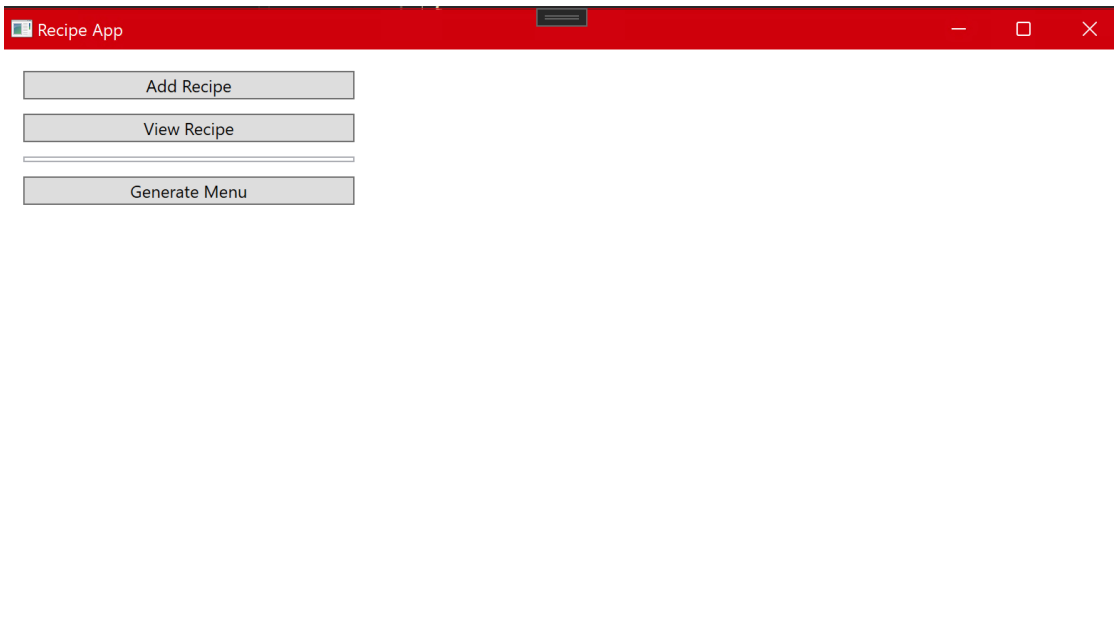


RECIPE APP - USER MANUAL

Matthew Allison - ST10269378

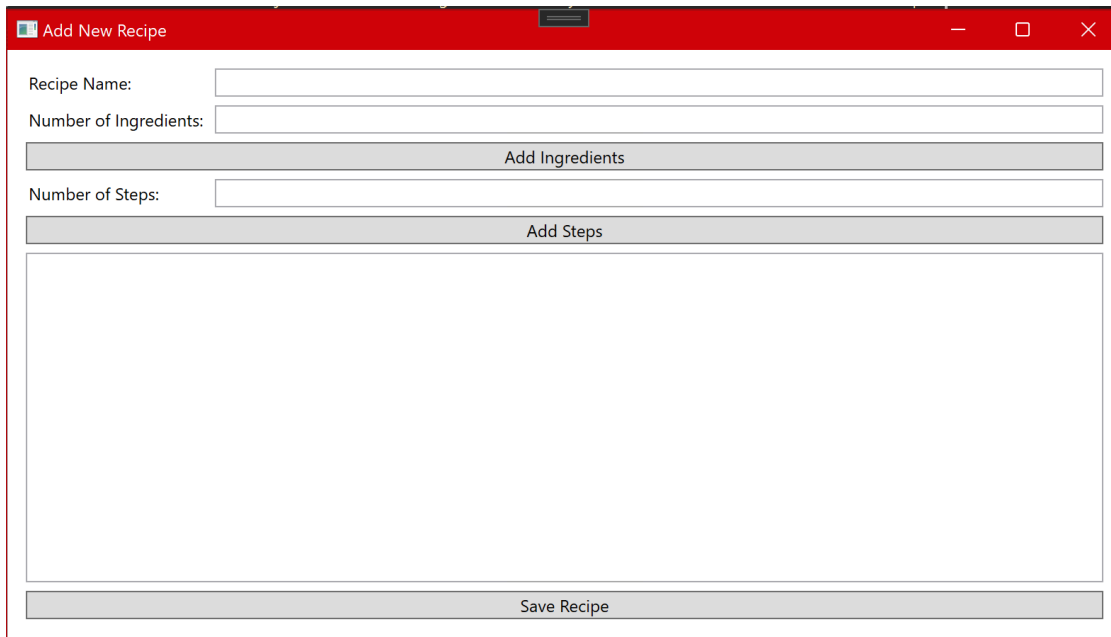
INITIAL HOME WINDOW

Upon opening the Recipe App you are greeted with a simple, mostly empty window. There are 5 elements in this window but only 3 are visible at this point. These elements are the **Add Recipe**, **View Recipe** and the **Generate Menu** buttons. The **Recipe List** and the **Menu Food Group Pie Chart** are not yet visible.



ADD NEW RECIPE

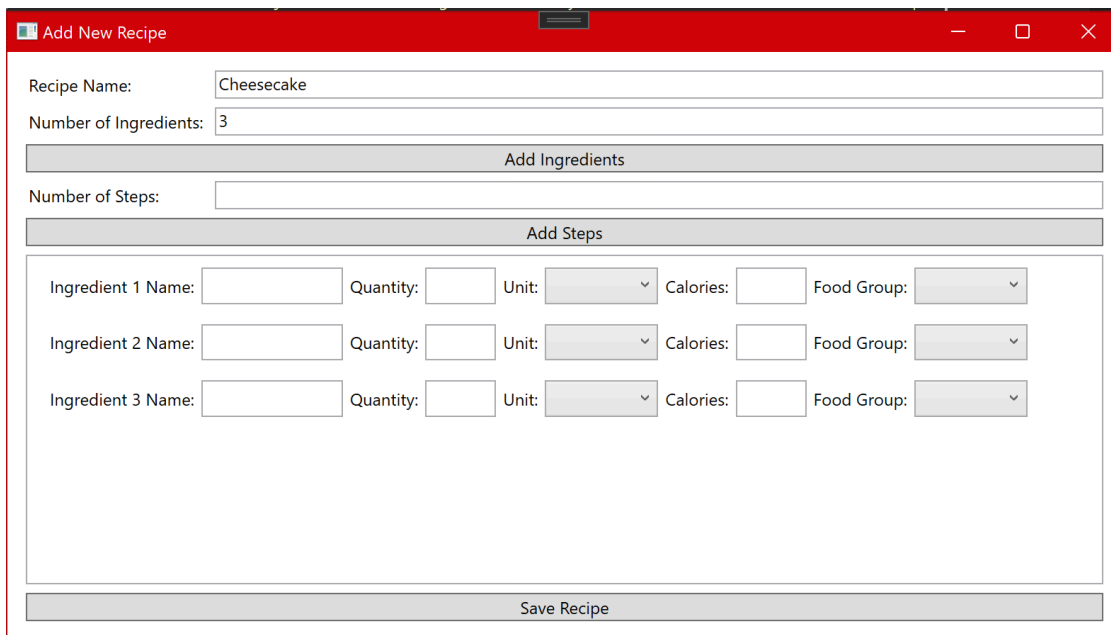
To add a new recipe to your recipe list you simply click the **Add Recipe** button in the **Home** window. You are then greeted with the **Add New Recipe** window. You can start by naming your recipe by filling out the **Recipe Name** input field.



The screenshot shows a window titled "Add New Recipe" with a red header bar. It contains the following elements:

- Recipe Name:** An empty text input field.
- Number of Ingredients:** An empty text input field.
- Add Ingredients:** A grey button.
- Number of Steps:** An empty text input field.
- Add Steps:** A grey button.
- A large empty rectangular area for steps.
- Save Recipe:** A grey button at the bottom.

Next up is the **Number of Ingredients** field. Here you simply enter the number of distinct ingredients that will be needed in your recipe. After entering the number of ingredients click the **Add Ingredients** button. Just like magic that number of rows will appear in the previously large empty space.



The screenshot shows the "Add New Recipe" window after some input. The "Recipe Name" field contains "Cheesecake" and the "Number of Ingredients" field contains "3". The "Add Ingredients" button has been clicked, and the large empty area now contains three rows of ingredient input fields:

| Ingredient 1 Name: | Quantity: | Unit: | Calories: | Food Group: |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Ingredient 2 Name: | Quantity: | Unit: | Calories: | Food Group: |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Ingredient 3 Name: | Quantity: | Unit: | Calories: | Food Group: |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

The "Add Steps" button and "Save Recipe" button remain at the bottom.

Go ahead and fill in the details for each ingredient. It is required that no field is left blank. (This is checked when saving so don't think you will get away with it) You are required to enter an **Ingredient Name**, **Quantity**, **Unit of Measurement**, **Calorie Count** and **Food Group**

The screenshot shows a web form titled "Add New Recipe". At the top, there is a red header bar with the title and standard window controls. Below the header, the form contains the following fields and buttons:

- Recipe Name:** A text input field containing "Cheesecake".
- Number of Ingredients:** A text input field containing "3".
- Add Ingredients:** A wide, light-gray button.
- Number of Steps:** A text input field, currently empty.
- Add Steps:** A wide, light-gray button.
- Ingredient List:** A table-like structure with three rows, each representing an ingredient. Each row has the following fields:
 - Ingredient 1 Name:** "Flour"
 - Quantity:** "4"
 - Unit:** A dropdown menu showing "Tablespoc"
 - Calories:** "60"
 - Food Group:** A dropdown menu showing "Grains"
- Ingredient 2 Name:** "Eggs"
- Quantity:** "2"
- Unit:** A dropdown menu showing "Ounce"
- Calories:** "35"
- Food Group:** A dropdown menu showing "Protein"
- Ingredient 3 Name:** "Milk"
- Quantity:** "4"
- Unit:** A dropdown menu showing "Cup"
- Calories:** "100"
- Food Group:** A dropdown menu showing "Dairy"

At the bottom of the form is a wide, light-gray button labeled **Save Recipe**.

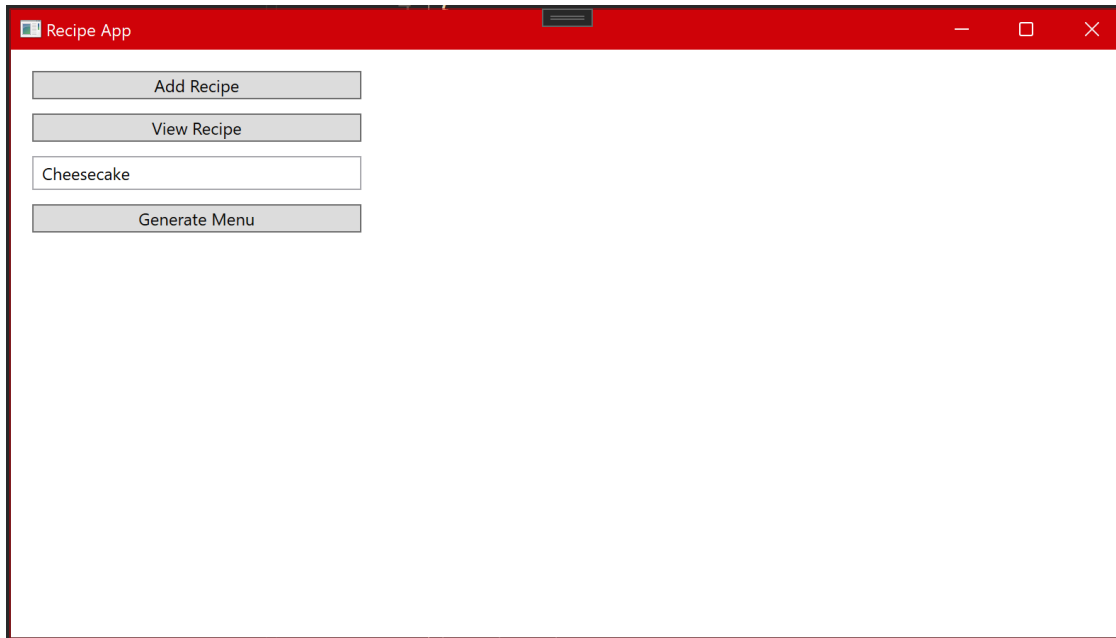
Once you have filled in the ingredients you may then enter the number of steps that will constitute the recipe. Any number above zero will do. Click the **Add Steps** button and the requisite number of rows will appear.

