UNIVERSITY OF WESTMINSTER⌗

INFORMATICS INSTITUTE OF TECHNOLOGY

Informatics Institute of Technology
Department of Computing
OOP Coursework Report

Module : 5COSC019C.1 Object Oriented Programming

Module Leader : Mr. Saman Hettiarachchi

Date of submission : 13.01.2024

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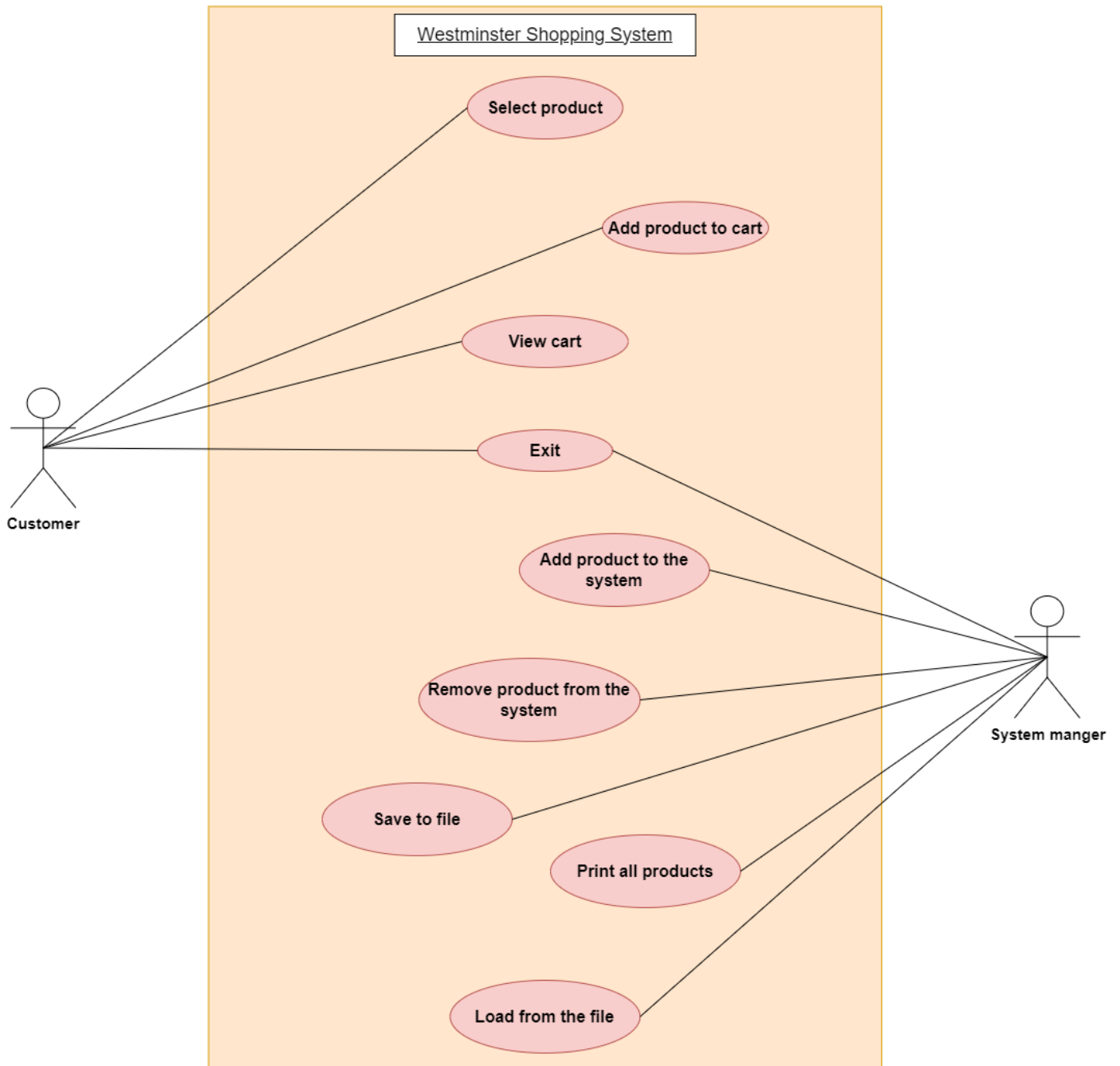Student Surname : Wagoda Pathirage

