

Informatics Institute of Technology  
BEng (Hons) in Software Engineering

# **Object Oriented Programming**

COSC019C

## **Test Cases**

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## Westminster Shopping Centre - Test Cases

Test Case NO.	Testcase Description	Test Case- steps	Pre-Conditions	Expected Result	Actual Result	Pass/Fail
CONSOLE MENU - Test Cases (Admin View)						
1	Add products to the system.	<ol style="list-style-type: none"> <li>1. Start the application.</li> <li>2. Choose the user type: Admin.</li> <li>3. Select the option ("1") to enter products into the system.</li> <li>4. Choose to add a new product.</li> <li>5. Provide product information (product ID, name, items, price, etc.).</li> <li>6. Verify the added product in the system.</li> </ol>	Westminster Shopping Manager is running.	The product should be added to the system, and the system should display a confirmation message.	The product was added to the system, and the system displays a confirmation message.	PASS
	Verify the addition of a new clothing product with valid details.	<ol style="list-style-type: none"> <li>1. If product type = "clothing".</li> <li>1. Add clothing method should be executed, and the manager should add product ID, product name, available items, price, size, and colour.</li> </ol>	Westminster Shopping Manager is running.	A new clothing product is added to the product list.	A new clothing product is added to the product list.	PASS

	Verify the addition of a new electronics product with valid details.	<ol style="list-style-type: none"> <li>1. If product type = "electronics".</li> <li>2. The Add Electronics method should be executed, and the manager should add product ID, product name, available items, price, brand, and warranty period.</li> </ol>	Westminster Shopping Manager running.	A new electronics product is added to the product list.	A new electronics product is added to the product list.	PASS
	Verify the error handling for adding (Electronics / Clothing) Product with an empty Product ID.	<ol style="list-style-type: none"> <li>1. If product type = "electronics".</li> <li>2. Enter ID.</li> </ol>	Westminster Shopping Manager is running.	Program should print an error message saying "Product ID cannot be empty."	Program printed an error message saying "Product ID cannot be empty."	PASS
	Verify the handling of adding more than 50 products to Westminster Shopping Manager.	<ol style="list-style-type: none"> <li>1. Admin adding products more than 50.</li> </ol>	Westminster Shopping Manager is running.	The program should print an error message.	The program printed an error message.	PASS

2	Delete a product from the system	<ol style="list-style-type: none"> <li>1. Start the application.</li> <li>2. Choose the user type: Admin.</li> <li>3. Select the option ("2") to enter products into the system.</li> <li>4. Choose to delete a product.</li> <li>5. Enter the product ID to delete.</li> <li>6. Verify the product is removed, and the total number of products is updated.</li> </ol>	<p>Westminster Shopping Manager is running.</p> <p>Products are available in the system.</p>	The specified product should be deleted, and the system should display a confirmation message with the updated product count.	The specified product has been deleted, and the system displayed a confirmation message with the updated product count.	PASS
3	Printing the list of products added to the system.	<ol style="list-style-type: none"> <li>1. Start the Westminster Shopping Manager.</li> <li>2. Choose the user type: Admin.</li> <li>3. Select the option ("3") to enter products into the system.</li> <li>4. Add multiple products with various names in a non-alphabetical order.</li> <li>5. Choose the option to print the list of products.</li> </ol>	<p>Westminster Shopping Manager is running.</p> <p>Products are available in the system.</p>	<p>The system should print the list of products in alphabetical order based on product names.</p> <p>Each product's information should be displayed correctly.</p>	<p>The system printed the list of products in alphabetical order based on product names.</p> <p>Each product's information was displayed correctly.</p>	PASS

		6. Observe the printed list.				
4	Save and Product Information.	<ol style="list-style-type: none"> <li>1. Start a new instance of the application.</li> <li>2. Choose the user type: Admin.</li> <li>3. Select the option ("4") to load products from a file.</li> <li>4. Enter the filename to load.</li> <li>5. Verify the products are loaded successfully.</li> </ol>	<p>Westminster Shopping Manager is running.</p> <p>Products are available in the system.</p>	Products should be saved to a file successfully.	Products have been saved to a file successfully.	PASS
5	Load Product Information	<ol style="list-style-type: none"> <li>1. Start the application.</li> <li>2. Select the option ("5") to enter products into the system.</li> <li>3. Choose to save products to a file.</li> <li>4. Enter a filename to save.</li> </ol>	<p>Westminster Shopping Manager is running.</p> <p>Products are available in the system.</p>	Products saved in a file should be loaded successfully in a new instance.	Products saved in a file have been loaded successfully in a new instance.	PASS
7	Customer view GUI activation.	<ol style="list-style-type: none"> <li>1. Select the option ("6") to view customer view.</li> </ol>	Westminster Shopping Manager is running.	GUI should be activated.	GUI got activated.	PASS

8	Exit from the system.	1. Select the option ("0") to exit from the system.	Westminster Shopping Manager is running.	The program should be terminated.	Program terminated.	PASS
GUI - Test Cases (Customer View)						
10	Verify the functionality of displaying a list of products in the GUI.	1. Open the GUI. 2. Observe the list of products with information.	GUI is open, and the admin adds products.	All products added by the admin are displayed with the required information.	The list of products with the specified information is successfully displayed in the GUI.	PASS
	Verify the highlighting of items with low availability.	1. Open the GUI. 2. Observe the list of products with availability less than 5.	GUI is open, and products with availability of less than 5 are present.	Products with availability less than 5 should be highlighted in red	Products with availability less than 5 are correctly marked in red.	PASS

	<p>Verify the display of product details when selected.</p>	<ol style="list-style-type: none"> <li>1. Open the GUI.</li> <li>2. Select a product from the list.</li> </ol>	<p>GUI is open, and products are present in the list.</p>	<p>All details of the selected product are displayed in the below panel.</p>	<p>The user selection is correctly displayed in the below panel.</p>	<p>PASS</p>
	<p>Verify the addition of products to the shopping cart.</p>	<ol style="list-style-type: none"> <li>1. Open the GUI.</li> <li>2. Select a product and add it to the shopping cart.</li> </ol>	<p>GUI is open, and products are available in the list.</p>	<p>The shopping cart frame pops up, and all product information is displayed, including the total.</p>	<p>The shopping cart frame appears, displaying all product information and the total.</p>	<p>PASS</p>

	<p>Verify the correct display of the final price with discounts.</p>	<ol style="list-style-type: none"><li>1. Open the GUI.</li><li>2. Add products to the shopping cart, including applicable discounts.</li></ol>	<p>GUI is open, and products are available in the list.</p>	<p>The final price, considering any applicable discounts, should be correctly displayed.</p>	<p>The total is correctly displayed, considering discounts as per specification.</p>	<p>PASS (Partially completed for discounts)</p>
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