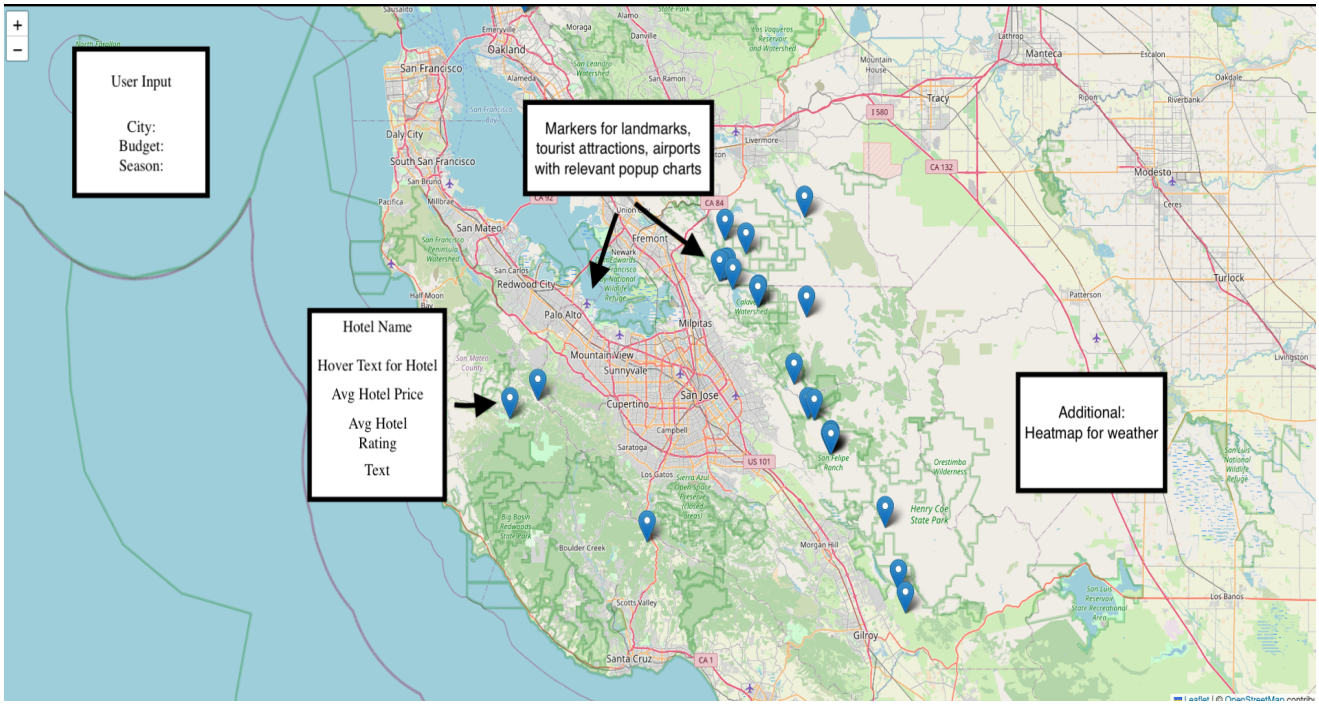
Task Breakdowns:

1. Bubble Graph: Caleigh
2. Flask API: Steph
3. Dropdown Menu, Bar Chart: Taylor
4. Hotel Chart: Alexis
5. Data Wrangling and Database (MongoDB): JongWook


Huntington Park
Mason St.
Small Group
Boutique Wine
Tour with
Tastings
4.8/5
129.00 EUR
Book now!
Grand Hyatt San
Francisco
40% Risk
LGBTQ
Safe
Theft
Slight risk
Medical
Risk
Café de la
Presse
Top 100
St Mary's Square
Harlan Pl.
Mark Ln.
Claude Ln.
Campton Pl.
Grant Ave.
Sutter St.
Cosmo Pl.
Jones St.
Union Square
Geary St.
Derby St.


Barcelona (and vicinity), Catalonia, Spain
Search this area
$146
$171
$274
$193
$168
$186
$172
$194
$162
$192
Monument a Colom
Drassanes
Santa Mònica
Museu de Cera de Barcelona
L'Aquarium de Barcelona
Rambla de Mar
Tapa Tapa Maremàgnum
Torre del Rellotge
Teleféric del Port
Barceloneta
Palau Güell
El Gat de Botero
Parc Montjuïc
Teleféric de Montjuïc
VIP Access
Barceló Raval
El Raval
Pool
Excellent
1,000 reviews
$193
$668 total
includes taxes & fees

Sketch



https://api.geoapify.com/v2/places?categories=accommodation.hotel&filter=circle:140.6833,41.8833,10000&bias=proximity:140.6833,41.88338&limit=20&apiKey=d548c5ed24604be6a9dd0d989631f783

Steps: