Coursework Test Plan

5COSC019C Object-Oriented Programming

Name: Ashfaq Farleen
IIT ID: 20221656
UOW ID: w1999414

Objective: Confirm that the program works as described in the coursework instructions and meets the outlined requirements.

Scope: The test plan encompasses both the console and GUI applications of the online shopping system. It addresses various management actions, including the addition and removal of products, list generation, and the secure handling of consultation details. Testing is designed to evaluate the functionality of key features, assess exception handling mechanisms, validate responses to incorrect inputs, and ensure the robustness of the application to prevent potential crashes. Additionally, the plan aims to verify the effectiveness of saving and reading operations from files, contributing to the overall reliability and stability of the online shopping system.

Test Environment: The test plan will be executed on a Windows 10 machine with 4 GB Ram and Intel Core i5 processor. The java version will be "17".

Test Cases:

Test ID	Test Case	Instructions	Expected Result	Actual Result	Status
C1	Program Starts from WestminsterShoppingManager	Run the WestminsterShoppingManager java file.	The program starts in the terminal by loading the products and users from file and displays menu.	The program runs as expected.	Pass
C2	Add a product to shop product list.	Add product by giving correct values for the fields.	Should add product to the shop product list	Adds product as expected	Pass
C3	Gives an incorrect product value	Enter an incorrect value for product details.	Should print an error message and requires to add details again.	System prompts incorrect message as expected	Pass
C4	Add a product already in the product list	Try to add an existing product with equal product id.	Should prompt that the product is available and requests to edit details	The system prompts that the product is available	Pass
C5	Remove a product from	Try to remove product from	The system	The system	Pass

	product list	the product list using product id	should be able to remove the product.	removes the product using product id.	
C6	Print products from product list	Run print Products from menu to print the list of products	The system should display the products available.	The system displays the products	Pass
C7	Save products to file	Run save prodcuts from menu to save the product list.	The products are added to a serialized file	The products are added to a file	Pass
C8	Save users to file	Save users data to a file	Write the user data to a txt file	Data is written to a file	Pass
C8	Create an account	Create an account in the terminal	Account is created	Account has been created	Pass
C9	Login to account	Login to user account	The system validates the login info.	The system gives the access for the user	Pass
C8	Load Products from file	Read product from the file and add the products to the array list	The system reads the files and adds each product.	Products are added to the array list.	Pass
C9	Load Users from file	Read users from the file and add the users to the array list	The system reads the files and adds each user.	Products are added to the array list.	Pass
C11	Launch GUI	Launch GUI from the menu.	The system opens the GUI from the terminal for the customer.	GUI is opened from the terminal.	Pass
C12	Display Products in GUI	Open the GUI and GUI displays products in table	The frame should display the products in a table.	The frame displays the products in a table.	Pass
C13	Filter using JComboBox	Filter the table using JComboBox	The category products should be sorted.	Sorted according to category.	Pass
C14	Display product details	Click product in table to	If table cell is	Product	Pass

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		display details.	click corresponding product details will be shown below	Details is known.	
C15	Add a product to cart	Click add to cart button to add the product to cart	Clicked product should be added to the cart	Product is added to the cart.	Pass
C16	Highlight product less than 3	Add product until product item available becomes less than 3	Row needs to get highlighted id product available is less than 3	Row is getting highlighted	Pass
C17	Update product items available.	Add product to cart to update product available count	Product available should decrease when user adds to cart	Items available is getting decreased	Pass
C18	View Shopping Cart	Open Shopping cart using view cart button in the GUI	Cart should be displayed with product and quantity and price	Cart is displayed with the product and the total price adjusted with discounts	Pass
C19	Save edited products	Close the GUI to update the serialize file.	Should update the file when the frame is closed	Product details get updated	Pass