UNIVERSITY OF
WATERLOO | FACULTY OF
ENGINEERING

**SE 463: Software Requirements: Specification & Analysis:**

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# Contents

# Abstract

A tool that aids a user in saving money by planning their weekly meals through suggesting recipes that are suitable for their budget and align with their dietary restrictions. Following a personalization process, the users can expect to be presented with recipes that they might like to eat, made using ingredients that fit their budget, with prices from their local grocery store. To aid the grocery shopping process, any missing ingredients for the recipes in their planned meals would be added to a grocery list for the user to follow while shopping.
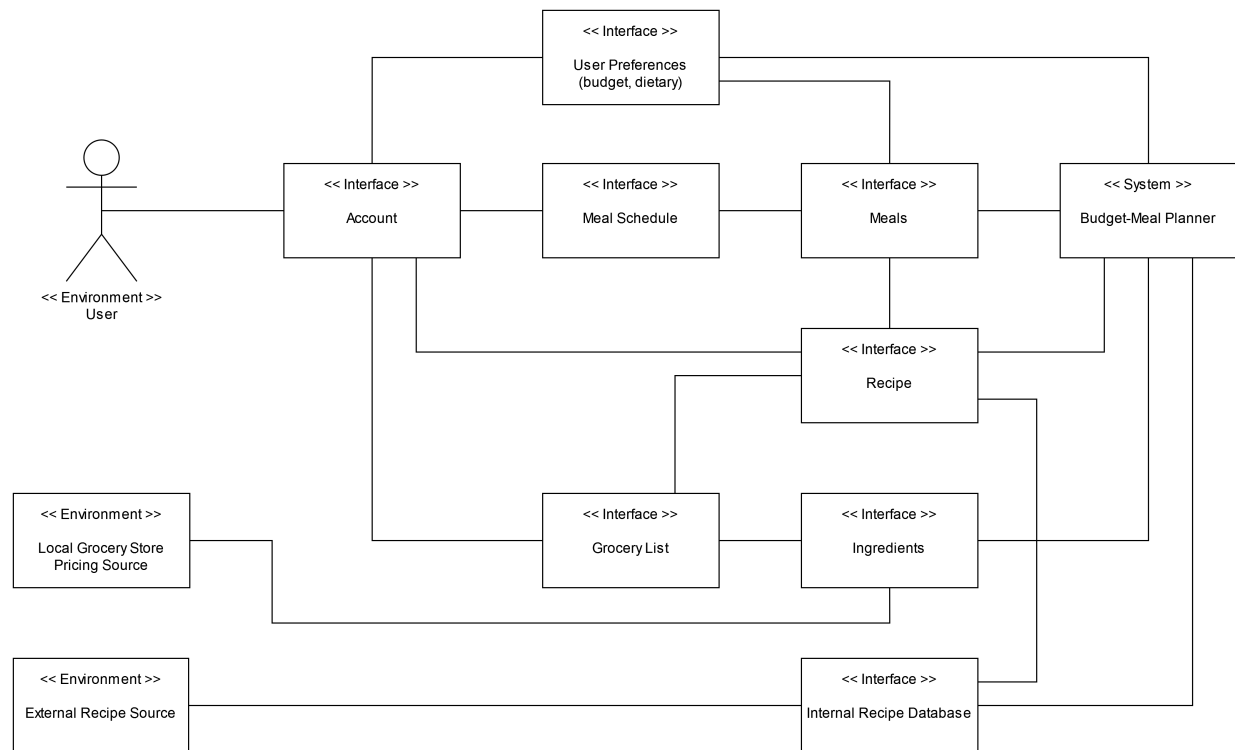
# Domain Model



**Figure 2.1.** *Domain Model with World Diagram Superimposed*
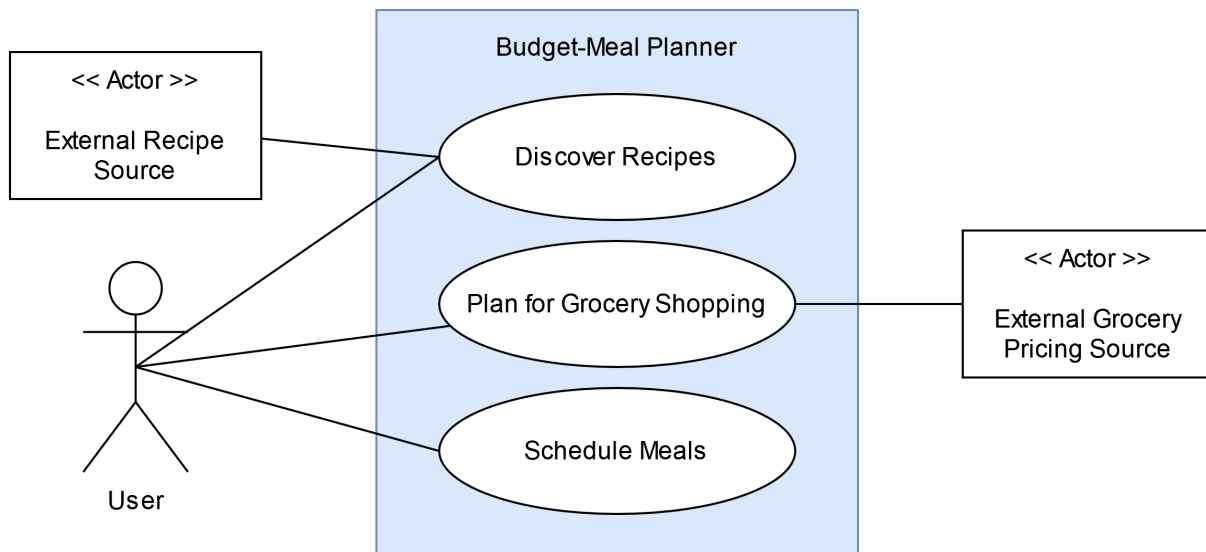
# Use Case Model



**Figure 3.1.** *Use Case Model*

**Discover Recipes**

- Accept the users' login credentials and open their account.

- Ask the user some questions to gather their preferences.

- Present the user with a list of recipes recommended for them.

- Accept a new recipe from the user and save it.

- Suggest alternative recipes, similar to the current recipe displayed.

- Hide a recipe from the user if they dislike it.

- Save a recipe to a "liked" collection for the user if they like it.

**Plan for Grocery Shopping**

- Display the user's current ingredient quantities in the pantry.

- Display the user's grocery list.

- Add all ingredients from a recipe to the grocery list.

- Move ingredients from grocery list to pantry based on what the user bought from the grocery store.

**Schedule Meals**

- Assign a recipe to a meal on a user's schedule.

- Display a user's meal plan (schedule).

# Scenarios

**UC 1: Discover Recipes**

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**UC 2: Plan for Grocery Shopping**

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**UC 3: Schedule Meals**

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# User Stories