

# CS 3200 Project Proposal

Team name:

Team members:

## Project Description

Recipe books are great for saving your favorite recipes to refer back to, but are not easily accessible from anywhere. We intend to create a recipe book application that a user can employ to create, retrieve, update, and delete their personal recipes. A user can organize their recipes into different recipe books. They can search for recipes by filtering a book by category (e.g. poultry, dessert, gluten-free etc.) or by using keywords in a search bar. A user may also be able to filter recipes by ingredients that they currently have in their household. We also intend to include a feature where a user can specify the ingredients they already have, and then download a shopping list that contains the amounts of the remaining ingredients they need for a given recipe. Our recipe data will be sourced from our personal recipes in addition to recipes we find online to expand the variety of categories that our recipes fall under.

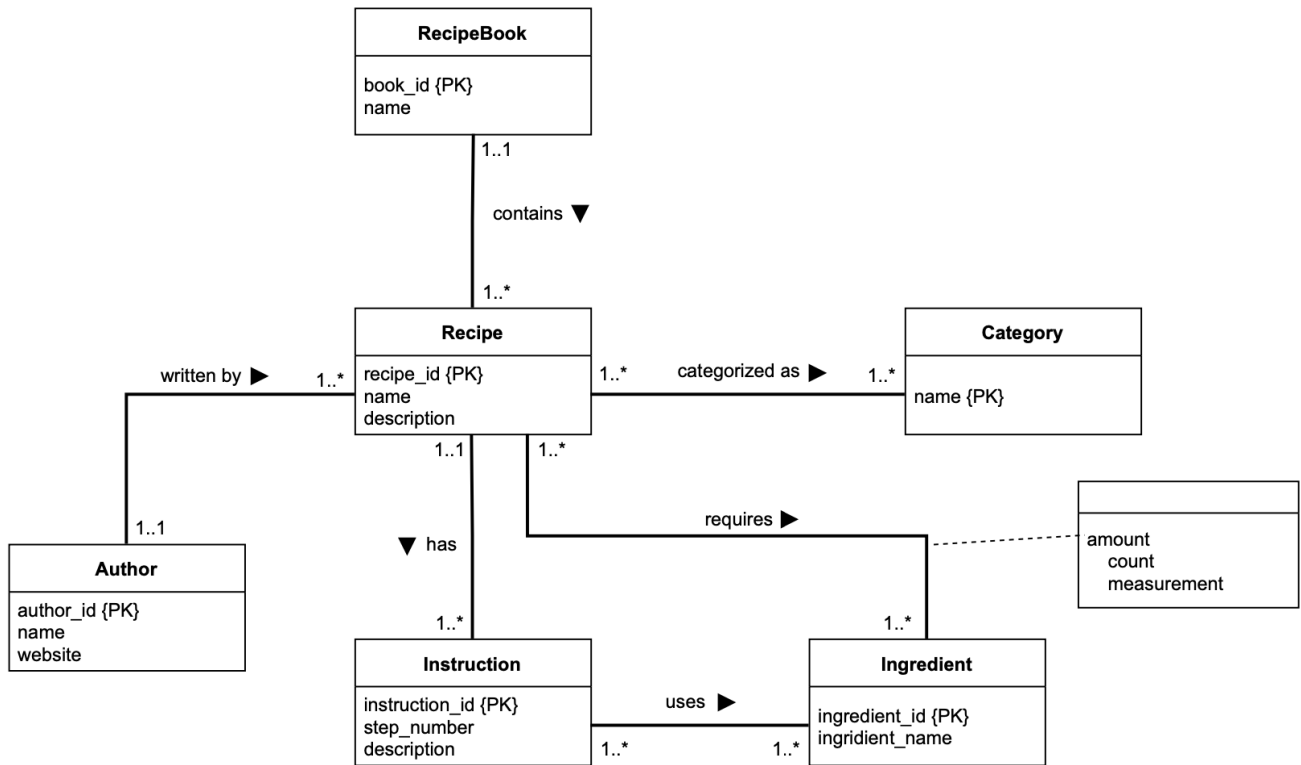
## Software

We plan to use a relational database (SQL) for storage and data persistence in our application. Our database will consist of at least 7 tables that will hold the necessary data needed by our application. Our backend will be a Python app, bootstrapped by the Flask framework. This framework will allow us to better organize and modularize our code for each endpoint. We will use the `mysql.connector` Python library to connect our application to the database. Our frontend will likely use React so that our pages can be stateful (e.g. useful to determine when a recipe is being edited). Our project has no known machine restrictions.

## Domain Interest

We both enjoy cooking, baking, and trying new recipes and think it would be fun and beneficial to create our own recipe book application that we can actually use. We intend to fill the database with recipes of our own and look forward to swapping recipes in the process.

## UML Diagram



# Flow Chart

