

Informatics Institute of Technology

Object-Oriented Programming

5COSC019C.1

Coursework 1 Test Cases

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1 Test Cases for Console Application

Table 1 Test Case For Console part of the program

Test Component	Test No.	Test Input	Expected Result	Actual Result	Pass/Fail
Welcome Screen	1.1	Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 32	Invalid choice. Please enter a number between 1 and 3.	Invalid choice. Please enter a number between 1 and 3.	Pass
	1.2	Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string	Invalid input. Please enter a valid number.	Invalid input. Please enter a valid number.	Pass
	1.3	Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 1	Manager has been chosen	Manager has been chosen	Pass
Manager password validation	2.1	Enter manager password: qwerty	Invalid Password. Please try again.	Invalid Password. Please try again.	Pass
	2.2	Enter manager password: admin123	Authentication successful!	Authentication successful!	Pass

Add a new product	3.1.1	Enter your choice: asd	Invalid input. Please enter a valid number.	1. Electronic 2. Clothing Choose an option [1, 2]:	Pass
	3.1.2	Enter your choice: 8	Invalid choice. Please enter a number between 1 and 5.	Invalid choice. Please enter a number between 1 and 5.	pass
	3.1.3	Enter your choice: 1	Choose product type to add: 1. Electronics 2. Clothing Enter your choice:	Choose product type to add: 1. Electronics 2. Clothing Enter your choice:	pass
	3.2.1	Choose product type to add: 1. Electronics 2. Clothing Enter your choice:4	Invalid choice. Please enter a number between 1 and 2.	Invalid choice. Please enter a number between 1 and 2.	Pass
	3.2.2	Choose product type to add: 1. Electronics 2. Clothing	Invalid input. Please enter a valid number.	Invalid input. Please enter a valid number.	Pass

		Enter your choice:asd			
	3.2.3	Choose product type to add: 1. Electronics 2. Clothing Enter your choice:1	Enter product details for Electronics:	Enter product details for Electronics:.	Pass
	3.3.1	Enter Product ID (must start with 'A' followed by at least 3 digits): d321	Wrong ID format. Please enter a valid Electronics product ID.	Wrong ID format. Please enter a valid Electronics product ID.	Pass
	3.3.2	Enter Product ID (must start with 'A' followed by at least 3 digits): 321	Input must be at least 4 characters long. Please try again.	Input must be at least 4 characters long. Please try again.	Pass
	3.3.3	Enter Product ID (must start with 'A' followed by	Enter Product Name:	Enter Product Name:.	Pass

		at least 3 digits): a123			
	3.3.4	Enter Product ID (must start with 'A' followed by at least 3 digits): A123	Enter Product Name:	Enter Product Name:.	Pass
	3.4.1	Enter Product Name: phone	Enter Available Number of Items:	Enter Available Number of Items:	Pass
	3.4.1	Enter Available Number of Items: 0	Invalid choice. Please enter a number between 1 and 1000.	Invalid choice. Please enter a number between 1 and 1000.	Pass
	3.4,2	Enter Available Number of Items: 12	Enter Price of Item:	Enter Price of Item:	Pass
	3.5.1	Enter Price of Item:0	Invalid price. Please enter a non-zero value.	Invalid price. Please enter a non-zero value.	Pass
	3.5.2	Enter Price of Item: -98	Invalid price. Please enter a non-negative value.	Invalid price. Please enter a non-negative value.	Pass

	3.5.3	Enter Price of Item: 350	Value accepted then Enter Item Brand Name:	Value accepted then Enter Item Brand Name:	Pass
	3.6.1	Enter Item Brand Name: dell	Value accepted Then Enter Item Warranty Period (in weeks)	Value accepted Then Enter Item Warranty Period (in weeks)	Pass
	3.7.1	Enter Item Warranty Period (in weeks): get	Invalid input. Please enter a valid number.	Invalid input. Please enter a valid number.	Pass
	3.7.2	Enter Item Warranty Period (in weeks): -9	Invalid choice. Please enter a number between 0 and 1000.	Invalid choice. Please enter a number between 0 and 1000.	Pass
	3.7.3	Enter Item Warranty Period (in weeks): 12	Electronics product added successfully!	Electronics product added successfully!	Pass
Delete a Product	4.1.1	Enter your choice: 2	Value accepted, Available Product IDs: saved values	Value accepted, Available Product IDs: saved values	Pass

