**Test Function Document**

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| Project Name: Task 2 | |
| Automation Title: test\_searchAndBuyProduct | Version:1.0 |
| Testing Phase: Phase 1 | Date of Test: 23 Nov 2023 |
| Module Name: Online Shopping Cart | |

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| Function Title: searchAndBuyProduct | | | | Test Designed by: Iftekhar Kabir chowdhury | | | |
| Test Priority (Low/Medium/High): High | | | | Test Designed Date: 22 Nov 2023 | | | |
| Description: searchAndBuyProduct function works after login to search and buy products | | | | Test Executed by: Iftekhar Kabir chowdhury | | | |
| Test Execution date: 23 Nov 2023 | | | |
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| Pre-conditions: login | | | | | | | |
| Dependencies: | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | | Actual Results | Status (Pass/Fail) | Notes |
| 1 | Successful login and search | Login info | Function returns  "Successfully logged in"  "Search for products in inventory" | | Function return s IndexError | Fail | Test name: test\_searchAndBuyProduct\_successful\_login\_and\_search |
| 2 | Login and retry | Login info | Function returns "Either username or password were incorrect"  "Successfully logged in" | | Function returns IndexError | Fail | Test name: test\_searchAndBuyProduct\_login\_and\_retry |
| 3 | Search all products | A csv file of all the products | Function returns  "Search for products in inventory"  "Products" | | Function returns IndexError | Fail | Test name: test\_searchAndBuyProduct\_search\_all\_products |
| 4 | Search specific product | A csv file of all the products | Function returns  "Search for products in inventory"  "Product 1" | | Function returns IndexError | Fail | Test name: test\_searchAndBuyProduct\_search\_specific\_product |
| 5 | Invalid ready to shop input | A csv file of all the products | Function returns "Ready to shop?"  "Invalid input" | | Function returns IndexError | Fail | Test name: test\_searchAndBuyProduct\_invalid\_ready\_to\_shop\_input |
| 6 | Successful shopping and checkout | Checkout and payment info | Function returns  "Search for products in inventory"  "Checkout" | | Function returns IndexError | Fail | Test name: test\_searchAndBuyProduct\_successful\_shopping\_and\_checkout |
| 7 | Empty inventory | A csv file of all the products | Function returns "Search for products in inventory"  "No products available." | | Function returns OSError | Fail | Test name: test\_searchAndBuyProduct\_empty\_inventory |
| 8 | Invalid login max retries | Login info | Function returns  "Either username or password were incorrect"  "Maximum login attempts reached. Exiting." | | Function returns StopIteration | Fail | Test name: test\_searchAndBuyProduct\_invalid\_login\_max\_retries |
| 9 | Search cancel shopping | Checkout and payment | Function returns "Shopping canceled." | | Function returns StopIteration | Fail | Test name: test\_searchAndBuyProduct\_search\_cancel\_shopping |
| 10 | Invalid search input | A csv file of all the products | Function returns "Search for products in inventory"  "Invalid search input. Please try again." | | Function returns StopIteration | Fail | Test name: test\_searchAndBuyProduct\_invalid\_search\_input |