



Informatics Institute of Technology

Department of Computing

Object Oriented Programming

Test Plan

Module : 5COSCO19C.1 Object Oriented Programming

(2022)

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Date of Submission: 15/01/2024

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Test Cases

	T	1 est Cases	T	1
Use case Number	Test Case	Test Input	Expected Result	Actual Res
1.	Program prompts to load previously saved data and displays a Console Menu containing all menu options.	N/A	Program prompts to load previously saved data and displays a Console Menu containing all menu options.	Program pron load previously data and disp Console M containing all options
2.	Console Menu Option No. 1 Add A New Product	N/A	N/A	N/A
3.	Program prompt the user to Enter 1 for Clothing item and Enter 2 for Electronic Item.	N/A	Program prompt the user to Enter 1 for Clothing item and Enter 2 for Electronic Item.	Program pron user to Enter Clothing item a 2 for Electroni
4.	Error message will display if user enters invalid integer or a String.	Input: abc	Displays "Invalid input! Please enter a valid Integer."	Displays "Inval Please enter a Integer."
5.	Program will successfully prompt the user with the relative statements based on the input	Input: 1	Displays "Enter the Product ID of the Clothing"	Displays "En Product ID o Clothing

6.	Program will successfully prompt the user with the relative statements based on the input	Input: 2	Displays "Enter the Product ID of the Electronic"	Displays "En Product ID o Electroni
7.	Program displays user to input statements to Enter The Product ID for the Electronic item	N/A	Program displays user input statements to Enter The Product ID	Program displating input statemed Enter The Program
8.	Error messages are displayed if user enters two strings as an ID	Input: Abc 123	Displays "Invalid input. Please enter a single word"	Displays "Inval Please enter a word"
9.	Product ID is successfully added if it matches the correct format.	Input: E001	Product ID is successfully added if it matches the correct format.	Product II successfully admatches the offermat.

10.	Program displays user input statements to Enter the Product Name	N/A	Program displays user input statements to Enter the Product Name	Program displation input statements. Enter the Produ
11.	Product name is successfully added if it matches the correct format.	Input: Phone	Product name is successfully added if it matches the correct format.	Product nar successfully ad matches the c
12.	Program displays user input statements to Enter Product Items	N/A	Displays "Enter the number of Phones adding to the System"	Displays "En number of P adding to the S
13.	Error messages are displayed if user enters String values	"Enter the number of Phones adding to the System:" Input: abc Input: a Input: #	Displays "Invalid input. Please enter a valid integer"	Displays "Inval Please enter a integer'
14.	Product quantity is successfully added if it matches the correct format.	"Enter the number of Phones adding to the System:" Input: 10	Product quantity is successfully added if it matches the correct format.	Product quan successfully ad matches the conformat.

15.	Program displays user input statements to Enter Price of the product	N/A	Program displays user input statements to Enter Price of the product	Program displ input statem Enter Price produc
16.	Error messages are displayed if user enters String values	Enter the price of the Electronic: Input: abc Input: a Input: #	Displays "Invalid input. Please enter a valid decimal number"	Displays "Inval Please enter a decimal nun
17.	Price of the product is successfully added if it matches the correct format.	Price of the product: Input: 4500.67	Price of the product is successfully added if it matches the correct format.	Price of the prosuccessfully admatches the conformat.
18.	Program displays user input statements to Enter The Product brand	N/A	Displays "Enter the Brand of the Electronic:"	Displays "En Brand of the El :"
19.	Program displays user input statements to Enter The Product warranty period	N/A	Displays "How long is the warranty of the Electronic(in months):".	Displays "How the warranty Electronic(in m
20.	Error messages are displayed if the user enters string values or if the integer value is not between 1 and 12.	How long is the warranty for one Iron (in months): Input: aaa Input: 19	Displays "Invalid input. Please enter a valid integer" Displays "Enter a number between 1-12"	Displays "Inval Please enter a integer" Displays "En number betwee

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21.	Warranty of the product is successfully added if it matches the correct format.	How long is the warranty for one Iron (in months): Input: 5	Price of the product is successfully added if it matches the correct format.	Price of the prosuccessfully ad matches the control format.
22.	All the details of the product successfully added if it matches the correct format.	N/A	Displays "New Electronic successfully added to the System!"	Displays "I Electronic succ added to the Sy
23.	Console Menu Option No. 2 Delete Product	N/A	N/A	N/A
24.	Program displays an appropriate message if there are no products added to the system.	N/A	Displays "There is no Products in the System to Delete"	Displays "The Products in the to Delete
25.	Error messages are displayed if user enters Invalid Product Id	ProductID: Input: abc	Program displays "Couldn't find any matching product with the ID + ID".	Program dis "Couldn't fir matching prod- the ID + II

