This document explains basic wedding shop application.

Features:

The application asks user to select an option .

L 🡪 List all products

A 🡪 Add a new product

R 🡪 Remove a product (either by id or by name )

P 🡪 Purchase a product and display report for purchased items and un purchased items.

Individual functionalities are kept in separate functions.

1. It reads data from the .json file

Converts json data to a python list [products]

Each item inside the list is a dictionary itself

1. It displays all items/product inside products list
2. User can add an item to the list–

The application takes input from user, new products , name, brand, price and quantity

It counts id automatic, from the last added id

1. It removes an item

The application takes input from user, how they want to delete item (based on ID or by name)

It takes the right id or name , as input

It matches the item and then remove the item

1. User can purchase an item / and see reports of purchased and unpurchased items

User is displayed current available items

User is asked to input an item to purchase

User is asked to input number of item they wish to purchase

It displays the message , the product they have selected and the number of items that they want to purchase

It asks for a confirmation – if they want to progress with their purchase

List /Display all items:

Text

Description automatically generated

Text

Description automatically generated

List all items- I didn’t use any framework or UI to give nice format yet

Add an item:

Text

Description automatically generated

A test product has been added with related meta data

Remove an Item: (by id/ product id):

We are removing item with id -11 below.

List after deletion doesn’t show item number 11.

Text

Description automatically generated

Item with id 11 is deleted from the list

Remove an Item: (by name )

We will remove first product by its name. it is ‘Tea pot’

Text

Description automatically generated

Tea pot – is deleted from the list (first item)

# **Purchase an item and display report:**

We are buying 3 items of Tea pot

Total available 50 units, and bought 3 units of Tea pots.

47 Tea pot left to purchase.

On the report section it displays:

* Purchased products meta data , (brand, unit price, name etc), and how many left
* Also information about all available items to purchase.

Text

Description automatically generated

Firs item Tea pot – unit reduced from 50 to 47 (3 items purchased)

If user doesn’t confirm purchase after selection :

It displays a message saying you opt out

And displays all current available items.

Text

Description automatically generated

Nothing changed on First item (Tea pot) available quantity- as user didn’t confirmed. (so all 50 items left to purchase)

Extra points:

Created a log in screen with GUI module tkinter, but I can imagine for a production environment, I will use database to store log in credentials.

A screenshot of a cell phone

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Containerisation

Created a docker file , and rquiements.txt file, (Just started)

Text

Description automatically generated

End