

Informatics Institute of Technology

in collaboration with

University of Westminster, UK

5COSC019C.1

Object Oriented Programming

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Console Test Plan

Test No	Test Case	Expected Result	Actual Result	Pass/Fail
01.	Program starts.	Should Shows “Enter A for Admin, U for User, or Q to Quit”.	Showed “Enter A for Admin, U for User, or Q to Quit”.	Pass
02.	User enters Option “A”.	Should Show the menu.	Showed the menu.	Pass
03.	User enters Option “U”.	Should Load the GUI.	Loaded the GUI.	Pass
04.	User enters Option “Q”.	Program should Quit with an “Exiting the system...” message.	Program Quits with an “Exiting the system...” message.	Pass
05.	User enters an Invalid Option.	“Invalid input. Please enter 'A', 'U', or 'Q'.” message should appear	“Invalid input. Please enter 'A', 'U', or 'Q'.”message appeared	Pass
06.	User enters Lowercase inputs of ‘A’,’U’ or ‘Q’.	System should works the same as when inputting the upper case value.	System worked the same as when inputting the upper case value.	Pass
06.	User enters 1 in the Menu Option.	addNewProduct() method should calls.	addNewProduct() method called.	Pass
07.	User enters 2 in the Menu Option.	The deleteNewProduct() method should calls.	The deleteNewProduct() method is called.	Pass
08.	User enters 3 in the Menu Option.	The printProductList() method should call and products should display.	The printProductList() method is called and products are displayed.	Pass
09.	User enters 4 in the Menu Option.	The saveProductList() method should call, and data should save to the file with the message “Product list appended to the file	The saveProductList() method called, and data saved to the file with the message “Product list appended to the file	Pass

		successfully.”	successfully.”	
10.	User enters 5 in the Menu Option.	The System should reads and loads the data from the file.	The System read and loaded the data from the file.	Pass
11.	User enters 6 in the Menu Option.	The System should display “Existing from Westminster shopping manager” message	The System displayed “Existing from Westminster shopping manager” message	Pass
12.	User didn't enter a valid Menu Option.	“Invalid Choice.Please Enter a valid Option”.message should appears	“Invalid Choice.Please Enter a valid Option” message appeared	Pass
13.	User enters a non-integer input in the Menu Option.	“Enter a valid Integer Value”.message should appears	“Enter a valid Integer Value” message appeared	Pass
14.	The user adds a new electronic product when the product list is not full.	“Electronics Product added Successfully”.message should appears	“Electronics Product added Successfully” message appeared	Pass
15.	The user adds a new clothing product when the product list is not full.	“Clothing Product added Successfully”.message should appears	“Clothing Product added Successfully” message appeared	Pass
16.	The user enters an invalid value for the following scenario: “Select product type to add: 1. Electronics 2. Clothing Enter product type (1 for Electronics or 2 for Clothing): ”	“Invalid input. Please try again.”message should appears	“Invalid input. Please try again.”message appeared	Pass
17.	The user adds a	“Maximum product	“Maximum product	Pass

	new product(Electronic/Clothing) when the MAX_PRODUCTS limit is reached.	limit reached" message should appear	limit reached" message appeared	
18.	User tries to add a non-integer value for the available item value entry(Electronic/Clothing).	"Invalid input.Please Try again" Message should appear	"Invalid input.Please Try again" appeared	Pass
19.	User tries to add products with duplicate product ID's .	First product will add to the product list and then displays a message saying "Error: A product with this ID already exists. Please enter a unique ID."	First product added to the product list and then displayed a message saying "Error: A product with this ID already exists. Please enter a unique ID."	Pass
20.	User tries to add a non-integer/non-double value for the Price value entry(Electronic/Clothing).	"Invalid input.Please Try again" Message should appear	"Invalid input.Please Try again" message appeared	Pass
21.	The user deletes a product that exists the list using the productID.	System should delete the item and shows the information about the deleted item and the Total number of products left with a success message of "Product deleted successfully."	Deleted the item and showed the information about the deleted item and the Total number of products left with a success message of "Product deleted successfully."	Pass
22.	The user deletes a product that doesn't exist in the list using the productID.	A message indicating "Product not found. Please enter a valid product ID." should display and prompts the user to enter the value again.	A message indicating "Product not found. Please enter a valid product ID." displayed and prompted the user to enter the value again.	Pass
23.	Attempting to Delete from an Empty Product	A message indicating "product list is empty" should	A message indicating "product list is empty" appeared.	Pass

	List.	appear.		
24.	The user prints the Empty Product List.	Message, should show as "There aren't any products on the list."	Message, showed as "There aren't any products on the list."	Pass
25.	The user prints the product list that isn't empty.	The product list should print according to ascending order based on the product ID.	The product list printed according to ascending order based on the product ID.	Pass
26.	The user enters a password with an invalid format (the correct format should be a password with a minimum of 8 characters and include at least one number).	"Invalid password format. Please try again." message should appears	"Invalid password format. Please try again." message appeared	Pass
27.	After exiting from the Westminster menu, Admin enters the "Y" or 'y' for the "Do you want to continue as an admin? (Y/N)"	The user will redirect to the menu .	The user redirected to the menu	Pass
28.	After exiting from the shopping GUI, the user enters the "Y" or 'y' for "Do you want to continue as a user? (Y/N)".	The user will be redirected to prompt the username and password again, and the GUI will open again.	The user redirected to prompt the username and password again, and the GUI opened again.	Pass
29.	After exiting from the Westminster menu or Shopping GUI, the admin or user enters the "N" or 'n' for "Do you want to continue as an admin or a	A message "Enter 'A' for Admin, 'U' for User, or 'Q' to Quit" will display.	A message "Enter 'A' for Admin, 'U' for User, or 'Q' to Quit" displayed.	Pass