	4.1.2	Enter Product ID to delete: id that is not in the list	Invalid Product ID. Please enter a valid ID.	Invalid Product ID. Please enter a valid ID.	Pass
	4.1.3	Enter Product ID to delete: id that is in the list	Are you sure you want to delete this product? (Y/N)	Are you sure you want to delete this product? (Y/N)	pass
	4.1.4	Are you sure you want to delete this product? (Y/N) s	Invalid choice. Please try again. Are you sure you want to delete this product? (Y/N)	Invalid choice. Please try again. Are you sure you want to delete this product? (Y/N)	pass
	4.1.4	Are you sure you want to delete this product? (Y/N) y	Deleted product information: Product deleted successfully! Total number of products left in the system:	Deleted product information: Product deleted successfully! Total number of products left in the system:	pass
	4.1.4	Are you sure you want to delete this product? (Y/N) n	Deletion canceled	Deletion canceled	pass
Display Product List	5	Enter your choice: 3	=== Product List === with all the product	=== Product List === with all the product	pass

			information that has been saved	information that has been saved	
Save Products to File	6	Enter your choice: 4	====Product details saved to file successfully!====	====Product details saved to file successfully!====	pass
Exit	7	Enter your choice: 5	Exiting program...	Exiting program...	pass
Customer register	8	Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 2	Accepted value Do you have an account? 1. Yes 2. No Enter your choice:	Accepted value Do you have an account? 1. Yes 2. No Enter your choice:	pass
	8.1.1	Do you have an account? 1. Yes 2. No Enter your choice: 2	Register Menu Enter a new username:	Register Menu Enter a new username:	pass
	8.1.1.1	Enter a new username: steve	Accepted , Enter a password (at least 6 characters):	Accepted , Enter a password (at least 6 characters):	pass
	8.1.2	Accepted , Enter a password (at least 6	Input must be at least 6 characters long. Please try again.	Input must be at least 6 characters long. Please try again.	pass

		characters): qwe			
	8.1.3	Accepted , Enter a password (at least 6 characters): dillon123	User registration successful! Shopping Center GUI created	User registration successful! Shopping Center GUI created	pass
	8.1.1.2	Enter a new username: user name that already exist	Username already exists. Do you want to login instead? 1. Yes 2. No Enter your choice:	Username already exists. Do you want to login instead? 1. Yes 2. No Enter your choice:	pass
Customer login	9	Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 2	Do you have an account? 1. Yes 2. No Enter your choice:	Do you have an account? 1. Yes 2. No Enter your choice:	pass
	9.1.1	Do you have an account? 1. Yes 2. No Enter your choice: 1	Accepted value Login Menu Enter a new username:	Accepted value Login Menu Enter a new username:	pass
	9.1.1.1	Accepted value Login Menu	Enter your password:	Enter your password:	pass

		Enter a new username: incorrect user name			
	9.1.1.2	Enter your password: incorrect password	Incorrect username or password.	Incorrect username or password.	pass
	9.1.2.1	Accepted value Login Menu Enter a new username: correct user name	Enter your password:	Enter your password:	pass
		Enter your password: correct password	Login successful! Shopping Center GUI created	Login successful! Shopping Center GUI created.	pass

2 Test Cases for GUI Application

Table 2 Test Case For GUI part of the program

Test Component	Test No.	Test Input	Expected Result	Actual Result	Pass/Fail
Category Selection from the dropdown	1.1	Choose Category as "All"	All the items in the system are in alphabetical order.	All the items in the system are in alphabetical order.	pass
	1.2	Choose the Category as "Electronic"	All the Electronic items in the system are in alphabetical order.	All the Electronic items in the system are in alphabetical order.	pass
	1.3	Choose Category as "Clothing."	All the Clothing items in the system are in alphabetical order.	All the Clothing items in the system are in alphabetical order.	pass
Select an item in the table	2.1	Select a row in the product table. (stock is more than 3)	The row highlighted with blue colour and information display area got updated.	The row highlighted with blue colour and information display area got updated.	Pass
		Select a row in the product table. (stock is less than 3)	The row highlighted with red colour and information display area got updated.	The row highlighted with red colour and information display area got updated.	pass
Click add to cart	3.1	Click add to cart after selecting a product	The item getting updated in the cart.	The item getting updated in the cart.	pass
	3.2	Click add to cart without selecting an item	A warning message pop-up	A warning message pop-up	pass

			saying No item selected. Please select an item to add to the shopping cart.	saying No item selected. Please select an item to add to the shopping cart.	
	3.3	Click add to cart on an item that has 0 availability	A warning message pop-up saying the Selected item is not available.	A warning message pop-up saying the Selected item is not available.	pass
Total and discounts	4.1	The user buys at least three items from the same category.	The 20% discount is being calculated.	The 20% discount is being calculated.	pass
	4.2	First-time user buys products.	10% discount is getting calculated.	10% discount is getting calculated.	pass
Application when getting closed	5.1	User closes the application.	The GUI closes, saving the current product details to the file	The Gui closes, saving the current product details to the file	pass