VACRAZE

By: Ashtosh Bhandari, Josh Ilano, Xing Wang

Login Page/Database

- Data Storage is implemented using Google Firebase

- Once you create an account, your information can be accessible across multiple devices.

- Storage of user account information and their corresponding schedule.

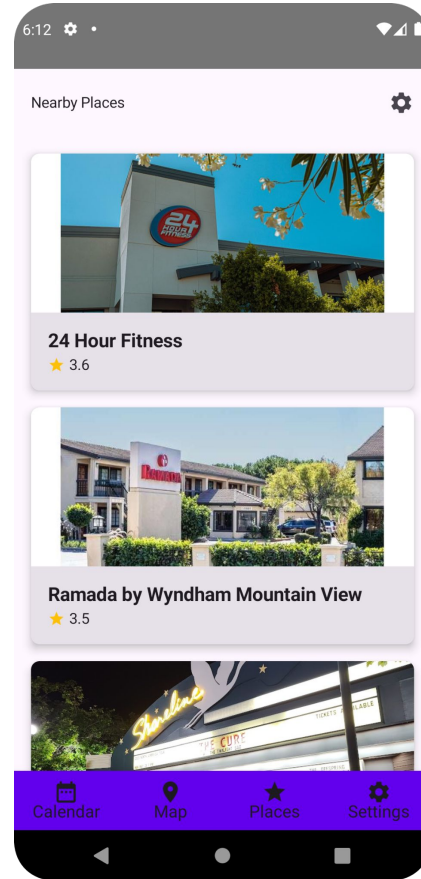☁️ **More in Google Cloud** ⌄

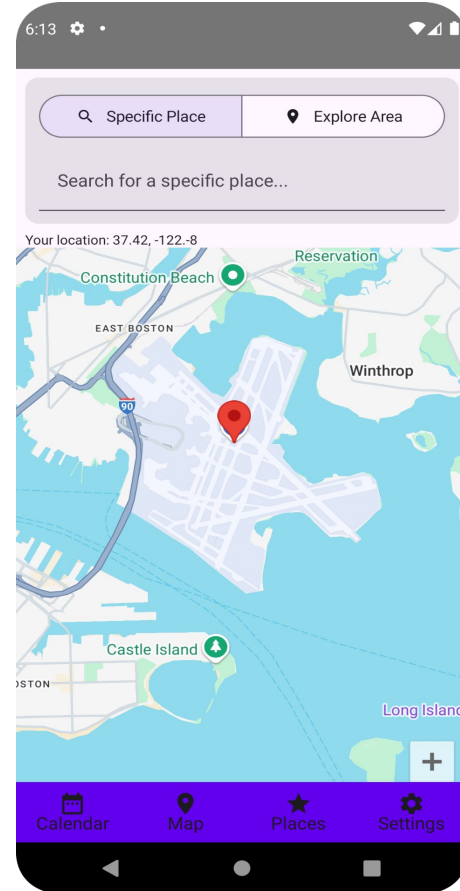| 📄 tWyGFJiuS6OkTxvjECVq... ⋮	📑 events ⚗ ⋮	📄 L01owc3zMcf4WvSwCSOO ⋮
+ Start collection	**+ Add document**	**+ Start collection**
events ❯	⋮ L01owc3zMcf4WvSwCSOO ❯	**+ Add field**
	tfcVlk9ScfvXEGaQ1g92	date: "2025-05-08"
+ Add field		endTime: "22:25"
		startTime: "13:20"
		title: "New Event"

Places Near You

- Using the Google Places API, we are able to retrieve a list of places around a user's current location.
  - Furthermore, upon refresh, a new list of places are generated
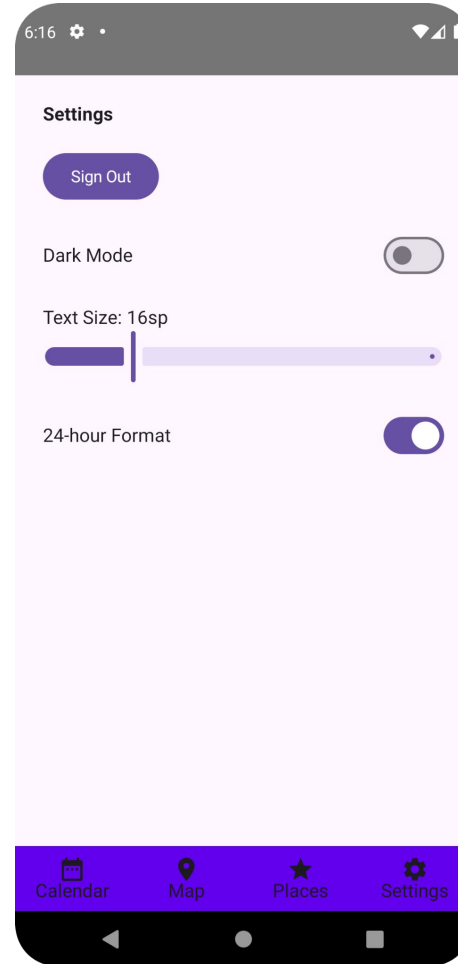
Map Page

- Search functionality: Return a large number of pins based on filter options
    - Specific (City-level)
    - Generic
    - Auto recommendations
    - Automatic Refresh

- Filter:
    - Narrow down our results to museums, restaurants, attractions, and other sites
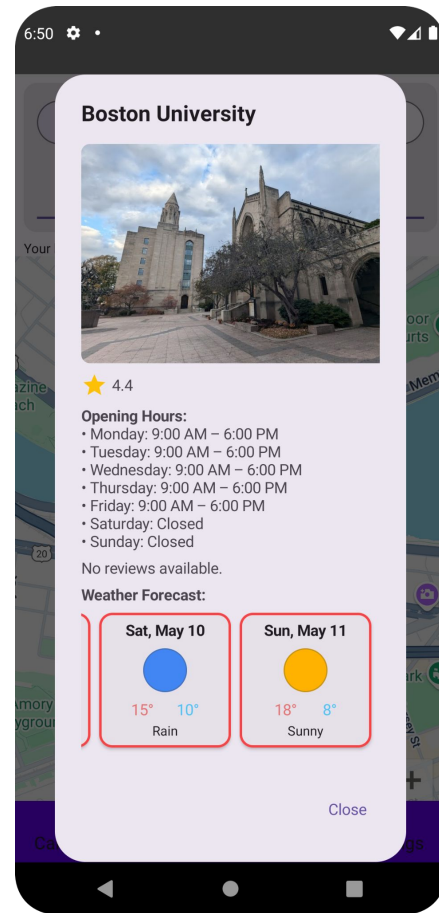
Settings ⚙️

- **Military Time/Local Time (24-hours vs 12-hours)**

- **Change Font Size**

- **Dark Mode vs. Light Mode**

Weather Forecast

- Google Weather API
- Retrieve a 5 day weather forecast displayed through a horizontal scrollable row
- Includes:
    - Date
    - High/Low
    - Description
- Raise warning for rain when adding event to calendar

Challenges Encountered

- Combining the backend with the frontend

- Handling web requests for all the APIs
    - An example is images failing to render on initial startup. This was a general issue we encountered—handling asynchronous exceptions such as 401 errors..

- Overall, this application was very difficult to implement; we overloaded features, which inevitably resulted in us making decisions to omit some other features.

Potential Improvements

1. Itinerary feature (New Itinerary)
   a. Folder of events → better organization
2. Sharing user schedule
3. Further customization of schedule