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Recipe Mobile app

System Requirements

**CSC 545 Database Theory**

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### INtroduction

1. Problem statement

The Client wants us to develop a software application that will manage the collection of recipes, keep track of items that are currently in-stock in the refrigerator, and list major nutrition facts about specific ingredients that will be used in a selected recipe. This system application is also expected to manage a weekly meal plan that will be created by the user, generate a shopping list and allow the user to search for recipes specified by a certain category or ingredient. The client wants this system to be developed and implemented in order to make their life more convenient and allow the client to generate a meal plan that reduces their effort in deciding what to cook every day. Developing this application is expected to allow the client to spend more time on other daily activities and chores.

1. Proposal

We have decided to build an application that will fulfill the needs of the customer. This system shall track refrigerator information and build a shopping list conveniently for the customer to help facilitate and maximize available use of recipes. The system shall provide a base number recipes available to the client. The system also shall allow the client to enter recipes manually, save the information, and include custom recipes in the weekly meal plan. The system shall maintain a weekly meal schedule created by the client and the system shall save this meal plan information to the database to allow access if the client decide to use any previous meal plans. The system shall allow the client to sort recipes based on ingredients, and allow the client to know if they need to purchase any ingredients for the listed recipes. The system shall list nutrition facts for each ingredient to facilitate the decision making process for cooking healthy meals. The system shall allow the client to set meals for all three categories for breakfast, lunch, and dinner and maintain a tentative meal plan for the client.

### System description

We are building a system that will accommodate the needs of the client. The client wishes to be able to spend more time with the family instead of struggling to come up with ideas on what to fix for breakfast, lunch, and dinner. The design also will help the client keep the items in stock so that when it comes time to fix a meal then the client will have the necessary ingredients to complete the task at hand. This system will help the client to make healthy choices and informed decisions when it comes to preparing a proper meal for the family. Management is a necessity for this design, it will assist the user to manage and maintain consistent meal plans. This system is necessary to help improve the quality of life for the client.

### system requirments

1. Functional Requirements

R1. The System shall allow the user to input ingredients and store in refrigerator.

R2. The System shall allow the user to input and save recipes.

R3. The System shall allow the user to create a meal plan for breakfast, lunch, and dinner.

R4. The System shall display nutrition facts about each ingredient and or meal.

R5. The System shall allow the user to set up previous meal plans to use.

R6. The System shall generate a shopping list based on items available in refrigerator.

R7. The System shall allow the user to sort recipes based on available ingredients.

### Er-Diagram

