

CEP REPORT



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SUBMITTED TO:

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ONLINE SHOPPING CART

PROBLEM DISCRPTION:

Online shopping cart is a virtual shopping trolley, where shoppers can login or create account and can put all of their want-to-buy products in, review to make adjustments in quantity of product and can remove it before or during the checkout if they change their mind and also the customers can view their previous shopping history.

DISTINGUISHING FEATURES:

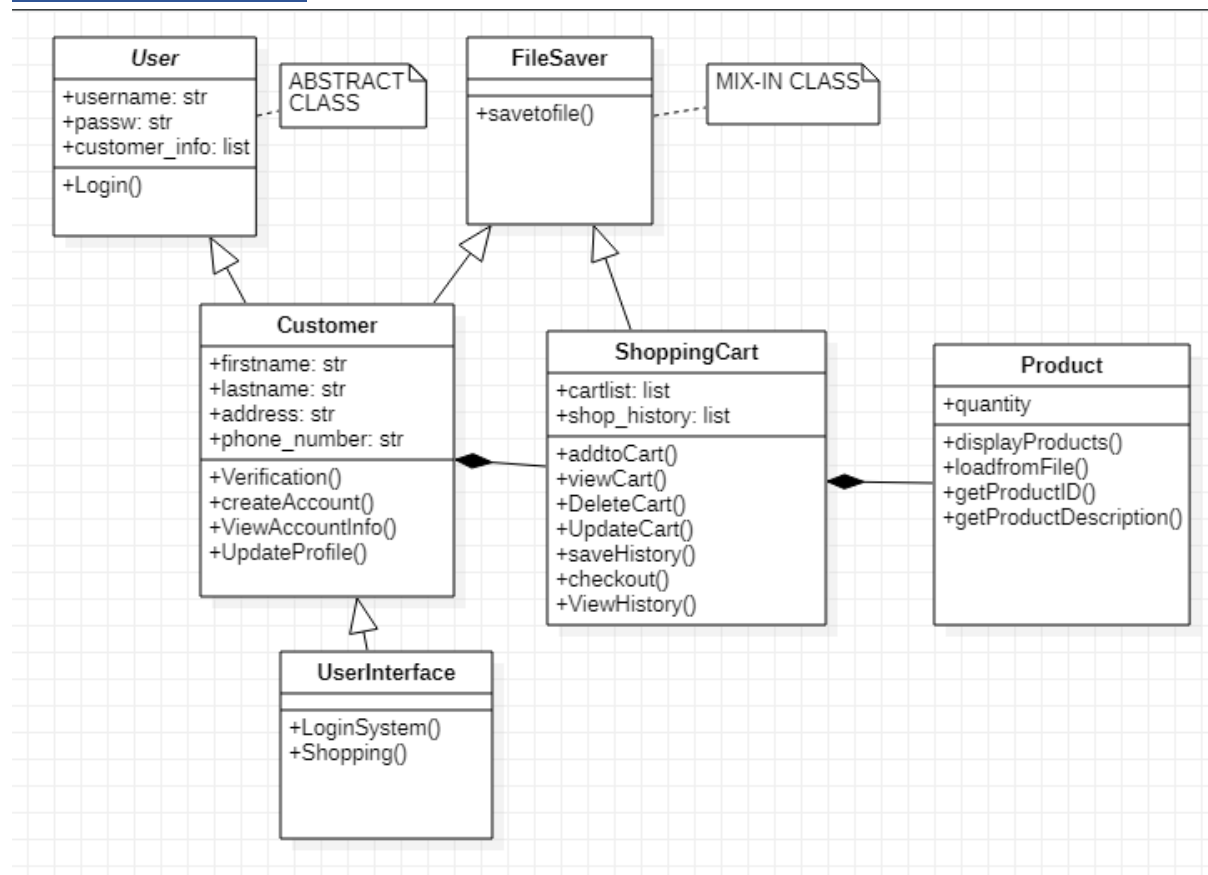
Following are some distinguishing features of my project:

- I. The customer's data including account information and store's product information and shopping history of each customer is maintained and store in text files. Text files are easy to handle and provides a good interface readable by the user.
- II. This application has a mix-in class named 'File Saver'. This class is inherited by two classes of my application. It has a function which creates a file and stored the given list in that file in a readable way.
- III. It has an abstract user class which has a function of verify login which verifies the username with password so that the customer can login and buy products. This abstract class serves as an API for user other than customer i.e. shopping store owner for future extensions.
- IV. The application saves all the shopping history of the user with checkout date and time at the time of checkout.
- V. It shows a bill receipt of the customer at the time of checkout.

