**Recipe App User Manual**

Introduction

The Recipe App is a Windows Presentation Foundation (WPF) application designed to help users manage and view their recipes efficiently. This manual provides step-by-step instructions on how to use the application.

Table of Contents

1. Installation

2. Main Window Overview

3. Adding a Recipe

4. Viewing a Recipe

5. Filtering Recipes

Installation

1. Download the App: Obtain the Recipe App executable or source code from the provided GitHub repository link.

2. Build the Solution: If you have the source code, open the solution file in Visual Studio and build the project.

3. Run the Application: Start the application by running the executable or through Visual Studio.

Main Window Overview

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Features

1. Add Recipe: Opens a window to add a new recipe.

2. View Recipe: Opens a window to view the details of a selected recipe.

3. Filter Recipes: Opens a window to filter recipes based on specific criteria.

4. Recipe List : Displays a list of all recipes added to the application.

Adding a Recipe

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1. Open Add Recipe Window: Click the "Add Recipe" button on the main window.

2. Enter Recipe Details:

- Enter the recipe name in the "Recipe Name" field.

- Click "Add Ingredient" to add ingredients.

- Click "Add Step" to add preparation steps.

Add Ingredient:

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- Enter ingredient details: name, quantity, unit, calories, and food group.

- Click "Add Ingredient" to add the ingredient to the recipe.

4. Add Step:

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- Enter the step description.

- Click "Add Step" to add the step to the recipe.

5. Save Recipe: After adding all ingredients and steps, click "Save Recipe" to save the recipe.

Viewing a Recipe

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1. Select Recipe: Click on a recipe in the recipe list on the main window.

2. Open View Recipe Window: Click the "View Recipe" button.

3. View Details: The recipe details, including ingredients and steps, will be displayed. The total calories are calculated and displayed at the bottom.

Filtering Recipes

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1. Open Filter Recipes Window: Click the "Filter Recipes" button on the main window.

2. Apply Filters:

- Enter an ingredient name to filter recipes containing that ingredient.

- Enter a food group to filter recipes containing ingredients from that food group.

- Use the slider to set a maximum number of calories.

3. View Filtered Recipes: Click "Apply Filters" to see a list of recipes that match the criteria.

Example Workflow

1. Adding a Recipe:

- Open the application and click "Add Recipe".

- Enter "Spaghetti Bolognese" as the recipe name.

- Add ingredients such as "Spaghetti", "Ground Beef", and "Tomato Sauce".

- Add steps such as "Boil the spaghetti", "Cook the ground beef", and "Mix spaghetti with the sauce".

- Save the recipe.

2. Viewing a Recipe:

- Select "Spaghetti Bolognese" from the recipe list.

- Click "View Recipe".

- Review the details, ingredients, steps, and total calories.

3. Filtering Recipes:

- Click "Filter Recipes".

- Enter "Beef" as the ingredient name.

- Set the maximum calories to 500.

- Click "Apply Filters" to see all recipes containing beef and under 500 calories.

**Description of Changes**

**Initial Project**

The initial project was a console-based application for managing recipes. It allowed users to:

* Add recipes with ingredients and steps.
* Display the details of a selected recipe.
* Calculate and display the total calories of a recipe.
* Warn if the total calories exceed 300.

**Changes and Additions**

1. **Graphical User Interface (GUI)**:
   * The console-based interface was replaced with a graphical user interface (GUI) using Windows Presentation Foundation (WPF). This made the application more user-friendly and visually appealing.
2. **Main Window**:
   * Created a main window that lists all recipes.
   * Added buttons to add new recipes, view recipe details, and filter recipes.
3. **Add Recipe Window**:
   * Implemented a window to add new recipes with fields for recipe name, ingredients, and steps.
   * Added functionality to dynamically add multiple ingredients and steps.
4. **View Recipe Window**:
   * Created a window to display detailed information about a selected recipe.
   * Displayed the list of ingredients and steps for the selected recipe.
   * Calculated and displayed the total calories of the recipe.
5. **Filter Recipes Window**:
   * Implemented a window to filter recipes based on:
     + Ingredient name.
     + Food group.
     + Maximum calories.
6. **Data Binding**:
   * Used data binding to dynamically update the UI based on user input and data changes.
7. **Error Handling and Validation**:
   * Added basic validation and error handling for user inputs to ensure data integrity.

LINK TO GITHUB REPOSITORY AND SCREENSHOT SHOWING COMMIT HISTORY

<https://github.com/VCPTA/dis2-prog6221-poe-submission-Lauren49>

