

User Manual

StockMate is designed to help you digitize inventory management in your business. Here are the instructions for using the system:

System Overview: StockMate is an offline Python-based system that allows users to monitor inventory and provide inventory analysis.

1. Login:

The system will first display a prompt to enter the username and password. To use the functions, you must first log in with the username and password which, for this instance, is set to:

Username: Small Food Business

Password: 98123food

2. Location or Creation of the File:

Consequently, right after logging in, the system will create a file folder named, "JSON Stock", where the files will be stored. If the file folder is already existing, it will proceed to the next prompt. The system will store all of this in the local directory where the current Python integrated development environment (IDE) used is located to ensure that the loading of the files will be faster.

(Note: Search for the file name or file folder in the search bar of the computer if unsure of the local directory.)

The next prompt will ask for a file name that will be searched by the system in the local storage. If the file name is found under the folder, it will simply open the existing file, and will be labeled as a new file. However, if there is no file located, it will automatically create a new file with the user-input file name under the created file folder and will be labeled as not a new file.

```
Stock Count Tracking System
Enter username: Small Food Business
Enter password: 98123food
Logged in successfully.

Type in any file name: new
File not found. Creating new file...
New file created.
```

```
Stock Count Tracking System
Enter username: Small Food Business
Enter password: 98123food
Logged in successfully.

Type in any file name: newfiletest
File located.
```

3. Dashboard:

Once logged in, the system will display a dashboard that shows the service list with its corresponding service code. The dashboard displays the following functionalities:

- [A] Check Inventory
- [B] Add Items
- [C] Delete Items
- [D] Update Items
- [E] Statistics for Nerds
- [F] Exit

Further description of the functionalities is discussed in the succeeding items.

4. Service Code A: Check Inventory

If the user chooses service code A, it will correspond to the function, "Check Inventory". Before proceeding to the function, the system will first check whether the file is new. If it is a new file, the system will display "No Data Available" and will proceed to the prompt asking for another service.

If the file already exists, the system will prompt the user to either search for a specific item name and display its data or display the whole inventory. If the former is selected, it will display a table with only the user-input item name and its corresponding data. However, if the user-input item name is not found, it will display "Item not located," and will ask again whether the user wants another functionality or not. If the latter is selected, it will

display the whole table, then prompt whether to use another service or not. In both cases, if the user selects to use another functionality, the system will go back again to the dashboard and repeat the conditions. Otherwise, the system will simply terminate.

```

Enter Service Code: a
Do you want to search for a specific item [1] or display the whole table [2]? 1
Enter the item name to search [case sensitive]: Beef

  Item Code Item Name Beginning Stock Unit of Measure Value per Unit Reorder Stock On-hand Stock Total Value
0      A03      Beef           30          kg          400           32           9      24800.0
Would you like to use another service? [y/n] █

```

```

Enter Service Code: a
Do you want to search for a specific item [1] or display the whole table [2]? 2

  Item Code Item Name Beginning Stock Unit of Measure Value per Unit Reorder Stock On-hand Stock Total Value
0      A01      Chicken           50          kg          180           50           19      18000.0
1      A02        Pork           75          kg          330           80           15      51150.0
2      A03        Beef           30          kg          400           32           9      24800.0
3      A04         Eggs           50         tray          150           75           17      18750.0
4      B01 Well-milled Rice           5         sack          2100            7           3      25200.0
5      B02 Premium Rice           3         sack          2300            1           1       9200.0
6      B03 Special Rice           3         sack          2500            3           1      15000.0
7      C01      Cabbage           25          kg           60           40           5       3900.0
8      C02       Carrot           40          kg          100           50          10       9000.0
9      C03       Potato           50          kg           70           50          10       7000.0
10     C04   Baguio Beans           20          kg           80           50          10       5600.0
Would you like to use another service? [y/n] █

```

5. Service Code B: Add items

If the user chooses service code B, it will correspond to the function, "Add Items". The system will first display the current inventory and ask for the quantity of service or the number of individual items that the user wants to add in one iteration of the service code B.

Depending on the user-input service quantity, the system will proceed to display the following questions prompts, n number of times:

- a. Item Code - short descriptor to reference the item.

- b. Item Name - the name of the food item to be added.
- c. Beginning Stock Quantity - the number of stocks of a particular item originally purchased in a period.
- d. Unit of Measure - the magnitude of the food item.
- e. Item Value - the value of one unit of the food item
- f. Reorder Stock Quantity - the number of stocks of a particular item purchased after the Beginning Stock Quantity ran out.
- g. On-hand Stock Quantity - the number of unsold stocks of a particular item.
- h. Total Value - this is not prompt but an automatic computation and display of the quantity and item value product.

