Assignment 4
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Project overview:

Our project has aligned with the requirements of this assignment. So far, our project can process the addresses and convert it to latitudinal and longitudinal coordinates and return the nearest MBTA stop in one mile. Also, when the nearest MBTA station is more than one mile, our project will tell you that it is out of range. In order to make our work more effective, we link the API into the Flask web app; therefore, user can directly use the HTML forms to request an efficacious output.

Reflection:

I think that it's annoying when API access get denied, the parameters for functions will be empty and we consistently get error message such as list index error. At first, we thought it was errors in our codes but later we found out that it's just the API denial. We solved it by using try & except but we can certainly improve our codes by writing a if else statement to take consideration of the denied access situation.

Also, we got no results for locations with no stations within 1 mile radius and it's annoying as well. We tried to extend to larger radius, but after further investigation in the API document, we realized that distance of stations is not a parameter that can be changed by users.

How to link the HTML with python is another thing we believe we should know before we started on this project. In the second part of our project, we were trying to use one

HTML form to deal with different outputs. However, we cannot solve the problem, and choosing to use two different HTML forms to finish our goal.

In terms of team process, we decided to split the assignment into 2 parts, the first being the code to find the nearest station within 1 mile, and the latter being the server that allows user to enter information and receive output. We believe that it's an efficient way to approach to the assignment and we will do it the same way next time.