This screenshot shows the same "Add New Recipe" form, but with additional changes:

- Number of Steps:** The text input field now contains "2".
- Add Steps:** This button has been clicked, resulting in two new rows for step descriptions.
- Step 1 Description:** A text input field containing "Cook the ingredients".
- Step 2 Description:** A text input field containing "Enjoy eating the resulting food".

The ingredient list remains the same as in the previous screenshot. The **Save Recipe** button is still at the bottom.

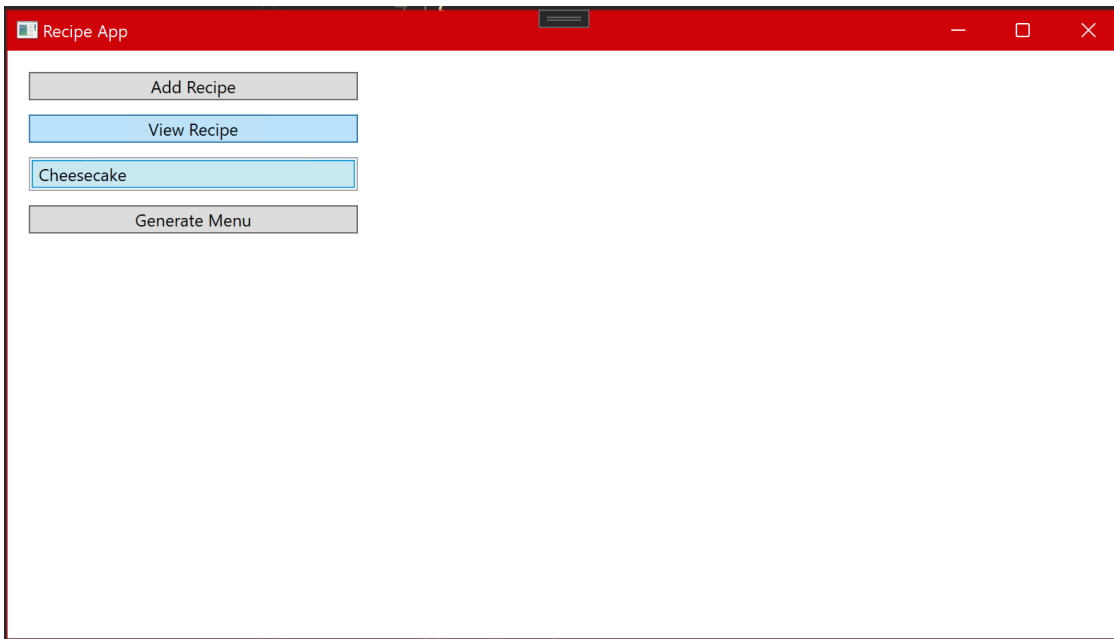
Finally once you have filled in the step descriptions you may press the **Save Recipe** button. If all is well it will save successfully and you are taken back to the **Home** Window. Notice how your newly saved recipe has now appeared in the recipe list.



The image shows a screenshot of a web application window titled "Recipe App". The window has a red header bar with standard window controls (minimize, maximize, close) on the right. The main content area is white and contains four elements stacked vertically on the left side: a grey button labeled "Add Recipe", a grey button labeled "View Recipe", a white text input field containing the text "Cheesecake", and a grey button labeled "Generate Menu". The rest of the page is empty.

