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Creating Tech Savvy Entrepreneurs

Professor Li

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### **Final Project Reflection**

This project takes in a location from the user and outputs the closest station and stop on the MBTA line as well as its wheelchair accessibility information. This program takes the API from MapQuest API to give the latitude and longitude of the location the user enters, and API MBTA to get the MBTA stops accordingly as well as information regarding its wheelchair accessibility. JSON is used to take this data and access it in a clearer and neater format. In order for the information to be displayed in a web app development style, Flask is also used. Flask allows for different pages with different content to be shown such as a form where the user can input the location desired. Flask allows for the user to enter their desired location into the form, submit the form, and access a new page with the location station information. In this project, Python, HTML, JSON, and Flask are used throughout this web app.

As per usual with coding, I hit a few bumps during the creation of this project. This had been my first time using information from an API and using that information to produce a result desired by the user. This had also been my first time using Flask, so there was definitely a lot of learning opportunity within this project. In terms of the process for creating this program, many things went well. First off, when I had hit some bumps in my program where I was confused or really couldn't get it to work, I first started with researching my problem. If after research I was still confused, I reached out to Professor Li as well as my cousin, a software engineer. It was

really beneficial to try to research the things I didn't understand and if I still couldn't understand it, reach out for help rather than suffer in silence. I could definitely have improved by starting this project earlier and keeping a closer eye on the deadline. With more time, my process could have been more in depth with creative elements and more learning opportunities overall. While I am happy with my product, I am hoping to continue this project to further my knowledge.

In order to understand the project and help myself over the bumps, I did some self-studying prior to reaching out for help or even beginning the project. I did research on the JSON format in order to better remember how pieces of information can be extracted since it had been some time since I watched the JSON lecture video. I also did some research on the Flask routing format. Since I had little experience with Flask, I wanted to make sure I understood how to call an HTML file with the correct Flask formatting. I had come into this project with a really good understanding of coding in Python, but since it had been some time since I coded in HTML and I was very new to JSON and Flask, I made sure to do some pre-work to better understand how to complete this project. I can certainly say that I am so glad I had this opportunity to use APIs and learn such helpful skills to create a more useful program!