



# W200 Project 1

# I Gotta Go!

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*Traveling somewhere  
you are unfamiliar with?*

*Out for the day in the city?*



# Objective and Technologies Used



## OBJECTIVE

To help people not only find a nearby public bathroom but also one in their specific needs, whether it is unisex, ADA accessible or a bathroom with a changing table



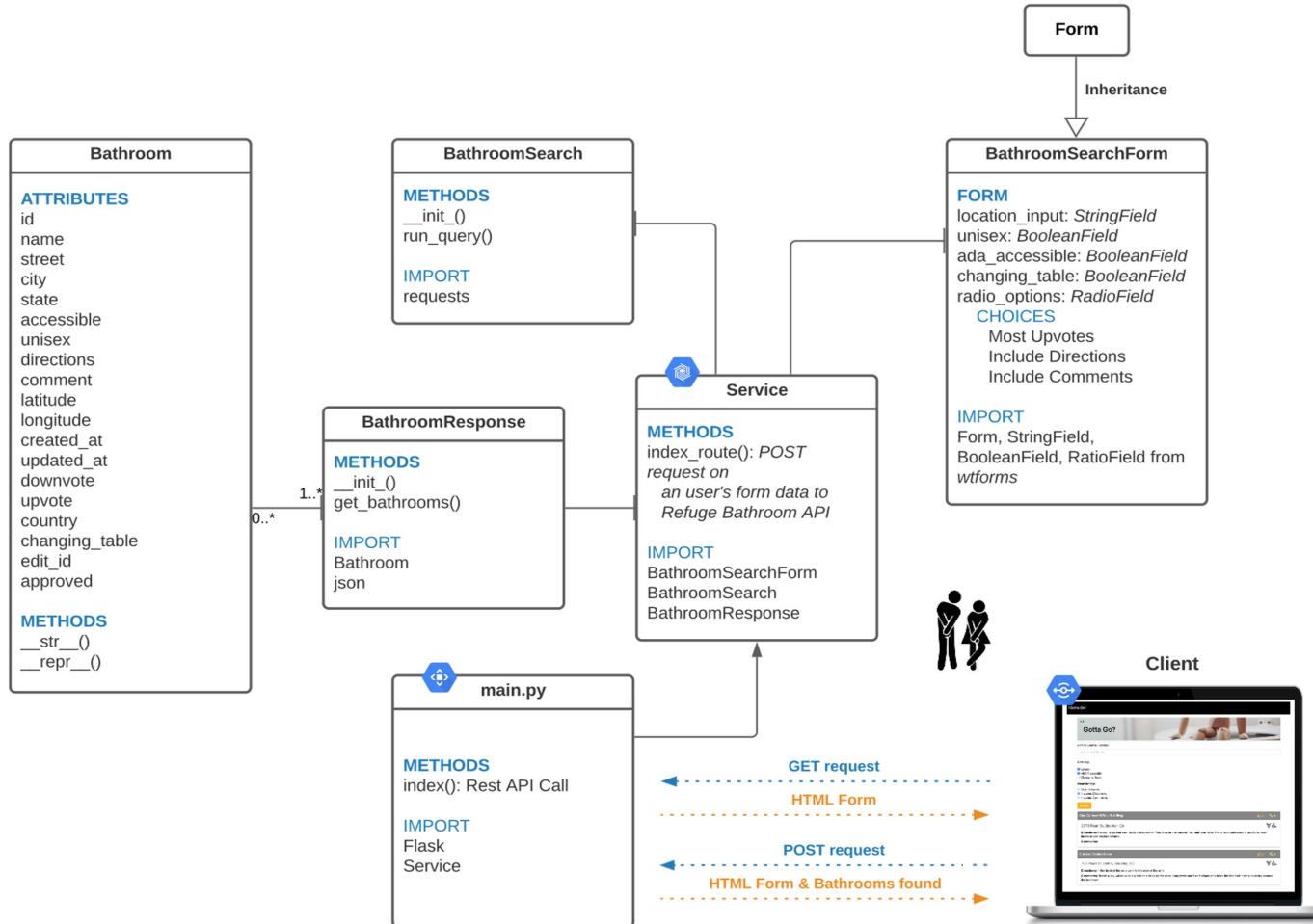
## TECHNOLOGIES

**BACKEND:** Python 3.8 / Flask GUI

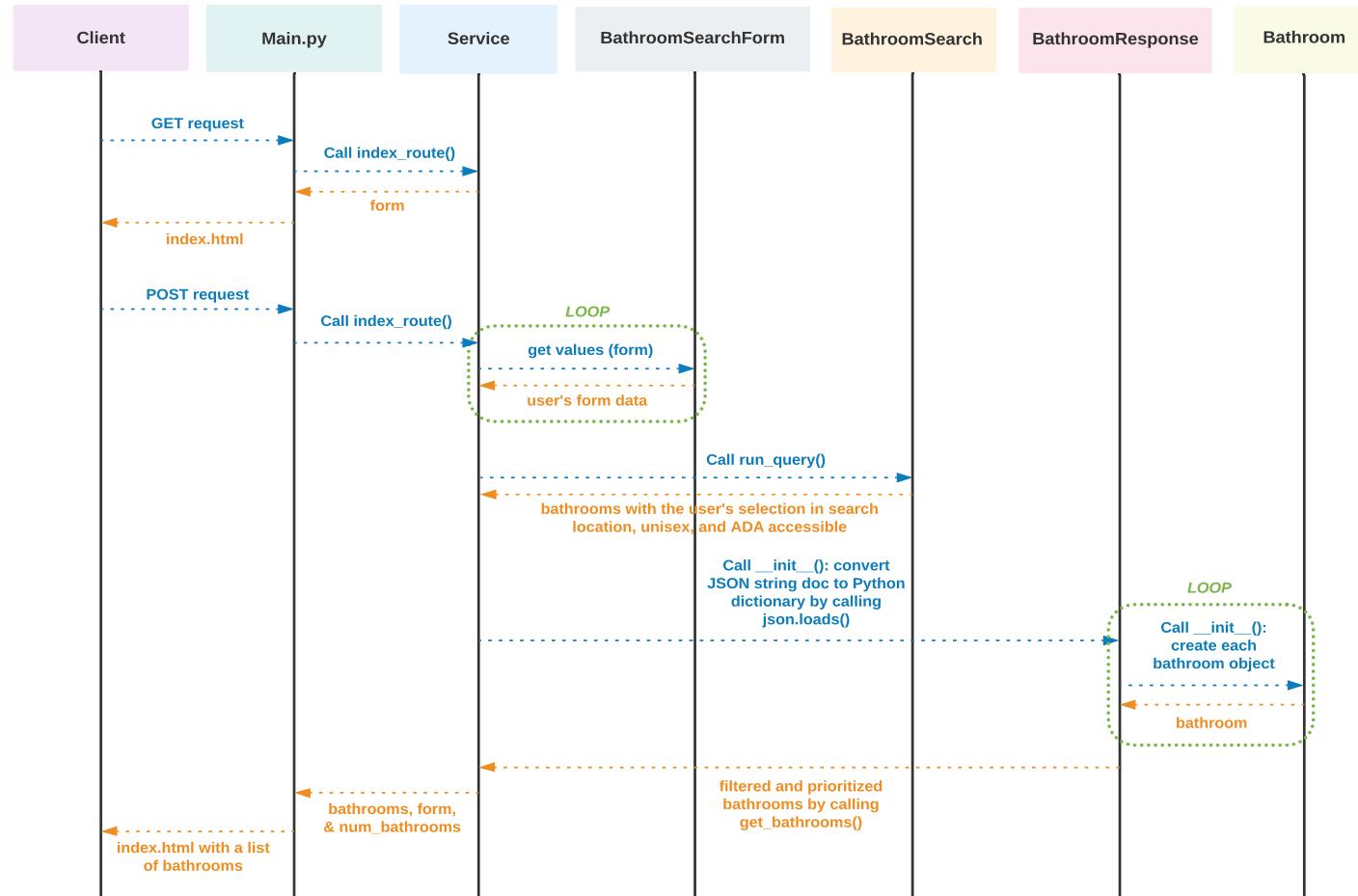


**FRONTEND:** Bootstrap CSS / Font Awesome

# Class UML Diagram

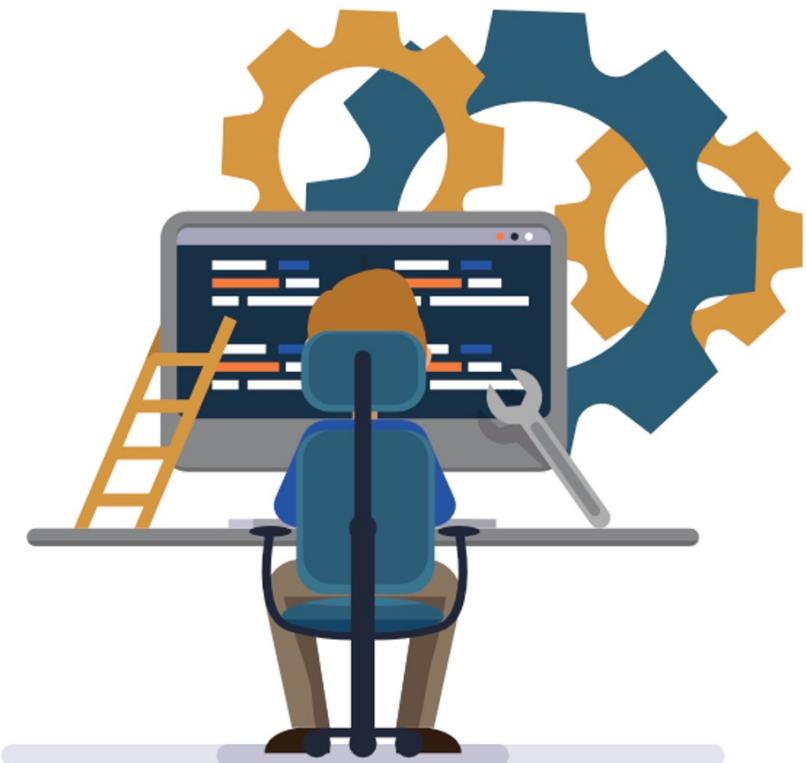


# Sequence Diagram



# Completed Features

- Search for the nearest bathrooms by location text
- Filter a list of the bathrooms by unisex, ADA accessible, and/or changing table
- Prioritize the nearest bathrooms found by the most upvotes, directions to access the bathroom, or comments provided