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26.	The product ID is successfully deleted if it matches the correct format and corresponds to a product in the system.	ProductID: Input: C001	Displays "The product successfully deleted from the system" along with it's Details	Displays "The successfully of from the system with its De
27.	Console Menu Option No. 3 to View List Of Products	N/A	N/A	N/A
28.	Program displays an appropriate message if there is no products in the system to print.	N/A	Displays "No products In The System to print!".	Displays "No p In The Syste print!".
29.	If there are Products in the system, Program is displaying the list of Products with all the related information and the list is sorted alphabetically according to ID of the Products.	N/A	Display all the Products Alphabetically based on Their Product ID	Display all the Alphabetically Their Produ
30.	Console Menu Option No. 4 to save the products in a file.	N/A	N/A	N/A
31.	All the program data is successfully stored in the text file.	<u>-</u>	Program stores all The data in to the text file and displays following confirmation message "All the Products have successfully saved to the file!"	Program stor The data in to file and displated following confirmated message "All the Production successfully successful successf

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User is able to read back all the stored data when running a new instance of the application.	-	The user can successfully load the saved data by starting a fresh instance of the program.	The user of successfully the saved da starting a f instance of program
Console Menu Option No. 5 Open User Interface	N/A	N/A	N/A
Opens Graphical User Interface from The Console Menu	N/A	Opens Graphical User Interface from The Console Menu	Opens Grap User Interface The Console
Displays a new login frame with two text fields for User ID and password, along with three buttons for Login, and Sign Up.	N/A	Displays a new login frame with two text fields for User ID and password, along with two buttons for Login and Sign Up.	Displays a new frame with twe fields for User password, alone two buttons for and Sign V
An error message will be displayed if the user doesn't exist or if the user enters the wrong username or password.	-	Display "Invalid username or password"	Display "In username or pa
Users can successfully log into the system or sign up by providing the correct details.	N/A	Program will display the product menu	Program will the product
	all the stored data when running a new instance of the application. Console Menu Option No. 5 Open User Interface Opens Graphical User Interface from The Console Menu Displays a new login frame with two text fields for User ID and password, along with three buttons for Login, and Sign Up. An error message will be displayed if the user doesn't exist or if the user enters the wrong username or password. Users can successfully log into the system or sign up by providing the correct	all the stored data when running a new instance of the application. Console Menu Option No. 5 Open User Interface Opens Graphical User Interface from The Console Menu Displays a new login frame with two text fields for User ID and password, along with three buttons for Login, and Sign Up. An error message will be displayed if the user doesn't exist or if the user enters the wrong username or password. Users can successfully log into the system or sign up by providing the correct	all the stored data when running a new instance of the application. Console Menu Option No. 5 Open User Interface Opens Graphical User Interface from The Console Menu Displays a new login frame with two text fields for User ID and password, along with three buttons for Login, and Sign Up. An error message will be displayed if the user enters the wrong username or password. Users can successfully log into the system or sign up by providing the correct N/A N/A N/A N/A Opens Graphical User IN/A Displays a new login frame with two text fields for User ID and password, along with two text fields for User ID and password, along with two buttons for Login and Sign Up. An error message will be displayed if the user enters the wrong username or password. Users can successfully log into the system or sign up by providing the correct N/A Displays a new login frame with two text fields for User ID and password, along with two buttons for Login and Sign Up. Display "Invalid username or password" Program will display the product menu

38.	Users can select product categories from the combo box	N/A	Users are able to select product categories from the combo box	Users are able product categor the combo
39.	Users can select a Product to view it's full details	N/A	Users can select a Product to view it's full details	Users can se Product to view details
40.	Users can add the selected product to the cart with the desired quantity for purchase.	N/A	Users can add the selected product to the cart with the desired quantity for purchase.	Users can ac selected produc cart with the c quantity for pu
41.	The 'Shopping Cart' button shows the products that the user selected, and a new frame will be displayed.	N/A	The 'Shopping Cart' button shows the products that the user selected, and a new frame will be displayed.	The 'Shoppin button show products that t selected, and frame will be di
42.	User gets 10% discount for the very first purchase.	N/A	User gets 10% discount for the very first purchase.	User gets 10% of for the very purchase
43.	User gets 20% discount for more than 3 items in a same category.	N/A	User gets 20% discount for more than 3 items in a same category.	User gets 20% of for more than 3 a same cates

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44.	Final bill will be displayed based on the discount amounts for the user below the cart	N/A	Final bill will be displayed based on the discount amounts for the user below the cart	Final bill windisplayed based discount amouthe user below
45.	The user can click on the Proceed button in the Shopping Cart GUI to finalize the order	N/A	The cart will be cleared, and all the data will be updated.	The cart will be and all the data updated
46.	Console Menu Option No. 6 to Exit the Program	-	N/A	N/A