**Test Function Document**

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| Project Name: Assignment 1 Testing | |
| Automation Title: test\_searchAndBuyProduct | Version: 1.0 |
| Testing Phase: Phase 1 | Date of Test: 20 November 2023 |
| Module Name: products.py | |

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| Function Title: searchAndBuyProduct | | | | | Test Designed by: William Brunnsberg | | |
| Test Priority (Low/Medium/High): Medium | | | | | Test Designed Date: 20 November 2023 | | |
| Description: The objective of the searchAndBuyProduct function is to be able to log in a user and view all products or some specific product. When the user is ready to shop the checkoutAndPayment function is called. | | | | | Test Executed by: William Brunnsberg | | |
| Test Execution date: 20 November 2023 | | |
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| Pre-conditions: None | | | | | | | |
| Dependencies: login, checkoutAndPayment | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | Actual Results | | Status (Pass/Fail) | Notes |
| 1 | VEC1 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("all", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called | | Pass | Test name: test\_with\_stubs1  Mimics a normal flow where the user successfully logs in, inputs “all” to see all products and then inputs “Y” to proceed with shopping. |
| 2 | VEC2 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("Apple", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub called once | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub called once | | Pass | Test name: test\_with\_stubs2  Mimics a normal flow where the user successfully logs in, inputs “Apple” to see all filtered products containing “Apple” and then inputs “Y” to proceed with shopping. |
| 3 | VEC3 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("Apple", "N", "all", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub called once | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub called once | | Pass | Test name: test\_with\_stubs3  Mimics a normal flow where the user successfully logs in, inputs “Apple” to see all filtered products containing “Apple”, inputs “N” to once again view products, inputs “all” to see all products and then inputs “Y” to proceed with shopping. |
| 4 | VEC4 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub,  input\_side\_effect function with raised SystemExit | login\_stub called once, checkoutAndPayment\_stub not called, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called, SystemExit raised | login\_stub called once, checkoutAndPayment\_stub not called, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called, SystemExit raised | | Pass | Test name: test\_with\_stubs4  Mimics a special flow where the user successfully logs in, then two times inputs both “all” to see all products and then inputs “N” to view products again, then the test raises a SystemExit to make sure that checkoutAndPayment is not called. |
| 5 | VEC5 | login\_fail\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("all", "Y") | login\_fail\_stub called 2 or more times, checkoutAndPayment\_stub not called, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub not called, “Login failed” Exception raised | login\_fail\_stub called 2 or more times, checkoutAndPayment\_stub not called, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub not called, “Login failed” Exception raised | | Pass | Test name: test\_with\_stubs5  Mimics a special flow where the user does not manage to log in and the test raises a custom “Login failed” Exception to make sure that no other function call is made. |
| 6 | VEC6 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("all", "Y") | login\_fail\_then\_succeed\_stub called 2 times, checkoutAndPayment\_stub called once, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called | login\_fail\_then\_succeed\_stub called 2 times, checkoutAndPayment\_stub called once, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called | | Pass | Test name: test\_with\_stubs6  Mimics a special flow where the user first fails a log in and then successfully logs in, inputs “all” to see all products and then inputs “Y” to proceed with shopping. |
| 7 | VEC7 | login\_fail\_then\_succeed\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("Apple", "N", "Apple", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub not called 2 times | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub not called 2 times | | Pass | Test name: test\_with\_stubs7  Mimics a normal flow where the user successfully logs in, inputs “Apple” to see all filtered products containing “Apple”, inputs “N” to once again view products, inputs “Apple” again to see all filtered products containing “Apple” and then inputs “Y” to proceed with shopping. |
| 8 | VEC8 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("non\_existing\_product", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub called once | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub called once | | Pass | Test name: test\_with\_stubs8  Mimics a normal flow where the user successfully logs in, inputs a non-existing product name and then inputs “Y” to proceed with shopping. |
| 9 | VEC9 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("Apple", "", "all", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub called once | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub called once | | Pass | Test name: test\_with\_stubs9  Mimics a normal flow where the user successfully logs in, inputs “Apple” to see all filtered products containing “Apple”, inputs an empty string, inputs “all” to see all products and then inputs “Y” to proceed with shopping. |
| 10 | VEC10 | login\_stub, checkoutAndPayment\_stub, display\_csv\_as\_table\_stub, display\_filtered\_table\_stub, user\_inputs ("", "Y") | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub not called, display\_filtered\_table\_stub called once | login\_stub called once, checkoutAndPayment\_stub called once with {"username": "Ramanathan", "wallet": 100 }, display\_csv\_as\_table\_stub called once, display\_filtered\_table\_stub not called | | Pass | Test name: test\_with\_stubs10  Mimics a normal flow where the user successfully logs in, inputs an empty string and then inputs “Y” to proceed with shopping. |