PROJECT 1: Event Finder

Pd 9 | Safe and Sound | Tina Chen, Edward Luo, Marcus Ng, and Levi Olevsky

PROGRAM COMPONENTS

Search Customization

- Radius (miles)
- Address
- Category (ex: Tech, Finance, etc.)

Google Maps

- Choose location on map
- Only events that match search appear
- If user clicks on event, then display information about the event on a new page

Event Details

- Display information about event (title, description, category)

APIS

- Google Maps
  - Requires API Key
  - Allows user to select a position
  - Display markers
  - Use event coordinates to create a marker for each event
- Meetup.com
  - Requires API Key
  - Events and information

TEMPLATES

Base HTML

- Banner with site name

Map HTML

- Search with filters
  - Radius (miles)
  - Address
  - Category (ex: Tech, Finance, etc.)
- Embedded Google Maps
  - Display markers
    - Your chosen position
    - Nearby events

Event HTML
- DIsplay event information
- Display nearby events

FILES AND FUNCTIONS
app.py
- Instructions for each roots: /map and /event
- show_map() - Embed map in /map route
- show_event_details() - Show details about events in /event

maps.py
- show_map() - Map setup
- change_location() - Change location of user's marker when new position chosen
- display_event(double latitude, double longitude) - Create marker for event at given latitude and longitude
- current_location() - Show events based on current location, returns latitude and longitude

events.py
- filter_events(radius, address, category) - Return list of events that match filter conditions
- get_categories() - Return list of categories categories from Meetup api
- get_event_details() - Returns event title, description, address, etc.
- get_nearby_events(double latitude, double longitude) - Return list of within a one mile radius of the chosen event or position

ROUTES
/map
/event

SITE MAP

/map

NAME OF SITE

Event Filter	About Section
Address Text Input	
Raidus Text Input	
Category Text Input	
Search Button	

EMBEDDED MAP

/event

NAME OF SITE

Return to /map Button

Event Name	Other nearby events
Address	EventName (distance to event)
Event Description	EventName (distance to event)
	EventName (distance to event)

STRETCH

- Show nearby hotels

TASK ASSIGNMENT

Project Manager, app.py: Marcus
HTML + **Bootstrap:** Tina
Google Maps API, maps.py: Levi
Meetup API, events.py: Edward