Urban Explorer

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Project Aim:

- Use FourSquare API, OpenWeather API, and scrape LA event data to make informed decisions.
- Helps users decide where to go and what to wear by combining location-based search with weather forecasting.
- An Explore page also suggests local events, paired with weather details, for those seeking inspiration.

API and Datascrape

OpenWeather API

- provides weather forecast (**five** days)
  - temperature, humidity, wind speed, a brief weather description
- real-time weather info allows users to determine whether to visit specific locations
- ensuring they are dressed appropriately for the forecasted conditions

static_data > {} weather_data.json > [ ] daily_forecast > {} 1

```
 8        "daily_forecast": [
 9            {
10                "date": "2024-12-03",
11                "temperature": {
12                    "day": 18.25,
13                    "min": 18.25,
14                    "max": 20.74
15                },
16                "description": "scattered clouds",
17                "humidity": 47,
18                "wind_speed": 2.3
19            },
20            {
21                "date": "2024-12-04",
22                "temperature": {
23                    "day": 20.48,
24                    "min": 20.48,
25                    "max": 20.48
26                },
27                "description": "clear sky",
28                "humidity": 31,
29                "wind_speed": 2.64
30            },
31            {
32                "date": "2024-12-05",
33                "temperature": {
34                    "day": 21.16,
35                    "min": 21.16,
36                    "max": 21.16
37                },
38                "description": "few clouds",
39                "humidity": 28,
40                "wind_speed": 2.65
```

FourSquare API

- powers the app's location-based search functionality
- offering users tailored results for their queries
- includes names, addresses, categories, and geographical coordinates
- enables users to explore venues efficiently while benefiting from the integrated weather forecast for informed planning

```
static_data > 📄 foursquare_data.csv
   1    Name,Address,Category
   2    Tilt Coffee Bar,"334 S Main St, Los Angeles, CA 90013",Coffee Shop
   3    Verve Coffee Roasters,"500 Mateo St, Los Angeles, CA 90013",Coffee Shop
   4    Cognoscenti Coffee,"868 S Olive St, Los Angeles, CA 90014",Coffee Shop
   5    Maru Coffee,"1019 S Santa Fe Ave (btwn Violet & Sacramento St), Los Angeles, CA 90021",Café
   6    Stories Books & Cafe,"1716 W Sunset Blvd (at Logan St), Los Angeles, CA 90026",Bookstore
   7    Valerie Echo Park,"1665 Echo Park Ave, Los Angeles, CA 90026",Bakery
   8    Cafecito Organico,"534 N Hoover St (at Bellevue Ave), Los Angeles, CA 90004",Coffee Shop
   9    Spoke Bicycle Cafe,"3050 N North Coolidge Ave, Los Angeles, CA 90039",Café
  10    Document Coffee Bar,"3850 Wilshire Blvd, Los Angeles, CA 90010",Café
  11    Broome St. General Store,"2912 Rowena Ave, Los Angeles, CA 90039",Bakery
```

AllEvents Data Scrape

```
static_data > events_data.csv
  1   Title,Location,Date
  2   Samay Raina Unfiltered — Los Angeles,Aratani Theatre,"Fri, 07 Feb"
  3   3 Day Plant Sacrament Retreat / Divine Purpose,Los Angeles,06-08 Dec
  4   New Year's Eve Los Angeles Club Crawl,TBA,"Tue, 31 Dec"
  5   3 Day Plant Sacrament Retreat / Winter Solstice Ceremony,Los Angeles,20-22 Dec
  6   The 55 Strings Trio • Holiday in Paris,Community Auditorium • Church of Scn of the Valley,"Sun, 08 Dec"
  7   Marina Grozdanovic Internationally Acclaimed Pianist Comes to NoHo!,Community Auditorium • Church of Scn of the Valley,"Sun, 18 May"
  8   Makers Handmade Holiday Market,21800 Devonshire St,"Sun, 08 Dec"
  9   Wags & Walks Holiday Market,Wags and Walks Adoption Center,"Sat, 07 Dec"
 10   Winter Wonderland,3650 W Martin Luther King Jr Blvd,"Sat, 14 Dec"
 11   Los Angeles Breakfast Club Holiday Market,Friendship Auditorium,"Wed, 04 Dec"
```
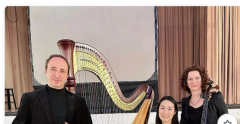

- cater to users seeking inspiration, specifically targeting Los Angeles
- titles, locations, dates
- Example events include art exhibitions and concerts, each paired with relevant weather details