

COMP3900/9900

2022 Term 2

Project 1

Recipe Recommendation System

People tend to have a **limited** set of **ingredients** on-hand with which to prepare their meals. They can often be inexperienced with the **recipe** options that are possible given a limited set of ingredients. This is where **Recipe Recommendation System** comes into play. It should allow a user to supply their available ingredients, and the system should provide the user with a set of recipe options that are possible based on the supplied ingredients.

The developed system should do, at least, the following:

- The system must allow recipe explorers to directly input a running list of their available ingredients.
- **Recipe explorers** must be able to locate the ingredient(s) to input through a list of ingredient categories.
- The system must also assist recipe explorers through suggestions on the next ingredient to input.
- **Recipe explorers** must be able to specify a meal-type (e.g., breakfast, lunch, dinner, entree, main, and dessert) for the type of recipe they are looking for.
- **Recipe explorers** must be able to look through the full details of matching recipes once they have provided their input.
- **Recipe contributors** must be able to contribute complete recipe details. The system must be able to suggest ingredient categories to these contributors.
- **Recipe contributors** must be able to see the most frequently input set of ingredients for which there was no recipe match on the home page.

You need to come up with, at least, eight (8) functionalities including, at least, two novel functionalities with respect to existing related recipe recommendation systems.

Useful Links

1. <https://www.supercook.com/>
2. <https://www.ingredientmatcher.com/>