

SI 507 Final Proposal

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For the final project, I have two ideas. My first plan is to create a restaurant search engine based on Yelp Fusion (4 challenge score) and Open Table (6 challenge score). I have got the API from Yelp Fusion. I have not got the API from Open Table yet. But I have applied for that. It will give me result in 3-4 weeks which is too long for the final project. I will keep an eye on this API application. My second idea is to create a travel destination and restaurant search engine like a travel agency. As I previously mentioned, I have already got the Yelp Fusion API as my restaurant part. For the travel destination part, I have already submitted the application of Tripadvisor Content which provide traveling plan for users. The Tripadvisor Content needs an API key to use. So, it is worth a 4 challenge score as well as the Yelp Fusion API. For now, I am waiting for two applications.

Data Sources

Yelp Fusion is the main API I will use for both ideas. Here is the API link for Yelp Fusion: <https://api.yelp.com/v3/businesses/search>. For the first idea, I will use Open Table as my secondary API. Here is the link for the Open Table API: <https://dev.opentable.com/affiliate-partners/>. For the second idea, I will use Tripadvisor as my secondary API. Here is the link for the Tripadvisor API: <https://www.tripadvisor.com/ContentSolutions>. As the Yelp Fusion API document said, their data result will be shown in a JSON file. I will check the other two when I got the API access.

Data process

I plan to use Tree to show my data structure. The first idea will start with searching for keywords or zip codes. It will show a list of results related to the search. Users can select the number of list results for further information like what we did in the iTunes project. The second idea will start with asking users what they want to search for, traveling plans or restaurants. If the user wants to get the traveling plan, the system will go to the traveling aspect which is the one part of the tree. Users can type their desired destination for further information. If the user wants to find a restaurant, the system will go to the restaurant aspect which is the same as the first idea.

Data Presentation

Users will type and choose the result in the command line which is the same as the iTunes project. If possible, the result will be shown on a map. But the basic plan will be shown as a list in the shell. For the deep search, it will show as a table.