VIEW RECIPE

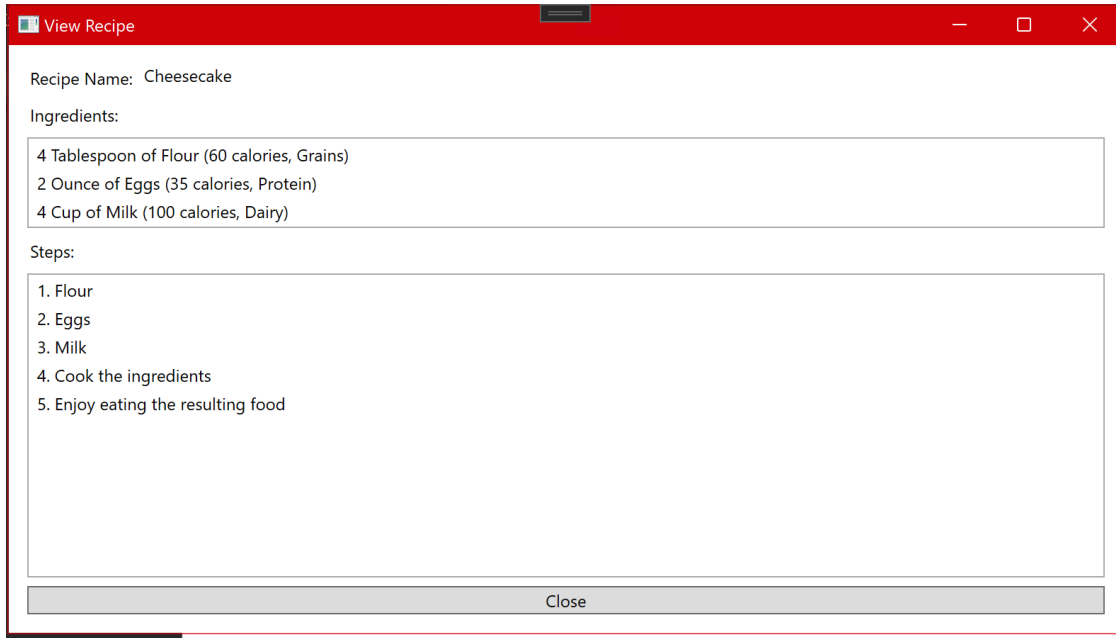
In order to view a particular recipe simply click its name in the recipe list. You will know if you have correctly selected it as it will become highlighted in blue. Once you have chosen which recipe you want to view you then click the **View Recipe** button.



After clicking the **View Recipe** button you will be presented with the **View Recipe** window. This window displays all of the stored information for the selected recipe. From top to bottom this is:

- *Recipe Name*
- *Ingredients*
- *Steps*

Once you have finished cooking or would like to do something else on the app you can simply click the **Close** button to get back to **Home**.



The image shows a screenshot of a mobile application window titled "View Recipe". The window has a red header bar with the title and standard Android window controls (back, close, and a third icon). The main content area is white and contains the following information:

- Recipe Name:** Cheesecake
- Ingredients:**
 - 4 Tablespoon of Flour (60 calories, Grains)
 - 2 Ounce of Eggs (35 calories, Protein)
 - 4 Cup of Milk (100 calories, Dairy)
- Steps:**
 1. Flour
 2. Eggs
 3. Milk
 4. Cook the ingredients
 5. Enjoy eating the resulting food

At the bottom of the window, there is a grey button labeled "Close".

