

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 40

Name	Student Number	CS Alias (Userid)	Preferred E-mail Address
Alex Dart	93792588	g1r1c	adart075@gmail.com
Griffin Velichko	74979287	w0n1r	griffin.velichko@gmail.com
Anna Friesen	33401860	w5h0a	annafriesen@shaw.ca

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

1. Project Description:

Domain: Meal Planning/Recipe Management

Description: The application allows users to plan meals, create grocery lists, and track their nutritional intake. Users can select from a database of recipes, customize their meal plans for a week, and generate corresponding grocery lists. The system will track recipes, ingredients, user preferences (like allergies and a preferred grocery store), and meal schedules.

2. Aspects of the Domain Modeled by the Database:

The database will focus on:

- **Recipes:** Storing information about recipes, including ingredients, required equipment, and nutritional values.
- **Ingredients:** Each recipe will contain multiple ingredients, and these ingredients will be linked to their nutritional data. Ingredients also belong to grocery lists.
- **Users:** Users can store preferences such as diet type (e.g., vegetarian, keto) and allergy information.
- **Meal Plans:** Users can create weekly meal plans based on recipes from the database or their own custom entries.
- **Grocery Lists:** Based on the selected meal plan, the system will generate a grocery list of all necessary ingredients.

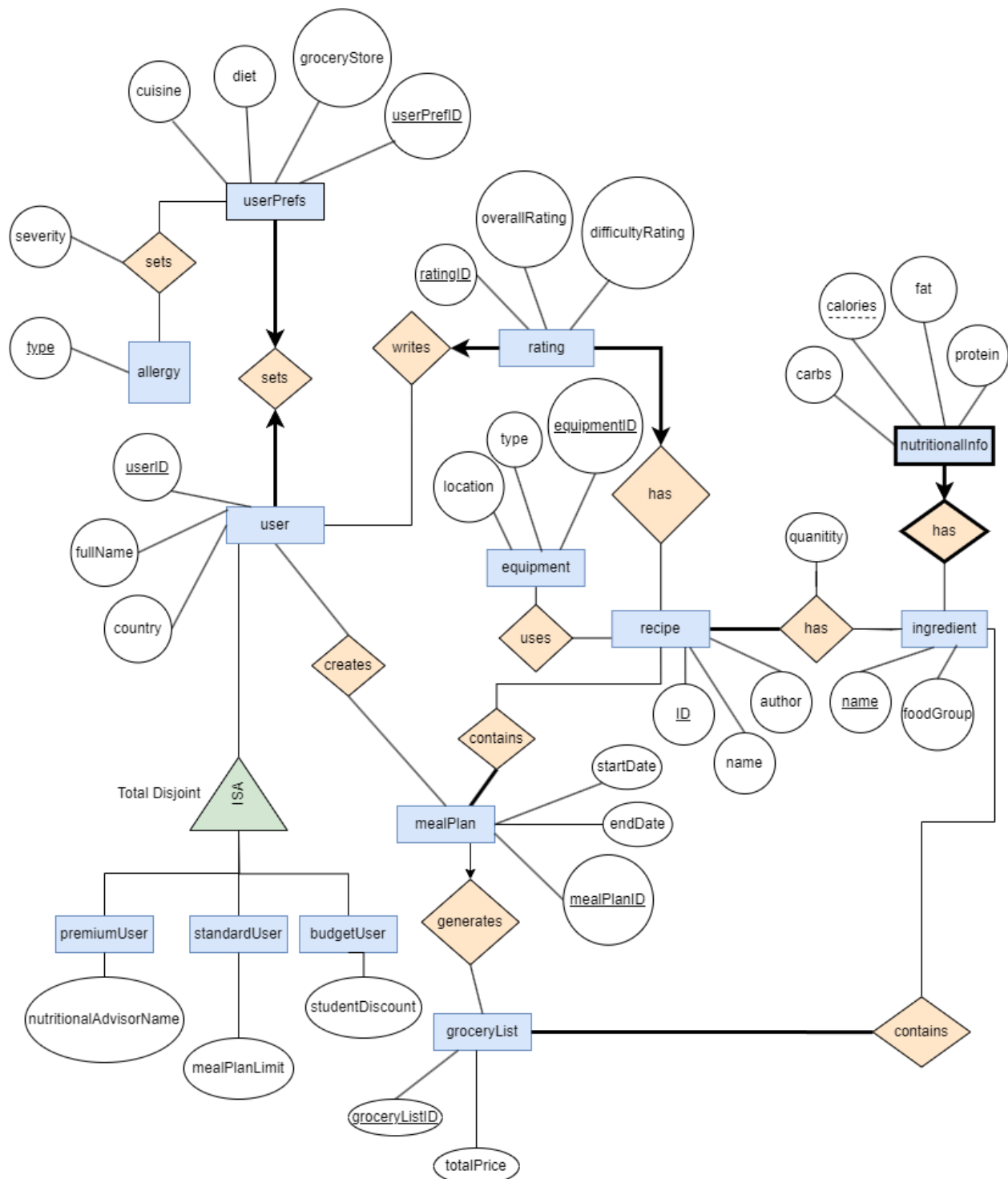
3. Database Specifications:

The database will allow users to craft a unique meal plan for specific timeframes. Users will be able to store and retrieve recipes in a meal plan with nutritional information including fats, calories, and carbohydrates. A grocery list will be generated for each meal plan, and users will be able to add or modify ingredients in grocery lists. Users must be either a standard, premium or budget user, who all have the ability to create ratings for recipes. The users must have preferences as well, which can describe a current diet, favourite cuisine or preferred grocery store, along with their allergies.

4. Application Platform:

- Oracle/Node.js/JavaScript

5. ER Diagram:



6. Other Comments:

- A budget user must be a registered university student to receive the student discount.
- Assume every measure in the nutritional information entity is measured per 100 g.
- Multiple users can be on the same meal plan, and every meal plan must be associated with at least one user.
- Assume that some recipes don't require cooking utensils or equipment.
- We chose Calories to be the supplementary primary key of the nutritionalInfo weak entity since that is the first metric seen on a nutritional info label.
- The allergy entity only has one attribute because one user might have a different severity to the same allergen as another user. To be able to model this without repeats, we decided to have allergy types as entities and allow each userPrefs entity to be related to one or more allergens with varying severities.