

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.html

/event.html

SITE MAP

/map

NAME OF SITE	
<div>Event Filter</div> <div>Name Text Input</div> <div>Raidus Text Input</div> <div>Category Text Input</div> <div>Search Button</div>	<div>About Section</div>
EMBEDDED MAP	

/event

NAME OF SITE	
<div>Return to /map Button</div>	
<div>Event Name</div> <div>Address</div> <div>Event Description</div>	<div>Other nearby events</div> <div>EventName (distance)</div> <div>EventName (distance)</div> <div>EventName (distance)</div>

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