	user? (Y/N)".			
30.	After exiting from the Westminster menu or Shopping GUI, the admin or user enters the "Q" or 'q' for "Do you want to continue as an admin or a user?"(Y/N)"	A message of "Exiting the system..." will display and the program ends.	A message of "Exiting the system..." displayed and the program ends.	Pass
31.	After exiting from the Westminster menu or Shopping GUI, the admin or user enters the invalid input (a non-string type or a string that does not equal Y or N) for "Do you want to continue as an admin or a user? (Y/N)"	A message of "Invalid input. Please enter 'A', 'U', or 'Q'." will display and prompt the user to enter the value again.	A message of "Invalid input. Please enter 'A', 'U', or 'Q'." displayed and prompted the user to enter the value again.	Pass
32.	User saves 3 product items to the file, ends the program and restarts the program and enters option 5 in the menu.	Data will load into the ProductList ArrayList, and the "Data" loaded successfully message will print after a successful data loading process.	Data loaded into the ProductList ArrayList, and the "Data" loaded successfully message printed after a successful data loading process.	Pass
33.	Admin loads the previous data and enters option 1 to enter new data, then enters the product ID that's already in the list.	An error message indicating "Error: A product with this ID already exists. Please enter a unique ID." should display.	An error message indicating "Error: A product with this ID already exists. Please enter a unique ID." displayed.	Pass
34.	Attempt to add a product with an invalid price, warranty period, or available items,	An error message indicating "Invalid input.Please enter a non-negative integer value" should display.	An error message indicating "Invalid input.Please enter a non-negative integer value" displayed.	Pass

	such as a negative value.			
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Graphical User Interface Test Plan

35.	3 products were added by the "Admin" in a previous attempt.	Three products, along with their details, should display in table format in the GUI.	Three products, along with their details, were displayed in table format in the GUI.	Pass
36.	One product had been added by the "Admin" in a previous attempt, with an availability of two items.	One product, along with its details, should display in the GUI, with the row highlighted in red.	One product, along with its details, was displayed in the GUI, with the row highlighted in red.	Pass
37.	The user clicks on an item in the GUI.	The entire row should highlight in yellow to indicate that the user had chosen that item, and the product details related to that item should display under the table.	The entire row was highlighted in yellow to indicate that the user had chosen that item, and the product details related to that item were displayed under the table.	Pass
38.	The user clicks on "Add to Shopping Cart."	The product should be able to add to the shopping cart with a success message stating "Item added to cart."	The product was added to the shopping cart with a success message stating "Item added to cart."	Pass
39.	The user clicks the "Add to Shopping Cart" button without selecting a product in the product table.	Should provide a message indicating the need to select a product.	provided a message indicating the need to select a product.	Pass
40.	Apply both first purchase and same category discounts	Both the first purchase discount (10%) and same category	Both the first purchase discount (10%) and same	Fail

	simultaneously.	discount (20%) should be applied to the cart totals.	category discount (20%) applied to the cart totals.but it does apply when the same user logs into the system more than twice.	
41.	The user selects products from different categories (e.g., electronics and clothing) in the product table and adds them to the cart.	Products from different categories should be added to the cart, and the cart totals should be updated accordingly.	Products from different categories added to the cart, and the cart totals updated accordingly.	Pass
42.	The user clicks on different products in the product table.	Product details in the product details panel should update to match the selected product.	Product details in the product details panel updated to match the selected product.	Pass
43.	The user attempts to add a product item to the shopping cart, but it has an availability of 0.	A message indicating "This item is no longer available" should appears.	A message indicating "This item is no longer available" appeared.	Pass
44.	The user Selects the "Electronic " category from the drop-down menu.	Items related to the Electronic category should only appears.	Items related to the Electronic category only appeared.	Pass
45.	The user selects the "Clothing" category from the drop-down menu.	Items related to the Clothing category should only appeared.	Items related to the Clothing category only appeared.	Pass
46.	User adds three items from the same category and clicks the Shopping Cart Button.	The GUI Should Display items in the shopping cart with their quantities and prices, and applied a 20% discount to the total.	Displayed items in the shopping cart with their quantities and prices, and applied a 20% discount to the total.	Pass
47.	The user shops for the first time and	GUI Should Apply a 10% discount to the	Applied a 10% discount to the total	Fail

	buys items and clicks the shopping cart.	total price.	price.But the Same user gets the discount again and again	
48.	The user saves 3 product items to the file, ends the program and restarts the program and enters option 5 in the menu.Then the user opens up the GUI.	The previous products that were saved will display along with a description.	The previous products that were saved displayed along with a description.	Pass
49.	The user clicks on the ProductID section to Sort the data.	The Product data will sort based on the product ID.	The Product data sorted based on the product ID.	Pass