

VALIDATION TESTING

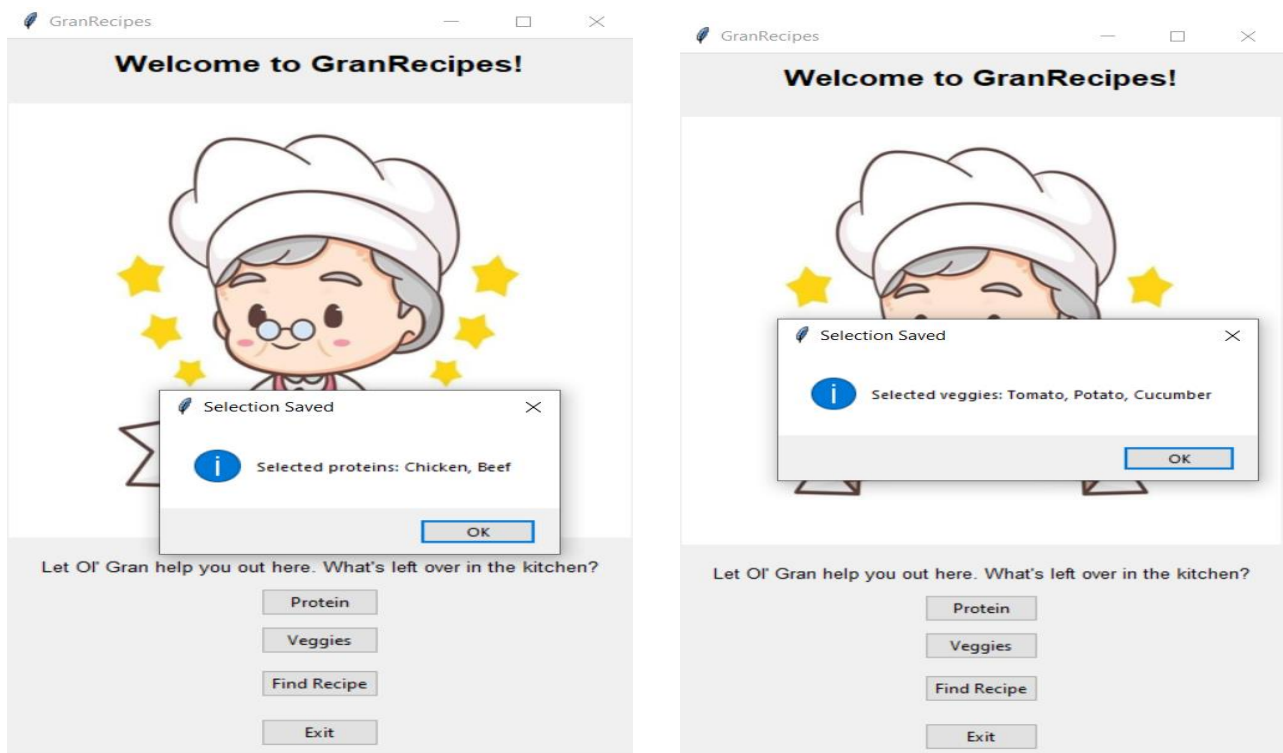
Test Data Development

Test for Ingredient Selection:

Data Set: Select various combinations of proteins and veggies.

Expected Outcome: The selections are correctly saved and displayed in a message box.

Screenshot(s):