- Display the available accessibility of unisex, ADA accessible and/or changing table using icons for each bathroom location
- Display the number of upvotes and downvotes with icons
- Sync each bathroom location as a hyperlink that renders a Google map using the latitude and longitude of the bathroom
- Display an error message if the user does not enter a search string
- Display an error message if the request to get bathrooms from Refuge Restrooms API fails





# Challenges Faced



- Python GUI development choosing an optimal Python framework
- Preserving state of the users' selected criteria
- Getting the results from the [Refuge Restrooms API](#) and saving into Python
- Setting up the interactions among every class
- Setting up the state of the backend-frontend interaction

# DEMO

Gotta Go?

## I Gotta Go!

Enter a Search Location  
pearl st boulder co

**Filter By:**

- Unisex
- ADA Accessible
- Changing Table

**Prioritize By:**

- Most Upvotes
- Includes Directions
- Includes Comments

**Search**

**Cox Corner Office Building**  
2575 Pearl St, Boulder, Co  
**Directions:** Elevator is located near back of breezeway. Take it up to the second floor and turn right. Two unisex bathrooms in public hallway between two medical offices.  
**Comments:**

**Spruce Confections**  
767 Pearl St, Unit B, Boulder, CO  
**Directions:** In the back of the courtyard to the east of the cafe  
**Comments:** Needs a key, which is on a whisk on a hook by the door. Employees don't care about who takes the key and there's no policy around the bathroom.

**Wonder**  
946 Pearl St, Boulder, CO 80302, Boulder, Colorado  
**Directions:**  
**Comments:** Helps to be a customer, but not required as long as you're polite and respectful.