FLOW OF PROJECT :

- I. First of all this application ask the user if he wants to login or view his previous shopping history or want to exit.
- II. If he wants to see his previous shopping history then the history will be shown with checkout date and time.
- III. If he selects login, then the application ask to create account or login with his previous account. When he verify his account then the application ask if he wants to view his account details or update his profile or goes to shopping shelves.
- IV. When he goes to shopping a product list will display with product IDs then the application ask if he wants to view details of product or not. Then the products added in the cart according to the desire of customer.
- V. Then the application ask the customer if he wants to view, edit or delete from cart. Or wants to checkout
- VI. If he checkout all his shopping history will save in file and then a bill receipt of that customer will be shown.
- VII. Then again the application ask the customer to again login or buy or wants to exit.

CLASS DIAGRAM:



MOST CHALLENGING PART OF PROJECT:

The most challenging part for me while working on this project is the preparation of bill receipt of the user. To access the shopping history of the user from the text file is very challenging for me.

NEW THING LEARNT IN PYTHON:

I have learnt the concept of object oriented programming in python and application designing. Moreover, I have learnt the use of text files though I have learnt it before but after designing this application now I am very good at handling text files.

FUTURE EXPANSION:

In future I would like to design this application in GUI mode and will design the application using a web interface. I will also add admin class so that the admin can also add or remove products from product list. I will add a payment process for the customer also.

TEST CASE RUNS:

OUTPUT 1:

```
=====
WELCOME TO ONLINE SHOPPING
=====
```

```
*****
WHAT DO YOU WANT TO DO?

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.
*****
```

Enter your choice:1

ARE YOU A REGISTERED CUSTOMER? PRESS 'y' or 'n'....n

DO YOU WANT TO CREATE ACCOUNT?PRESS 'y' or 'n'.....y

****CREATE YOUR ACCOUNT****

Create User Name:waji19

Create Password:1234

Enter first name:Wajiha

Enter last name:Khan

Enter your Address where the products will deliver:a-223

Enter your phone number:1-23-5466

YOUR ACCOUNT HAS BEEN CREATED SUCCESSFULLY!!

****VERIFY YOUR ACCOUNT****

Enter your user name:waji19

Enter your password:1234

LOGIN SUCCESSFULLY!!

```
*****
WHAT DO YOU WANT TO DO?

1. VIEW ACCOUNT DETAILS
2. UPDATE PROFILE
3. SHOPPING
*****
```

Enter your choice:3

DO YOU WANT TO BUY SOMETHING?PRESS 'y' or 'n'y

=====

MULTI PURPOSE IOT DEVICES

=====

'PRODUCT ID'	'PRODUCT NAME'	'PRICE IN RS.'
--------------	----------------	----------------

P1	Flutter	12000
P2	Awair	6000
P3	Canary	30000
P4	Tessel	14000
P5	Aptomar	40000
P6	RoboCV	60000
P7	Sonos	6000
P8	FitBit	10000
P9	Piper	30000
P10	Misfit	5000

WHAT DO YOU WANT TO DO?

1. ADD TO CART
2. VIEW PRODUCT DETAILS

Enter your choice:1

Enter ID of Product which you want to add to cart:P1

Enter how much you want to buy:2

=====

FLUTTER HAS BEEN ADDED TO YOUR CART

=====

Do You Want To Buy More Products? Press 'y' or 'n'..y

Enter ID of Product which you want to add to cart:P2

Enter how much you want to buy:2

=====

AWAIR HAS BEEN ADDED TO YOUR CART

=====

Do You Want To Buy More Products? Press 'y' or 'n'..n

=====

PRODUCTS HAVE BEEN ADDED TO YOUR CART

=====

WHAT DO YOU WANT TO DO?

1. VIEW CURRENT CART
2. DELETE ITEMS FROM CART
3. UPDATE CART
- 4 . CHECKOUT

Enter your choice:4

YOUR SHOPPING HISTORY HAS BEEN SAVED SUCCESSFULLY

Enter your Username:waji19

BILL RECIEPT

USERNAME	DATE	TIME
----------	------	------

waji19	14-09-20	17:32:48
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PRODUCTS	QTY	PRICE
----------	-----	-------

Flutter	2	12000Rs.
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Awair	2	6000Rs.
-------	---	---------

TOTAL	4	36000 Rs.
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WELCOME TO ONLINE SHOPPING

=====

WHAT DO YOU WANT TO DO?

