

## Software Design - Assignment 3

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For this project, our team worked on a Web App using Flask that takes a place name or address as input and returns the nearest MBTA stop and its wheelchair accessibility information. First, the App accesses the geographical data through MapQuest API to get the location's latitude and longitude. Then, the latitude and longitude are passed to MBTA using MBTA-real-time API to search the nearest MBTA stop and its wheelchair accessibility status. If the search does not work, the error page will be presented with a "back" button to go back to the home page. From the Flask package, we used the following modules: request, render\_template, session, redirect, and url\_for.

The project went well when we accessed the latitude and longitude data from MapQuest and obtained the nearest MBTA stop and wheelchair accessibility information using MBTA-real-time API. However, we encountered hardships in creating the Web App page using Flask, which took us so long that we did not have time to improve upon our Web App's user experience. We think one thing to improve upon is to ask the user for more detailed input, for example: asking for the address, city, and zip code so that the output will always be accurate in terms of the location. We believe we had a good plan for unit testing. And we did plenty of self-studying for Flask. We read the flask document a few times and tested out its sample code. We also studied the session module from Flask on our own, which helped us to pass on our variables between different routes. In general, we wish we would know more about the GET and POST methods before we started this project.

The team experience was wonderful because we were both hard-working and devoted to work together as a team. We planned to always pair program together and this is how this actually happened. There was no issue that arose while we work together because we communicate efficiently and help each other out at every step, which made sure that we are always on the same page. We believe we have found a balanced team working dynamic so we would use the same setup next time.