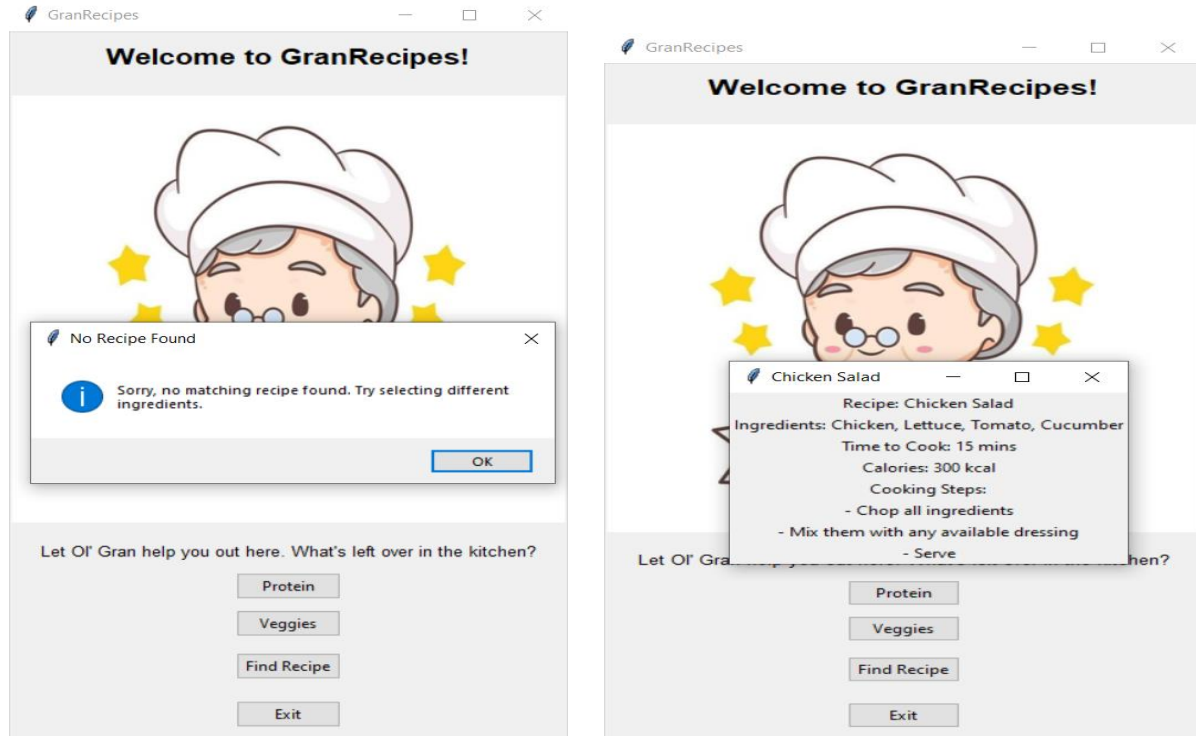


Test for Recipe Finding:

Data Set: After selecting ingredients, click "Find Recipe". Test with different combinations that match and don't match any recipes.

Expected Outcome: The application should display a recipe if one is found that matches the selected ingredients, or inform the user if no matching recipe is found.

Screenshot(s):

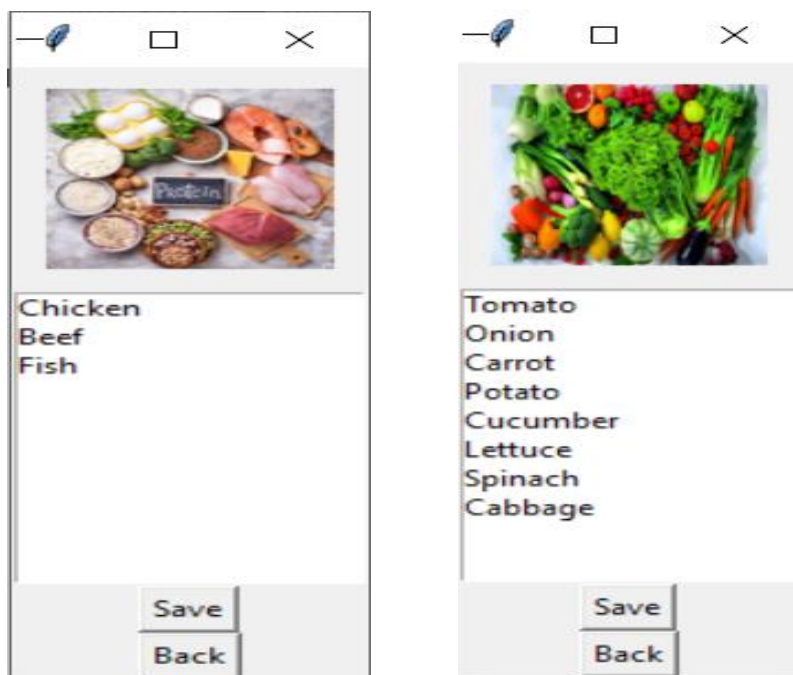


Test for Image Display:

Data Set: Launch the application and open the ingredient selection windows.

Expected Outcome: The relevant images should be displayed in both the main window and the ingredient selection windows.

Screenshot(s):



Test for Exit Functionality:

Data Set: Click the "Exit" button on the main window.

Expected Outcome: The application should close.

Screenshot (the program closes and only the shell is left):



```
Python 3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> = RESTART: C:\Users\Work\Desktop\Fall 23\Software Dev\Final Project\Testing\Najmal_Sahil_M08_FinalProject.py
Finding recipe...
Selected proteins: ['Chicken', 'Beef']
Selected veggies: ['Tomato', 'Potato', 'Cucumber']
No matching recipe found.
Finding recipe...
Selected proteins: ['Chicken']
Selected veggies: ['Tomato', 'Onion', 'Carrot', 'Potato', 'Cucumber', 'Lettuce', 'Spinach', 'Cabbage']
Recipe found: Chicken Salad
>>> |
```

Ln: 13 Col: 0

Test Execution and Results

Ingredient Selection Test:

Results: The application correctly saves the selected ingredients and displays them in a message box.

Fixes Required: None.

Recipe Finding Test:

Results: When matching ingredients were selected, the application successfully found and displayed a recipe. When no matching ingredients were selected, it appropriately informed the user.

Fixes Required: None.

Image Display Test:

Results: Images were successfully displayed in the main and selection windows.

Fixes Required: Adjusted image sizes for better fit.

Exit Functionality Test:

Results: The application closed as expected when the "Exit" button was clicked.

Fixes Required: None.