After the user has inputted the information for the items they want to add, the system will show a table of only the items to be added. The system will then prompt the user to confirm whether they want to save the data or not. If the user chooses to save the data, the system will save it and then reload the updated inventory table. The system will then prompt the user to select another service or exit. However, if the user chooses not to save the data, the system will immediately prompt the user to choose another service.

	Item Code	Item Name	Beginning Stock	Unit of Measure	Value per Unit	Reorder Stock	On-hand Stock	Total Value
0	C05	Pechay	35	kg	40	30	10	2600.0
1	D01	Banana Latundan	35	kg	55	50	5	4675.0
2	D02	Banana Lakatan	50	kg	60	65	4	6900.0

Confirm to update data[y/n]:

6. Service Code C: Update Items

If the user chooses service code D, it will correspond to the function, "Update Items". Before proceeding to the function, the system will first check whether the file is new. If so, it will display, "No Data Available" and will proceed to the prompt asking for another service.

If the file is already existing, the system will display the current inventory and prompt the user to type in the Item Name they want to update. If the item name does not exist, the system will print, "Item not found", and proceed to ask whether the user wants another service or not. Otherwise, the system will ask for the following:

- Enter the new beginning quantity - asks for the new beginning stock quantity of the selected item.
- Enter the new value - asks for the new value per unit of the selected item.
- Enter the new reorder quantity - asks for the new reorder stock quantity of the selected item.
- Enter the new on-hand quantity - asks for the new on-hand stock quantity of the selected item.

The system will ask whether to confirm the update or not. If so, the system will update the quantity, value, and the total value of the selected item. Then it proceeds to save the data, load again, print the updated inventory table, and then to the prompt whether to choose another service or not. If the user selects to not save the data, it will proceed to the prompt of another service.

```
Enter the item name to update [case sensitive]: Carrot
Enter the new beginning quantity: 20
Enter the new value: 50
Enter the new reorder quantity: 45
Enter the new on-hand quantity: 3
Confirm to update data[y/n]:
```

7. Service Code D: Delete Items

If the user chooses service code C, it will correspond to the function, "Delete Items". Before proceeding to the function, the system will first check whether the file is new. If so, it will display, "No Data Available" and will proceed to the prompt asking for another service.

If the file is already existing, the system will display the current inventory and prompt the user to type in the Item Name they want to delete. If the item name does not exist, the system will print, "Item not found", and proceed to ask whether the user wants another service or not. Otherwise,

the system will display a table showing the data of the selected item and will ask to confirm to delete it.

If so, the system will delete the item, save the data, load again, print the updated inventory table, and then to the prompt whether to choose another service or not. If the user selects to not save the data, it will proceed to the prompt of another service.

```
Enter the item name to delete [case sensitive]: Baguio Beans  
Confirm to update data[y/n]:
```

8. Service Code E: Statistics for Nerds

If the user chooses service code C, it will correspond to the function, "Delete Items". Before proceeding to the function, the system will first check whether the file is new. If so, it will display, "No Data Available" and will proceed to the prompt asking for another service.

If the file is already existing, the system will proceed to show the following statistics on the existing inventory data:

- a. Beginning Stock
- b. Ending Inventory
- c. Cost of Goods Sold
- d. Expected Revenue

- e. Actual Revenue
- f. Gross Profit
- g. Inventory Turnover Ratio
- h. Days Sale of Inventory
- i. Sell-Through Rate

```
Type the code of your choice: e
• Beginning Inventory: ₱ 88750.0
    This is the initial total value of items in stock at the start of this period.
• Ending Inventory: ₱ 28420.0
    This is the total value of all items that are in stock at the end of a period. Use this to determine how much stock you will purchase
    in the next period.
• Cost of Goods Sold: ₱ 159180.0
    This is the total amount you spent on expenses directly associated with the selling of goods, including the costs of the items needed
    for creating a product. Use this to assess your financial state and assure your gross profits.
• Expected Revenue: ₱ 187600.0
    This is the estimated total amount of revenue you can earn for this particular period. Use this to identify how much you can spend for
    your next business strategy.
```

9. Service Code F: Exit

If the user chooses service code D, it will correspond to the function, "Exit". The system will simply display "Program Terminated" and exists the program.