CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 52

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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

2a) Our domain focuses on culinary arts, nutrition, and personal meal management. We are creating a web application that allows users to discover recipes, manage their meal plans, and keep track of their grocery needs. Relating to culinary arts, our project will include various cooking techniques, ingredient combinations, and serving suggestions. In terms of nutrition, we will provide nutritional content and health aspects of recipes such as macronutrient/micronutrient distributions. For meal management, users can plan and organize meals and their grocery shopping to maintain a balanced diet for all types of dietary preferences and restrictions.

2b) The database would primarily manage Recipes (titles, descriptions, ingredients, instructions), Ingredients (quantity, nutrition), Users (meal plans, preferences), MealPlans (recipes, meal times), and ShoppingLists (categories), with relationships designed to track which ingredients are needed for which recipes, user preferences, and the composition of meal plans and shopping lists. These aspects are designed to reflect real life where individuals or families meal plan, shop for groceries, and work towards a balanced diet.

3a) These are the key features of our proposed application:

Recipe Database: A collection of recipes with details such as ingredients, cooking steps, preparation time, serving size, and nutritional information. Users will be able to browse this database and find new recipes.

Meal Planner: Users add recipes into a weekly meal planner, organizing their meals for each day and viewing nutritional summaries.

Shopping List Generator: The application automatically compiles ingredients from the chosen recipes into a shopping list, helping users ensure they have all they need for their meal plans.

Dietary Filters: Users can apply filters based on dietary preferences or restrictions, such as vegetarian, vegan, gluten-free, or low-carb options, to find suitable recipes.

User Ratings and Comments: Users can rate recipes and leave comments with their modifications, tips, or feedback for others.

4a) We plan to use Oracle as our database.

4b) We plan to use React, Tailwind CSS, NodeJS, Express.js, Oracle (SQL), and JavaScript to build our application.

5-6) ER DIAGRAM