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Module 03 Project Status Report I

* The topic that I would like to do for my final python tkinter GUI application is a Grocery Tracker.
* The purpose of my application will be to keep track of the groceries we have at home and when low on groceries we will know what to get.
* The reason I am creating the application is because I often run out of food before realizing that we are out. This application will solve this issue as I will always have a way of checking our current groceries without the hassle of digging through the kitchen.
* I want the Application to be able to add, delete, track expiration dates, and search items.
* My Target audience is every day working class people who don’t really have time to keep up with their grocery list.

Outline:  
**Project Overview**

* Purpose: To create a GUI-based inventory tracker for food items using Tkinter.

**Key Features**

* Add food item (name, quantity, expiration date).
* View food inventory list.
* Update the quantity of food items.
* Delete items from inventory.
* Search for food items by name.

**Data Structures**

* Inventory data will be stored in a list of dictionaries:

**Functions**

* add\_item (name, quantity, expiration): Adds a new item to the inventory.
* update\_item (name, new\_quantity): Updates the quantity of a specific item.
* delete\_item (name): Deletes an item from the inventory.
* search\_item (name): Searches for an item by name.

**Flow/Process**

* User opens the application and is presented with input fields for item name, quantity, and expiration date.
* After entering the details, the user can click buttons to add, update, or delete items.
* The inventory will be displayed in a Listbox or Treeview widget.

**Modules/Libraries**

* Tkinter

**Optional Enhancements**

* File handling to save inventory data across sessions.
* Sorting the inventory by item name or expiration date.
* Adding notifications for items nearing expiration.

Sources:

Ai assisted outline creation:   
OpenAI. (2025, April 6). *Python outline for a Tkinter food inventory tracker application*. ChatGPT. <https://chat.openai.com/>