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| Test Scenario Description | Test Case Description | Test Steps | Pre-Conditions | Expected Result | Test Data | Result |
| Manager add new product to the system. | Ensure manager can successfully add new electronics product to the system. | 1.Access the “Add a new product” menu. 2 .Enter details for a new electronics product. | User must have to app open. | New electronic product I added to the system. | ProductID: E001, Name: Laptop, Quantity: 1, Price: 100000, Brand: Dell, Warranty Period : 1yr | Pass |
| Manager add new product to the system. | Ensure manager can successfully add new clothing product to the system. | 1.Access the “Add a new product” menu. 2 .Enter details for a new clothing product. | User must have to app open. | New clothing  product I added to the system. | ProductID: C001, Name: Shirt, Quantity: 1, Price: 2000, Color: Blue, Size: M | Pass |
| Attempt to add a product with an existing ID | Ensure the system prevents adding a product with an existing product ID | 1. Access the "Add New Product" menu. 2. Enter details with an existing product ID. | User must have to app open. | Existing product with the same ID is displayed, and an error message is shown which is “Product ID is already exists.”. | Product ID: E001 | Pass |
| Manager attempts to add a new product when the maximum limit of 50 products is reached | Ensure the system prevents adding a new product when the maximum limit is reached | 1. Add 50 products to the system. 2. Attempt to add a new product. | System must contain 50 products in the list. | “Maximum numbers of products have been reached.” error message is displayed. | Product ID: E002, Name: TV, Quantity: 10, Price: 50000 | Pass |
| Manager deletes an electronics product | Ensure the manager can successfully delete an electronics product from the system | 1. Access the "Delete Product" menu. 2. Enter the product ID for an existing electronics product. | System must have pre added products. | Existing electronics product is deleted, and system updates the total number of products and message is shown “Product has been removed successfully. Remaining products: ”. | Product ID: E001 | Pass |
| Manager deletes an clothing product | Ensure the manager can successfully delete an clothing  product from the system | 1. Access the "Delete Product" menu. 2. Enter the product ID for an existing clothing product. | System must have pre added products. | Existing clothing product is deleted, and system updates the total number of products and message is shown “Product has been removed successfully. Remaining products: ”. | Product ID: C001 | Pass |
| Attempt to delete a non-existing product | Ensure the system prevents deleting a non-existing product | 1. Access the "Delete Product" menu. 2. Enter a non-existing product ID. | None | “ProductID does not exists.” error message is displayed indicating the product does not exist. | Product ID: NonExistingID | Pass |
| Manager prints the list of products | Ensure the manager can successfully print the list of all products in the system | 1. Access the "Print Products" menu. | System must have pre added products. | List of products is displayed alphabetically based on product ID | None | Pass |
| Manager saves products to a file | Ensure the manager can successfully save the list of products to a file | 1. Access the "Save Products" menu. | System must have pre added products. | Products are saved to the file. | None | Pass |
| Restart application and load saved products | Ensure the system can read back saved information from the file on application restart | 1. Restart the application. 2. Access the "Print Products" menu. | System must have pre added products. | Products from the file are loaded and displayed | None | Pass |
| User selects to view all products on the GUI | Ensure the user can select "All" from the drop-down menu to view all products | 1. Access the GUI. 2. Select "All" from the drop-down menu | None | All products are displayed in the table. | None | Pass |
| User selects to view electronics products on the GUI | Ensure the user can select "All" from the drop-down menu to view electronics products | 1. Access the GUI. 2. Select "Electronics" from the drop-down menu | At least one electronic product is added to the system. | Only electronics products are displayed in the table. | None | Pass |
| User selects to view Clothing products on the GUI | Ensure the user can select "Clothing" from the drop-down menu to view all products | 1. Access the GUI. 2. Select “Clothing” from the drop-down menu | At least one electronic product is added to the system. | Only clothing products are displayed in the table. | None | Pass |
| User views products on the GUI | Ensure the user can successfully view products on the GUI | 1. Access the GUI. | At least one product is added to the system. | Table displays products with reduced availability in red | None | Pass |
| User selects a product and adds it to the shopping cart | Ensure the user can select a product from the GUI table, view details, and add it to the shopping cart | 1. Access the GUI. 2. Select a product from the table. 3. View details and click "Add to Cart" button. | At least one product is added to the system. | Product is added to the shopping cart. | None | Pass |
| User views the contents of the shopping cart | Ensure the user can view the contents of the shopping cart on the GUI | 1. Access the GUI. 2. Click on the "Shopping Cart" button. | At least one product is added to the shopping cart. | Products in the shopping cart are displayed along with the final price. | None | Pass |
| Apply discounts in the shopping cart | Ensure the system applies discounts to the final price in the shopping cart | 1. Access the GUI. 2. Add products to the shopping cart to qualify for discounts | User must select at least 3 product on same product. | Final price in the shopping cart reflects applied discounts. | None | Pass |
| System calculates final price and displays discount message | Ensure the system accurately calculates the final price and displays a message indicating applied discounts | 1. Access the GUI. 2. Add products to the shopping cart. | User must select at least 3 product on same product. | Final price reflects applied discounts, and a message is displayed. | None | Pass |
| System tracks and applies first purchase discount | Ensure the system keeps track of client purchase history and applies a 10% discount for the very first purchase | 1. Access the GUI. 2. Make the first purchase. | Client makes the first purchase | Final price in the shopping cart reflects a 10% discount, and a message is displayed | None | Pass |
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