

Coursework Test Case Plan – 5COSC019C Object Oriented Programming

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	Test Case	Expected Result	Actual Result	Pass / Fail
1.	Menu is displayed when the program initialized.	Display Menu with the relevant options.	Display Menu with the relevant options.	Pass
2.	Press 1 to add a product to the system	When 1 is pressed options to add product is displayed	When 1 is pressed options to add product is displayed	Pass
3.	Press 1 or 2 to select whether the product is electronic or clothing.	When 1 is pressed required information to be filled for electronics is displayed while 2 is pressed information to be filled for clothing is displayed	When 1 is pressed required information to be filled for electronics is displayed while 2 is pressed information to be filled for clothing is displayed	Pass
4.	Press 2 to delete a product from the system	When 2 is pressed enter product id prompt is displayed and after entering product id a message is displayed saying product is deleted with relevant information	When 2 is pressed enter product id prompt is displayed and after entering product id a message is displayed saying product is deleted with relevant information	Pass
5.	Press 3 to print all the products in the system with the relevant information	When 3 is pressed all the products in the system with their category and entered information in the product adding phase is displayed in	When 3 is pressed all the products in the system with their category and entered information in the product adding phase is displayed in	Pass

		the ascending order by considering product ID	the ascending order by considering product ID	
6.	Press 4 to save all products to the system	When 4 is pressed all the products that have added to the system is saved to the file display the relevant messages	When 4 is pressed all the products that have added to the system is saved to the file display the relevant messages	Pass
7.	Press 5 to enter the shopping center interface	When 5 is entered user verification is initialized by asking for username and password. If the account is new, it will sign up and if account already existing then login will be performed	When 5 is entered user verification is initialized by asking for username and password. If the account is new, it will sign up and if account already existing then login will be performed	Pass
GUI				
8	Select category from the drop-down menu to filter the products in the system	When select category from the drop-down menu electronics and clothing should be filter accordingly and when all is selected it should display all the products	When select category from the drop-down menu electronics and clothing should be filter accordingly and when all is selected it should display all the products	Pass
9	Select item to get the product details	When a item/ product from the table is selected, the information of that particular product is displayed below the table	When a item/ product from the table is selected, the information of that particular product is displayed below the table	Pass
10	Select add to shopping cart button to add the	When add to the shopping cart button is selected, the selected product is added to	When add to the shopping cart button is selected, the selected product is added to	Pass

	item/s to the shopping cart	the cart and the number of available items will be reduced	the cart and the number of available items will be reduced	
11	Select shopping cart button to view the shopping cart with the discounts and the final prices	When shopping cart button is clicked the products, we did add to the cart will be displayed and discounts will be applied based on the conditions	When shopping cart button is clicked the products, we did add to the cart will be displayed and discounts will be applied based on the conditions	Pass
12	Items with availability less than 3 should be indicated in the red	When GUI opens the items with availability lesser than 3 should be highlighted in red color	Whole table will turn red if an item has lesser availability	Fail

Test Case 1

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Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) :

```

Test Case 2

```

-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 1

Do you want add electronics or clothing?
1. Electronics
2. Clothing
Enter your choice (1 or 2) :

```

Test Case 3

```
-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 1

Do you want add electronics or clothing?
1. Electronics
2. Clothing
Enter your choice (1 or 2) : 1

Enter product ID : p008
Enter product name : Mouse
Enter number of available items : 20
Enter price : 8000
Enter brand : Logitech
Enter warranty period (In Weeks) : 45

p008 product has been added successfully!
-----
```

Test Case 4

```
-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 2

Enter product ID : p008

The following Product has been deleted successfully!
    Product ID : p008
    Category : Electronics

The number of Products remaining in the system : 7
```

Test Case 5

```
-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 3

Product Type : Electronics
Product ID : P001
Product name : Laptop
Number of available items : 10
Price : 100000.0
Brand : Intel
Warranty period : 24 weeks warranty

Product Type : Electronics
Product ID : P002
Product name : Phone
Number of available items : 21
Price : 98000.99
Brand : Apple
Warranty period : 32 weeks warranty

Product Type : Clothing
Product ID : P003
Product name : Shirt
Number of available items : 20
Price : 2000.0
Size : M
Color : Black

