

Comp 266 Unit 7 – Using External Data Sources: Proposal Review

Recipes on Hand

Data Source to Implement

Idea: Recipe Database using Edamam

Edamam is the most expansive and leading provider of food and recipe data. Their recipe search API includes over 2.3 million recipes that are classified by diets, nutritional facts, and all the info that a *Recipes on Hand* user would require. Tracing back to the personas created in Unit 1, every persona and scenario created require this recipe database to be implemented. Since the dataset has all the recipe data classified and populated with all the important parameters, using Edamam's Recipe Search API is in the best interest of every potential user. Currently the same recipe is being shown of the same burrito in all instances, so the webpage must be improved to support any recipe/ingredient/tool/restrictions that the user searches for.

This implementation will consist of multiple phases. The first step is to access the Edamam Recipe Search API and ensure that the recipe data can be accessed. Next is the incorporation with the existing webpage, which should run search queries on the API using the search bar and search button. The recipe list is currently a static page with pre-defined entries per row and column. This section must be made dynamic to support the results from the search query, and each element must also hold the correct recipe image, title, and description. The most crucial part to implement is to ensure that the queried recipe data is also present inside the recipe page, meaning when the user clicks on the recipe from the list, the structure recipe page is populated with all the relevant data that the user wants to find. In doing this, the html portion must be adaptable to take in varying inputs of different sizes for recipe title, image, ingredients, nutrition, method, etc. The plan is to integrate Edamam's recipe data seamlessly without impacting the other existing features. Based on the scope of the implementation above, it will likely require the use of encoding and decoding the recipe data into JSON to pass between pages, using the URI to encapsulate the encoded JSON data to decode within the page, querySelectors to target the behaviour or adjust the data of certain segments of the page, the use of jQuery selector functions (\$) to integrate recipe data into the placeholders, and likely more.

References

Recipe search API documentation. Edamam. (n.d.). Retrieved February 27, 2023, from <https://developer.edamam.com/edamam-docs-recipe-api>