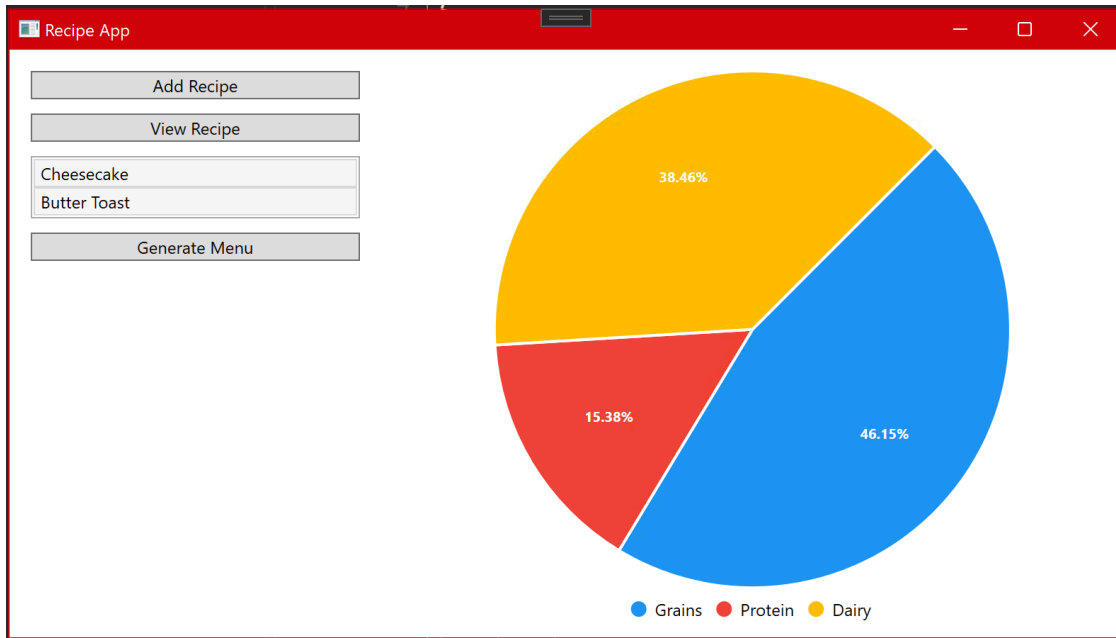
FOOD GROUP PIE CHART

Now we are on to the most visually interesting feature of the app. The food group pie chart. This pie chart shows the percentage that each food group of each selected recipe makes up for any given menu.

In order to generate the chart you must first start by clicking each recipe in the recipe list that you would like to be included in the menu. This action selects them and highlights in blue.

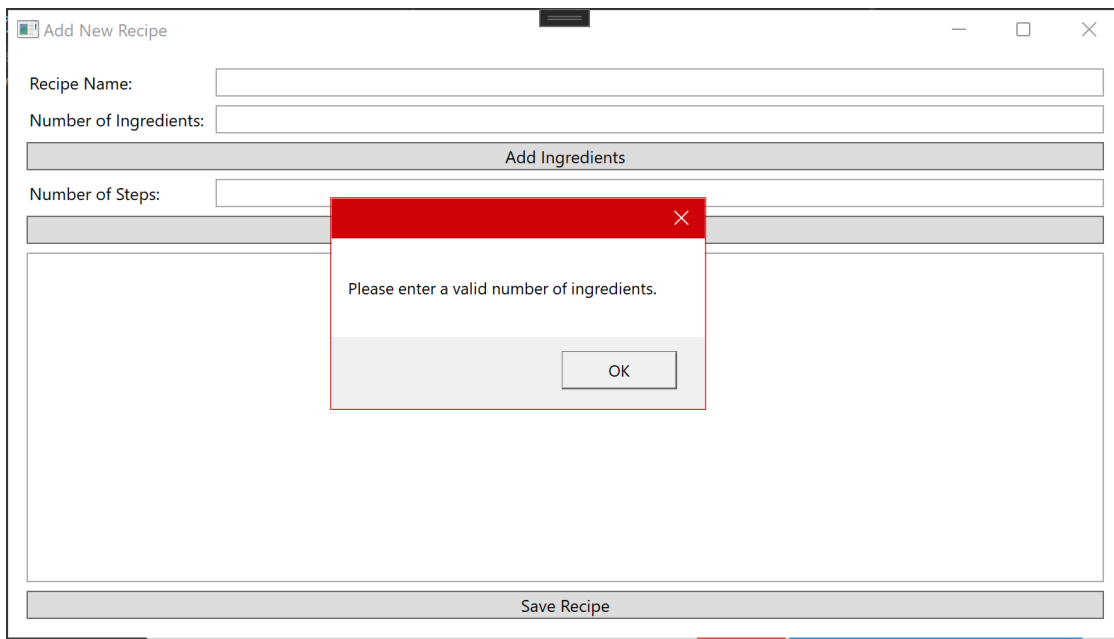
You may also click a selected recipe for a second time to deselect it.