Product Type : Clothing
Product ID : P004
Product name : Trouser
Number of available items : 31
Price : 2500.0
Size : S
Color : White

Product Type : Electronics
Product ID : P005
Product name : Tablet
Number of available items : 10
Price : 50000.0
Brand : Samsung
Warranty period : 32 weeks warranty

Product Type : Clothing
Product ID : P006
Product name : Short
Number of available items : 16
Price : 1500.0
Size : L
Color : Navy
```

Test Case 6

```
-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 4
File already exists.
All products saved successfully!
```

Test Case 7

```
-----
Welcome to Westminster Shopping Menu

[1] Add a new item to the shopping cart
[2] Delete an item from the shopping cart
[3] Print products in shopping cart
[4] Save products to file
[5] Open Shopping Center
[6] Exit the system
-----
Enter your choice (1 to 5) : 5
Do you already have an account? (Yes or No) : No
Please sign up with your credentials
Enter your Username: yowanee
Enter your Password: 321
File already exists.
All users saved successfully!
```

Test Case 8

Westminster Shopping Center

Select Product Category

All

Shopping Cart

Product ID	Name	Category	Price(€)	Info
P001	Laptop	Electronics	100000.0	Brand: Intel, Warranty: 24 weeks warranty
P002	Phone	Electronics	98000.99	Brand: Apple, Warranty: 32 weeks warranty
P003	Shirt	Clothing	2000.0	Size: M, Color: Black
P004	Trouser	Clothing	2500.0	Size: S, Color: White
P005	Tablet	Electronics	50000.0	Brand: Samsung, Warranty: 32 weeks warranty
P006	Short	Clothing	1500.0	Size: L, Color: Navy
P007	Hoodie	Clothing	6000.0	Size: M, Color: Blue
P008	HeadPhone	Electronics	8900.0	Brand: Fantech, Warranty: 34 weeks warranty
P009	Watch	Electronics	2300.0	Brand: Rolex, Warranty: 23 weeks warranty

Westminster Shopping Center

Select Product Category

Electronics

Shopping Cart

Product ID	Name	Category	Price(€)	Info
P001	Laptop	Electronics	100000.0	Brand: Intel, Warranty: 24 weeks warranty
P002	Phone	Electronics	98000.99	Brand: Apple, Warranty: 32 weeks warranty
P005	Tablet	Electronics	50000.0	Brand: Samsung, Warranty: 32 weeks warranty
P007	HeadPhone	Electronics	8900.0	Brand: Fantech, Warranty: 34 weeks warranty
P009	Watch	Electronics	2300.0	Brand: Rolex, Warranty: 23 weeks warranty

Westminster Shopping Center

Select Product Category

Clothing

Shopping Cart

Test Case 9

Westminster Shopping Center

Select Product Category

All

Shopping Cart

Product ID	Name	Category	Price(€)	Info
P001	Laptop	Electronics	100000.0	Brand: Intel, Warranty: 24 weeks warranty
P002	Phone	Electronics	98000.99	Brand: Apple, Warranty: 32 weeks warranty
P003	Shirt	Clothing	2000.0	Size: M, Color: Black
P004	Trouser	Clothing	2500.0	Size: S, Color: White
P005	Tablet	Electronics	50000.0	Brand: Samsung, Warranty: 32 weeks warranty

Selected Product Details

Product ID: P001

Category: Electronics

Product name: Laptop

Brand: Intel

Warranty: 24 weeks warranty

Items available: 7

Add to Shopping Cart

Test Case 10

Shopping Cart

Product	Quantity	Price(€)
P001, Laptop, Intel, 24 weeks warranty	1	100000.0

Shopping Cart

Info

warranty: 24 weeks warranty

Warranty: 32 weeks warranty

Size: M, Color: Black

Size: S, Color: White

Warranty: 32 weeks warranty

Total : 100000.0€

First Purchase Discount (10%) : - 10000.0€

Final Total : 90000.0€

Selected Product Details

Product ID: P001

Category: Electronics

Product name: Laptop

Brand: Intel

Warranty: 24 weeks warranty

Items available: 7

Add to Shopping Cart