National University of Computer & Emerging Sciences

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THE ULTIMATE RECIPE BOOK

Project Proposal
Programming Fundamentals
Section: CY-A

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Project Proposal

- ## <u>Introduction:</u>

The Ultimate Recipe Book is a user-friendly C program designed to assist individuals in finding delicious recipes based on the ingredients they have at hand. It simplifies the process of meal planning and cooking by offering a curated list of recipes that match the selected ingredients.

- ## <u>Existing System:</u>

Currently, there are various recipe websites and apps available, but they often require users to input complex search queries or browse through extensive lists of recipes. These platforms do not offer a streamlined way to find recipes based on available ingredients, which can be a significant inconvenience for users looking to make the most of their pantry items.

- ## <u>Problem Statement:</u>

The existing systems lack an efficient and user-friendly way to find recipes based on available ingredients. Users often need to sift through numerous irrelevant recipes, making meal planning a time-consuming task. Our goal is to simplify this process and provide a more user-centric solution.

- ## <u>Proposed Solution:</u>

We intend to introduce a system that allows users to select ingredients from a predefined menu. Our program will then generate a list of recipes that can be prepared using those ingredients. To enhance user experience, we will implement a user-friendly interface and efficient algorithm for ingredient matching. Additionally, we will prioritize recipes based on the number of matched ingredients, ensuring relevance and practicality.

- ## **Salient Features:**

Ingredient Selection: Users can choose ingredients from a predefined menu.

Recipe Recommendations: The program will provide a list of recipes based on the selected ingredients.

Ingredient Matching: Efficient algorithm to match available ingredients with recipe requirements.

Sorting: Prioritizing recipes with the highest ingredient match for user convenience.

User-Friendly Interface: A simple and intuitive interface for ease of use.

Recipe Categories: Allows user to choose between different categories of meals i.e. breakfast, lunch, and dinner.

Cooking Time: An estimated cooking time for user convenience.

- ## **Tools & Technologies:**

Programming Language: C

Framework: None

Operating System: Windows