**Object-Oriented Programming Lab**

**(2+1 Credit Hours)**

**Project Proposal**

**Project Title: Recipe Finder**

**Submitted by**

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# **Introduction:**

We are developing a recipe finder. A recipe finder is a tool that allows you to search for and find recipes based on specific ingredients, cuisines, or dietary restrictions. You can use a recipe finder to find new ideas for meals and dishes to make at home. Some recipe finders also include features such as the ability to save your favorite recipes, create shopping lists, and get cooking tips and inspiration.

# **Objective:**

* To provide a comprehensive and easy-to-use platform for users to search and discover new recipes.
* To enable users to filter and refine their search results based on various criteria, such as cuisine, dietary preferences, and ingredient availability.
* To suggest recipe alternatives and substitutions based on user preferences and dietary restrictions.
* To provide users with step-by-step instructions and detailed ingredient lists to make recipe preparation easy and straightforward.
* To offer an ingredient list that allows users to easily add ingredients to their shopping list.
* To continually update and expand the recipe database with new and diverse recipes from various cuisines.

# **Problem Description:**

The problem that the recipe finder aims to solve is the inability for individuals to easily find and access recipes that meet their specific needs and preferences. This includes finding recipes that use specific ingredients, cater to dietary restrictions or preferences (such as vegetarian or gluten-free), or that fit within a certain time or skill level constraint.

# **Features:**

**Admin:**

* Admin can manage the users.
* Can manage the stored recipes.
* Also, can add the new recipe to the database.
* Search the recipe according to their available ingredients.

**User:**

* Users can easily sign up and log in to the system.
* Can search the recipe according to their available ingredients.
* Can also view the complete process of selective recipes.
* Have the ability to view the saved recipes.
* The application will provide the cooking time and allow the user to view the serving size of the recipe.
* The application will also provide the nutrient information of the recipe.

1. **Methodology**

A recipe finder is a tool that helps users locate and access specific recipes based on certain criteria. There are several different approaches that a recipe finder can use to identify and present relevant recipes to users.

Users can enter specific ingredients, dishes, or other keywords into a search bar, and the recipe finder will return a list of recipes that match those keywords. This approach can be useful for finding recipes that use specific ingredients or for finding recipes for specific dishes

Overall, the methodology of a recipe finder will depend on the specific features and capabilities of the tool. However, the goal is typically to help users find and access the recipes they are looking for in an efficient and convenient manner.

# **Project Scope:**

The scope of a recipe finder is quite broad and can be used by anyone from beginner cooks to professional chefs. It allows users to search for recipes based on ingredients, type of dish, or dietary restrictions. The results are comprehensive, providing detailed information about the dish and recommendations for possible substitutes. They also provide nutritional information and allow users to adjust the serving size so they can prepare just the right amount of food for their needs. Overall, recipe finders are an invaluable resource for anyone looking to explore new recipes and create healthy meals at home.

# **Tools/Technology:**

1. Apache NetBeans IDE 12.5

2. Microsoft Access.

# **Milestones:**

Reaching a milestone of 250 recipe finder searches marks an impressive accomplishment for the team at Recipe Finder! This powerful search engine tool allows people to quickly and easily discover recipes tailored to their preferences- from dietary restrictions and cuisine preferences to skill level and time constraints. Users are able to explore delicious dishes suitable for any occasion without so much as lifting a spoon. The availability of such a specialized service has made it easier than ever before to access fresh and inspiring meal ideas.