**Part 3 User Manual**

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**Getting Started**

To get started with the Recipe Manager application:

Launch the application.

You will see the main window with various sections for entering recipe details, ingredients, steps, and options for displaying and managing recipes.

**User Interface Overview**

The main window of the Recipe Manager application consists of the following sections:

**Recipe Name**: Enter the name of your recipe here.

**Add New Recipe**: Button to add a new recipe to the list.

**Recipe List**: Displays a list of all saved recipes in alphabetical order.

**Ingredients Section:** Allows you to enter the number of ingredients and their details.

**Steps Section:** Allows you to enter the number of steps and their descriptions.

**Action Buttons:** Includes buttons to display, scale, reset, and clear recipes.

**Output Areas:** Displays the recipe details and total calories.

**Adding a New Recipe**

Enter the recipe name in the "Recipe Name" textbox.

Click the "Add New Recipe" button.

**Managing Ingredients**

Enter the number of ingredients in the "Number of Ingredients" textbox.

Click the "Add Ingredients" button.

Enter the details for each ingredient:

Name

Quantity

Unit of measurement (e.g., tablespoon, cup)

Calories

Food group (e.g., dairy, vegetable)

Repeat the above steps for all ingredients.

**Managing Steps**

Enter the number of steps in the "Number of Steps" textbox.

Click the "Add Steps" button.

Enter the description for each step.

Repeat the above steps for all steps.

**Displaying Recipes**

Ensure all ingredients and steps are entered correctly.

Click the "Display Recipe" button.

The recipe details, including ingredients, steps, and total calories, will be displayed in the output area.

If the total calories exceed 300, a warning message will be displayed.

**Scaling Recipes**

Click the appropriate button to scale the recipe quantities:

"Scale 0.5" to halve the quantities.

"Scale 2" to double the quantities.

"Scale 3" to triple the quantities.

The scaled recipe details will be displayed in the output area.

**Resetting Quantities**

Click the "Reset Quantities" button to reset the ingredient quantities to their original values.

The original recipe details will be displayed in the output area.

**Clearing All Data**

Click the "Clear All" button to clear all input fields and the current recipe.

This will allow you to enter a new recipe from scratch.

**Managing Multiple Recipes**

Add multiple recipes by repeating the steps for adding a new recipe.

The recipe list will display all added recipes in alphabetical order.

Select a recipe from the list to view its details.

The selected recipe will be displayed in the output area.

Example Usage

Adding a Recipe: Chocolate Cake

Enter "Chocolate Cake" in the "Recipe Name" textbox.

Click the "Add New Recipe" button.

Enter "5" in the "Number of Ingredients" textbox.

Click the "Add Ingredients" button.

Enter the following ingredient details:

2 cups of flour (200 calories, grain)

1 cup of sugar (150 calories, sweetener)

0.5 cup of cocoa powder (100 calories, chocolate)

1 cup of milk (150 calories, dairy)

2 eggs (140 calories, protein)

Enter "3" in the "Number of Steps" textbox.

Click the "Add Steps" button.

Enter the following step descriptions:

Preheat the oven to 350°F.

Mix all ingredients in a bowl.

Bake for 30 minutes.

Click the "Display Recipe" button to view the recipe details.

To scale the recipe, click the "Scale 2" button to double the quantities.

To reset the quantities, click the "Reset Quantities" button.

To clear all data, click the "Clear All" button.