

Final Project Proposal | CIS 550

1. A List of group members, email addresses, and GitHub usernames

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<https://github.com/zhyuan11/CIS550-Project>

2. A Description of application/website idea

A website that can

1. Recommend suitable recipes according to ingredients, cooking time, nutrition, and a number of steps, name of cook.
2. View people's reviews of each recipe.
3. Recommend suitable pastry recipes with pictures of it according to ingredients, cooking time, nutrition, and a number of steps, name of cook.

3. For each dataset you've chosen:

- a. A 1-2 sentence description of the dataset

- i. The first link, [Recipe Ingredients and Reviews](#), contains two datasets. The dataset is about recipes of pastry food, such as bread, pizza, cake, and cookies. And the second dataset is about their reviews.
- ii. The second link [Recipes and Interactions](#), contains two datasets. The first is about all kinds of recipes. And the second one is about their corresponding users' reviews.

- b. A link to where you found the dataset

- i. [Recipe Ingredients and Reviews](#)
- ii. [Recipes and Interactions](#)

- c. If you're scraping the data, a description of how you will scrape it
N/A

- d. If you're not scraping the data:
- Relevant size statistics (e.g. For a table, mb/gb, number of rows, and number of attributes. For a graph, mb, the number of nodes, and the number of edges.

Dataset	Size of File	# rows	# attributes
Raw interactions	349MB	1125284	5
Raw recipes	350MB	115284	4
Recipes	16MB	18544	10
Reviews	350MB	1616884	4

- Summary statistics of several attributes. (e.g., report mean, standard deviation)

The dataset mainly contains attributes that are string types.
There's nothing regarding the statistics.

4. A list of at least 5 queries (in natural language) you could write for your datasets. Some of these should require complex SQL (aggregations, subqueries, joins, etc).

- Shows all recipes and all ingredients.
- Search recipes by certain ingredients.
- Show all the reviews of a recipe.
- Search recipes by a given range of cook time.
- Filter recipes according to rating.
- Group by the recipes by the nutritions / raw ingredients.
- Join the recipes with their corresponding reviews.