Test Cases

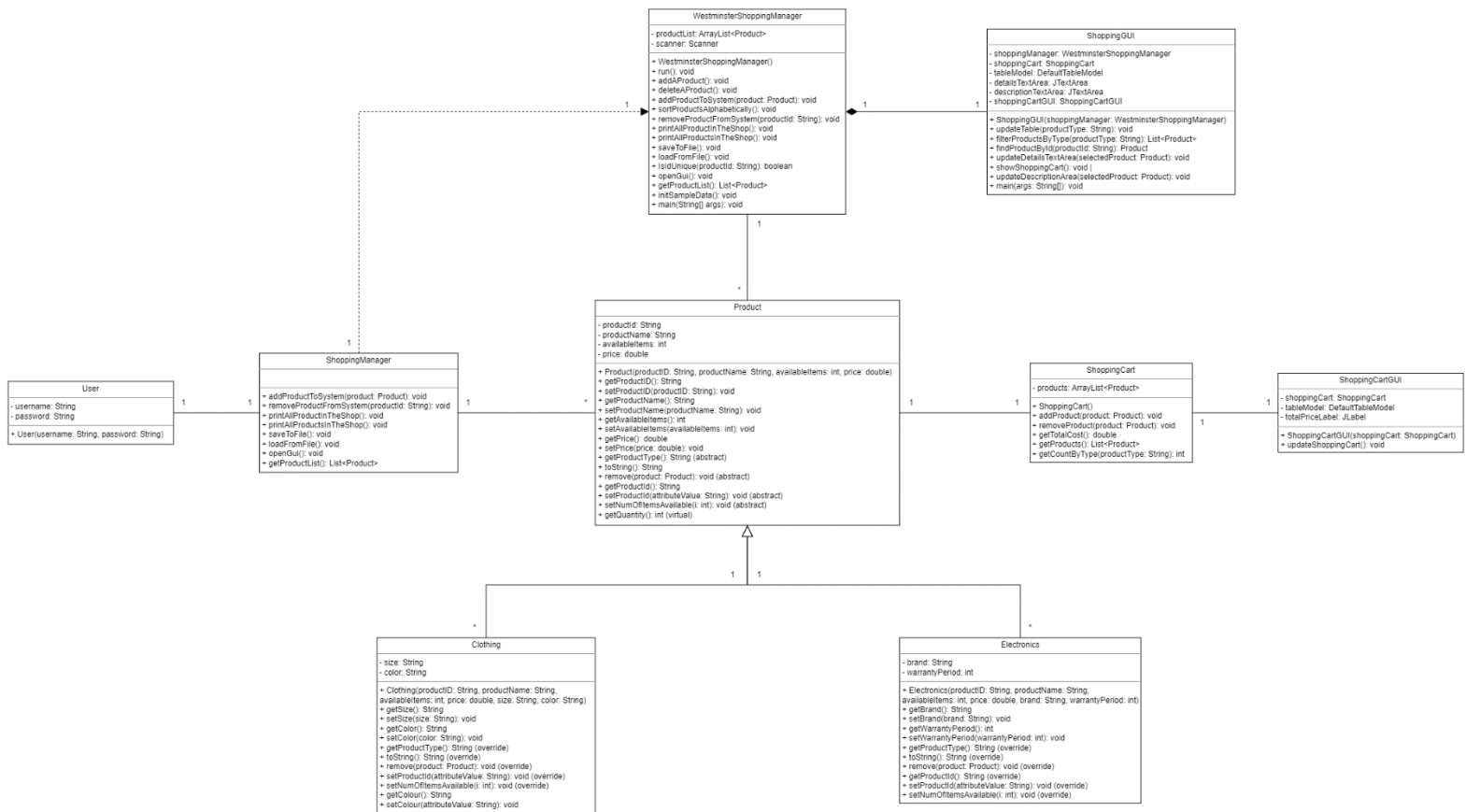|	Test Case	Expected Result	Actual Result	Pass/Fail
1	Starts the program	Displays the menu. =====Manager Menu===== 1. Add a new product. 2. Remove a product. 3. Print all products. 4. Save data to a file. 5. Load data from a file. 6. Exit from the program. 7. Open Shopping center GUI. Enter the option number:	Displays the menu. =====Manager Menu===== 1. Add a new product. 2. Remove a product. 3. Print all products. 4. Save data to a file. 5. Load data from a file. 6. Exit from the program. 7. Open Shopping center GUI. Enter the option number:	Pass
2	Enter1 as the operator type	Enter 1 to add Electronic product. Enter 2 to add Clothing product.	Enter 1 to add Electronic product. Enter 2 to add Clothing product.	Pass
3	Enter 2 as the operator type	Enter Product ID that needs to delete :	Enter Product ID that needs to delete :	Pass
4	Enter 3 as the operator type	----Product list---- Product Type: Electronics Product Name: Laptop Product ID: E001 Price: Rs999.0 Brand: HP Warranty Period: 12 months Number of Available Items: 10 Product Type: Clothing Product Name: Shorts Product ID: C002 Price: Rs30.0 Size: L Color: Blue	----Product list---- Product Type: Electronics Product Name: Laptop Product ID: E001 Price: Rs999.0 Brand: HP Warranty Period: 12 months Number of Available Items: 10 Product Type: Clothing Product Name: Shorts Product ID: C002 Price: Rs30.0 Size: L Color: Blue	Pass

