**Test Function Document**

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| Project Name:Assignment 1 | |
| Automation Title: | Version: 1 |
| Testing Phase:1 | Date of Test: 27/11-24 |
| Module Name: Online Shopping Cart | |

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| Function Title: Login | | | | Test Designed by: Erik Dahlin | | | |
| Test Priority (Low/Medium/High): High | | | | Test Designed Date: 27/11-24 | | | |
| Description: Tests for the login and logout functionalities in the online shopping cart system | | | | Test Executed by: Erik Dahlin | | | |
| Test Execution date: 27/11-24 | | | |
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| Pre-conditions:<Pre-conditions to start the test> | | | | | | | |
| Dependencies: UserInterface.get\_user\_input, UserDataManager | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | | Actual Results | Status (Pass/Fail) | Notes |
| 1 | Valid login | |  | | --- | |  |  |  | | --- | | username='testuser', password='Test@1234' | | User is successfully logged in, returning user data with wallet value | | Successfully logged in, returning user data | Pass |  |
| 2 | User not found register valid user | username='newuser', password='New@User1' | Prompts for registration, validates password, user is registered with wallet=0.0 | | User is prompted to register, registered with wallet value 0.0 | Pass |  |
| 3 | User not found register invalid user | Username = ‘’ (empty string)  Password = New@invalid | System prompts to enter a valid username | | User is prompted to register, registered with wallet value 0.0 | Fail |  |
| 4 | Invalid passwords | password='weakpass' | Registration fails with prompt for a valid password, criteria: length, upper, special char | | Failed registration and prompted with password criteria | Pass |  |
| 5 | Logout (Empty Cart) | cart.is\_empty()=True | Prompts for logout confirmation, returns True if confirmed, False if canceled | | Prompts for logout confirmation, returns True if confirmed, False if canceled | Pass |  |
| 6 | Logout (Cart with Items) | cart.is\_empty()=False, items=["Cheese", "Onion", "Strawberry"] | Lists items, prompts for logout confirmation, returns True if confirmed, False if canceled | | Lists items, prompts for logout confirmation, returns True if confirmed, False if canceled | Pass |  |
| 7 | Logout (Cart with Items) - Cancel | Cart has items: ["Cheese", "Onion", "Strawberry"]  User input: 'n' (cancel logout) | System outputs:  - "Your cart is not empty."  - "Cheese"  - "Onion"  - "Strawberry"  Logout is canceled. logout() returns False | | System outputs:  - "Your cart is not empty."  - "Cheese"  - "Onion"  - "Strawberry"  Logout is canceled. logout() returns False | Pass |  |
| 8 | Quit During Login | User inputs: 'q' | Program exits with a status code of 0. No further prompts are displayed. | | Program exits with a status code of 0. No further prompts are displayed. | Pass |  |
| 9 | Test login invalid credentials | Username: 'testuser', Password: 'WrongPassword' | Displays: "Login failed.".   Function returns None credentials during login. | | Displays. “Login failed” and asks to register | Fail |  |
| 10 | Duplicate Username During Registration | Username: 'testuser' (already exists), Password: 'Valid@Pass123' | Registration fails.  UserDataManager.save\_users is not called. | | System registers the duplicate user | Fail |  |