# **Test Plan for Westminster Shopping Center**

|  |  |  |  |
| --- | --- | --- | --- |
| Test case | Input | Expected Output | Output |
| Adding Electronic Product | Product Type: Electronic.  Product ID: E001.  Product Name: Laptop.  No of available items: 5.  Price: 800.00  Brand: Dell.  Warranty: 12. | The product should be added to the system.  The product should appear in the product list.  The product details should be displayed correctly. | Product added to system.  Product appeared in the product list.  Product details displayed correctly. |
| Adding Clothing Product | Product Type: Clothing  Product ID: C001  Product Name: T-Shirt  No of available items: 10  Price: 20.00  Size: M  Color: Blue | The product should be added to the system.  The product should appear in the product list.  The product details should be displayed correctly. | Product added to system.  Product appeared in the product list.  Product details displayed correctly. |
| Deleting Product | Product ID to delete: E02 | The Electronic product with ID E02 should be removed from the system.  The product should be removed from the product list. | Product with ID E02 should be removed  Product removed from the product list. |
| View Shopping Cart | Add products to the shopping cart. | Shopping cart should display the added products.  Total cost and any applicable discounts should be calculated correctly. | Shopping cart displayed.  Total cost and applicable calculated correctly |
| Saving to File | Save the product inventory to a file. | The file should be created.  The saved file should contain accurate information about the products. | Details saved to file successfully. |
| Loading from File | Load the product inventory from the saved file. | The product list should be populated with the data from the file.  The loaded products should match the previously saved ones. | Previous data added and loaded to the program successfully. |
| Invalid Input Handling | Enter invalid data during product addition. | The system should handle invalid input gracefully and provide appropriate error messages. | System display error message and ask for the inputs again. |
| GUI Interaction | Interact with the GUI components ( clicking buttons). | GUI should respond correctly to user interactions.  Product details should be updated based on user selections. | GUI responded correctly. Product details are updated based on the user selection. |
| Updating Product Table | Add, delete, or modify products. | The product table in the GUI should reflect changes accurately. | Product table reflected the changes accurately. |
| Final Price Calculation | Add products with varying quantities to the shopping cart. | The final price, considering discounts, should be calculated correctly. | Final price calculated correctly and displayed. |
| Exiting Application | Choose to exit the application. | Application should close without errors. | Application exit without any errors. |

Student Name: R.M.T.D.Rathnayake

Student ID: w1959731 / 20211608