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.

Enter your choice:3

OUTPUT 2:

```
=====
WELCOME TO ONLINE SHOPPING
=====
```

```
*****
WHAT DO YOU WANT TO DO?

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.
*****
```

Enter your choice:2

Enter your Username:waji19

```
*****
```

```
BILL RECIEPT
```

```
*****
```

```
*****
```

```
USERNAME          DATE          TIME
*****
```

```
waji19            14-09-20      17:32:48
```

```
*****
```

```
PRODUCTS          QTY          PRICE
*****
```

```
Flutter           2            12000Rs.
```

```
Awair             2            6000Rs.
```

```
*****
```

```
TOTAL             4            36000 Rs.
```

```
*****
```

```
=====
WELCOME TO ONLINE SHOPPING
=====
```

```
*****
WHAT DO YOU WANT TO DO?

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.
*****
```

Enter your choice:3

>>>|

OUTPUT 3:

```
=====
      WELCOME TO ONLINE SHOPPING
=====
```

```
*****
      WHAT DO YOU WANT TO DO?
```

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.

```
*****
```

Enter your choice:1

ARE YOU A REGISTERED CUSTOMER? PRESS 'y' or 'n'....y

****VERIFY YOUR ACCOUNT****

Enter your user name:jia10

Enter your password:123

LOGIN SUCCESSFULLY!!

```
*****
      WHAT DO YOU WANT TO DO?
```

1. VIEW ACCOUNT DETAILS
2. UPDATE PROFILE
3. SHOPPING

```
*****
```

Enter your choice:3

DO YOU WANT TO BUY SOMETHING?PRESS 'y' or 'n'y

MULTI PURPOSE IOT DEVICES

 'PRODUCT ID' 'PRODUCT NAME' 'PRICE IN RS.'

P1	Flutter	12000
P2	Awair	6000
P3	Canary	30000
P4	Tessel	14000
P5	Aptomar	40000
P6	RoboCV	60000
P7	Sonos	6000
P8	FitBit	10000
P9	Piper	30000

P10	Misfit	5000
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WHAT DO YOU WANT TO DO?

1. ADD TO CART
2. VIEW PRODUCT DETAILS

Enter your choice:2

Enter ID of Product which you want to see details:P2

PRODUCT NAME: Awair

DETAILS: Awair is an air-quality sensor that can send smartphone alerts and recommendations for improving your indoor air quality.

Do you want to see more products details?Press'y' or 'n'...n

=====

MULTI PURPOSE IOT DEVICES

=====

'PRODUCT ID'	'PRODUCT NAME'	'PRICE IN RS.'
--------------	----------------	----------------

P1	Flutter	12000
P2	Awair	6000
P3	Canary	30000
P4	Tessel	14000
P5	Aptomar	40000
P6	RoboCV	60000
P7	Sonos	6000
P8	FitBit	10000
P9	Piper	30000

P10	Misfit	5000
-----	--------	------

Enter ID of Product which you want to add to cart:P2

Enter how much you want to buy:3

=====

AWAIR HAS BEEN ADDED TO YOUR CART

=====

Do You Want To Buy More Products? Press 'y' or 'n'..n

=====

PRODUCTS HAVE BEEN ADDED TO YOUR CART

=====

WHAT DO YOU WANT TO DO?

1. VIEW CURRENT CART
2. DELETE ITEMS FROM CART
3. UPDATE CART
- 4 . CHECKOUT

Enter your choice:1

=====

THIS IS YOUR CURRENT CART

=====

'PRODUCT ID'	'PRODUCT NAME'	'PRICE IN RS.'	'QUANTITY'

P2	Awair	6000	3

WHAT DO YOU WANT TO DO?

1. VIEW CURRENT CART
2. DELETE ITEMS FROM CART
3. UPDATE CART
- 4 . CHECKOUT

Enter your choice:4

YOUR SHOPPING HISTORY HAS BEEN SAVED SUCCESSFULLY

Enter your Username:jia10

BILL RECIEPT

USERNAME	DATE	TIME

jia10	14-09-20	18:05:29
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PRODUCTS	QTY	PRICE

Awair	3	6000Rs.
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TOTAL	3	18000 Rs.
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WELCOME TO ONLINE SHOPPING

=====

WHAT DO YOU WANT TO DO?

1. LOGIN OR CREATE YOUR ACCOUNT TO PURCHASE.
2. VIEW PREVIOUS SHOPPING HISTORY.
3. EXIT.

Enter your choice:3

>>>|

THANK YOU