

**HARINI SARAVANAN**

**BU ID: U33572460**

**CS 521: INFORMATION STRUCTURES WITH PYTHON**

**-Ed Orsini**

**ONE- PAGE OVERVIEW**

**Pantry Pal** is a Python-based application designed to suggest recipes based on the ingredients in the user's pantry. The program leverages an internal recipe database and also provides an option to search for recipes online using the Spoonacular API. Users can input their pantry items, store them in a file, and discover recipes that minimize waste and optimize meal preparation. The app highlights sustainability and convenience for users ranging from home cooks to busy professionals.

**Practical Significance:**

- **Efficiency:** Quickly find recipes without additional grocery shopping.
- **Sustainability:** Reduce food waste by utilizing available ingredients.
- **Convenience:** Offers online recipe suggestions for variety and inspiration.

**Functionality:**

**Ingredient-Based Recipe Finder:**

- Suggests recipes from a predefined database using user-input ingredients.

**Ingredient Storage:**

- Saves user ingredients locally for convenience and persistence.

**Online Recipe Search:**

- Fetches recipes from the web using Spoonacular API for more options.

**User-Friendly Interface:**

- Simple command-line interface with step-by-step interaction.