CSE 111 Fall 2024: Project Checkpoint 1
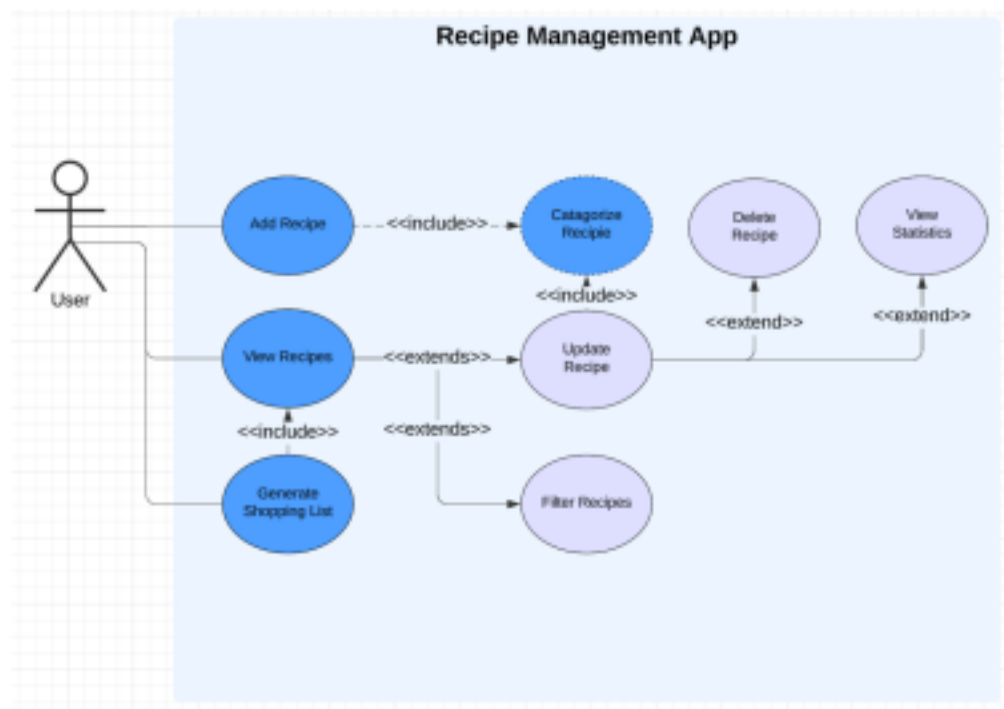
Cooking Recipe Manager
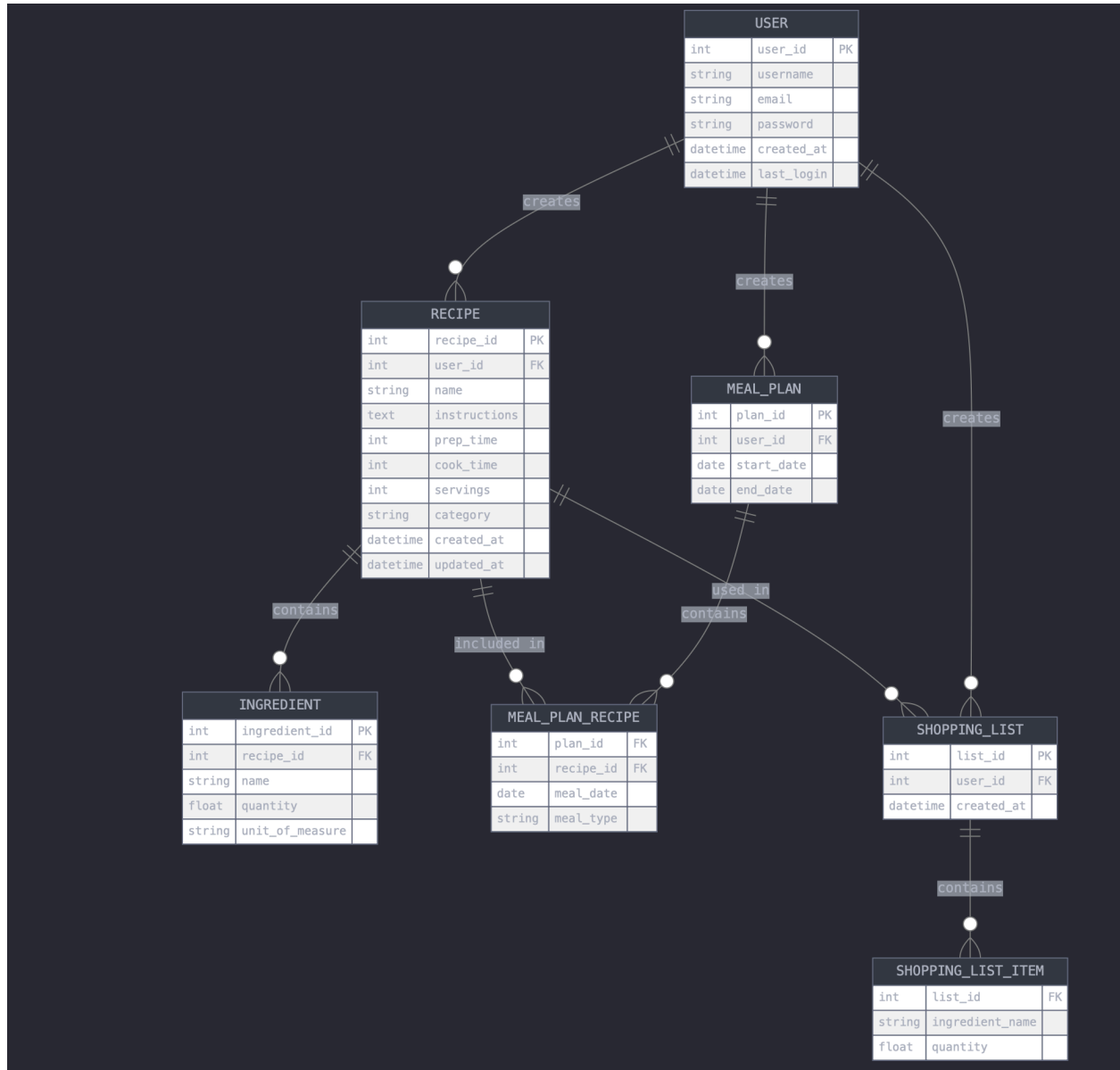
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Synopsis

We want to create a recipe management application designed to help users organize and manage recipes. The system will provide an intuitive interface for users to add, view, update, and delete recipes. Recipes can be categorized and filtered by meal types, and users can generate shopping lists based on selected recipes. Additionally, users can view statistics on the most frequently used ingredients or meal types. The backend database stores all recipe-related data. This project aims to streamline the process of managing recipes and generating shopping lists, offering a user friendly platform for home cooks and meal planners.

UML Use Case Diagram

The user will be able to create new recipes, view existing recipes, and generate a shopping list from recipes. Users will then have more options depending on their initial choice.

ER Diagram

Relational Schema

User(user_id, username, email, password)
Category(category_id, name, description)
Recipe(recipe_id, name, instructions, prep_time, cook_time, servings, category_id, user_id) **Ingredient(**ingredient_id, name, unit_of_measure)
MealPlan(plan_id, user_id, start_date, end_date)
ShoppingList(list_id, user_id, created_at)