Once you have chosen your menu click the **Generate Menu** button. If done right the pie chart will be rendered in to the right hand side of the **Home** window.



COMMON ERRORS

This error happens whenever the program has not been able to parse the data entered into the **Number of Ingredients** field. This can be because nothing was entered at all or because of non integer non numeric characters were entered.



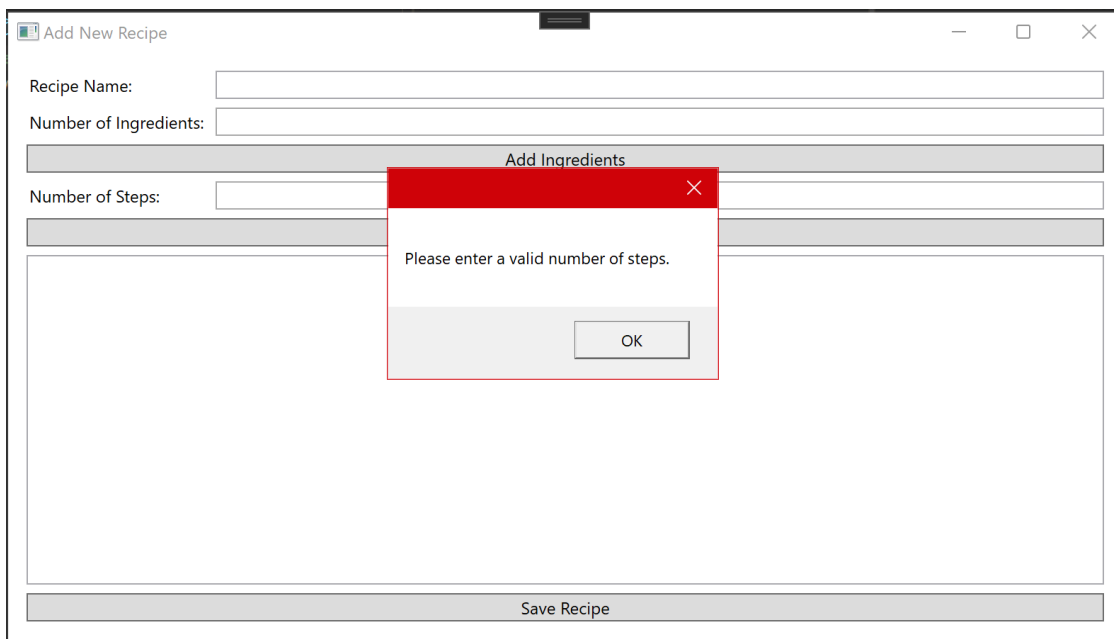
The screenshot shows a window titled "Add New Recipe" with the following elements:

- Recipe Name:
- Number of Ingredients:
- Add Ingredients button
- Number of Steps:
- Save Recipe button

An error dialog box is displayed in the center, with a red header bar and a close button (X). The message inside the dialog is: "Please enter a valid number of ingredients." with an "OK" button at the bottom.

Please enter a valid number of steps.

This error happens whenever the program has not been able to parse the data entered into the **Number of Steps** field. This can be because nothing was entered at all or because non integer non numeric characters were entered.



The screenshot shows the same "Add New Recipe" window as above, but with an error dialog box for the "Number of Steps" field. The dialog box has a red header bar and a close button (X). The message inside is: "Please enter a valid number of steps." with an "OK" button at the bottom.

Please select a recipe to view

This error happens when the **View Recipe** button is clicked but no recipe had been selected from the recipe list. To rectify, please select the desired recipe from the list before clicking the **View Recipe** button.

You can tell if a recipe is selected because it will be highlighted in blue.

