NORTH SOUTH UNIVERSITY
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

PROJECT PROPOSAL

"Recipe Collection Database"

DATABASE SYSTEM LAB
CSE311L
SECTION: 5

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Group no: 07

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Submission Date :

Introduction:

The project aims to create an easy-to-use recipe platform that offers a wide range of recipes for different diets, cooking skills, and cultural tastes. In today's busy world, people want quick, healthy meal options. This platform will provide simple guides and personalized suggestions, making cooking at home easier and more enjoyable for everyone, from beginners to experienced cooks. It will help users explore new dishes while keeping the process convenient and accessible.

Objective:

The main goal of the recipe platform is to:
- Create an easy-to-use recipe database that suits different diets like vegan, gluten-free, and keto.
- Provide step-by-step instructions for better learning.
- Food recipes are also categorized by breakfast, lunch, snacks, dinner, and desserts.
- Offer personalized recipe suggestions based on users' preferences and available ingredients.
- Encourage healthier eating by promoting home cooking with nutritional information.
- Here users can share, rate, and add their own recipes.

Target customers:

- Home cooks: People who enjoy cooking at home but want fresh ideas and quick recipes.
- Busy professionals: Those with little time who need fast, healthy meal options.
- Diet-conscious individuals: People following specific diets like gluten-free, vegan, or low-carb.
- Beginner cooks: Newbies looking for simple, guided recipes to gain confidence.

- **Food enthusiasts**: Those eager to try global cuisines and improve their cooking skills.

Value Proposition:

Here Users get tailored recipe suggestions based on their dietary preferences, available ingredients, and cooking skill level, ensuring a highly customized experience.The website offers clear, step-by-step instructions guides, making cooking simple for everyone, from beginners to experts.Nutritional information is provided for each recipe, helping users make informed food choices and promoting healthier eating habits.A wide variety of recipes across cuisines, meal types, and dietary needs (e.g., vegan, gluten-free, keto), allowing users to explore new dishes and find exactly what they need.Users can share, rate, and review recipes, contributing to a lively and interactive cooking community.With meal planning tools and an auto-generated shopping list, users can save time on meal prep and grocery shopping. Finally,The platform inspires users to try new recipes, expand their cooking skills, and discover flavors from around the world.

Web Application Features and description :

1. Easy Navigation
   - Simple, user-friendly design to easily find recipes.

2. Recipe Categories
   - Recipes organized by meals like breakfast, lunch, snacks, dinner, and desserts.

3. Personalized Suggestions
   - Recipes recommended based on preferences, diet, and available ingredients.

4. Step-by-Step Guides

- Clear instructions with step by step guide for each recipe.

5. Search & Filters
- Find recipes by ingredients, cooking time, difficulty, or diet type.

6. Nutritional Info
- Each recipe includes detailed nutrition data like calories and protein.

7. Meal Planning & Shopping List
- Plan meals and get a shopping list for ingredients.

8. Reviews & Ratings
- Users can leave feedback and rate recipes.

9. Save
- users can Save favorite recipes .

10. User Contributions
- Users can add their own recipes and interact with the community.

Tools and Resources:

➔ HTML
➔ MySQL
➔ PHP
➔ Web server

Challenge:

one of the main challenge is Building a large, high-quality recipe collection that suits various diets takes effort,Developing an accurate recipe suggestion system based on user preferences and ingredients can be complex.Moreover,Providing correct nutrition details for each recipe is time-consuming and requires reliable data.Lastly,Creating a user-friendly and visually appealing interface that is easy to navigate and understand can require careful design and testing.