		Number of Available Items: 5	Number of Available Items: 5	
		Product Type: Electronics Product Name: TV Product ID: E002 Price: Rs1500.0 Brand: Samsung Warranty Period: 12 months Number of Available Items: 20 Print all the items.	Product Type: Electronics Product Name: TV Product ID: E002 Price: Rs1500.0 Brand: Samsung Warranty Period: 12 months Number of Available Items: 20 Print all the items.	
5	Enter 4 as the operator type	Data saved successfully to ProductListOfSystem.txt	Data saved successfully to ProductListOfSystem.txt	Pass
6	Enter 5 as the operator type	Data loaded successfully from ProductListOfSystem.txt	Data loaded successfully from ProductListOfSystem.txt	Pass
7	Enter 6 as the operator type	Exiting the program... Goodbye..	Exiting the program... Goodbye..	Pass

8	Enter 7 as the operator type	Open ShoppingGUI	Open ShoppingGUI	Pass
9	Enter 8 as the operator type	Invalid option... Try again.	Invalid option... Try again..	Pass
10	View Details of a Product in Shopping GUI	Product details should be displayed in the GUI	Product details should be displayed in the GUI	Pass

11	Add Product to Shopping Cart from GUI	The selected product should be added to the shopping cart	The selected product should be added to the shopping cart	Pass
12	Update Quantity of Product in Shopping Cart	The quantity of the selected product in the cart should be updated	The quantity of the selected product in the cart should be updated	Pass
13	Add Product with Invalid Price	Display an error message and ask the user to enter valid information	Display an error message and ask the user to enter valid information	Pass
14	Attempt to Load Corrupted Data File	Display an error message indicating that the file format is invalid	Display an error message indicating that the file format is invalid	Pass
15	Attempt to Add Product with Duplicate ID	Display an error message indicating that the product ID already exists	Display an error message indicating that the product ID already exists	Pass

Use Case Diagram

Class Diagram

If this is unclear, use this link:

https://drive.google.com/file/d/10OXtonPGDExKYm3QiDm3xCQijwVyqRvZ/view?usp=sharing

Junit Test