**Test Function Document**

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| Project Name: Online Shopping Cart | |
| Automation Title: test\_shop\_search\_and\_purchase.py | Version: 1.0 |
| Testing Phase: Phase 1 | Date of Test: 24 Nov 2024 |
| Module Name: Online Shopping Cart | |

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| Function Title: shop\_search\_and\_purchase | | | | | Test Designed by: Linjing Shen | | |
| Test Priority (Low/Medium/High): High | | | | | Test Designed Date: 23 Nov 2024 | | |
| Description: The function allows users to search for products and purchase them. It handles user input and displays the results. | | | | | Test Executed by: Linjing Shen | | |
| Test Execution date: 24 Nov 2024 | | |
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| Pre-conditions:None | | | | | | | |
| Dependencies: None | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | Actual Results | | Status (Pass/Fail) | Notes |
| 1 | IEC1 | 1, 'y' | AttributeError | AttributeError | | Pass | test\_search\_product\_using\_int():'int' object has no attribute 'lower' |
| 2 | IEC2 | 1.5, 'y' | AttributeError | AttributeError | | Pass | test\_search\_product\_using\_float() |
| 3 | IEC3 | [1,2,3], 'y' | AttributeError | AttributeError | | Pass | test\_search\_product\_using\_list() |
| 4 | IEC4 | 'apple', 1 | AttributeError | AttributeError | | Pass | test\_checkout\_using\_int() |
| 5 | IEC5 | 'apple', 1.5 | AttributeError | AttributeError | | Pass | test\_checkout\_using\_float() |
| 6 | IEC6 | 'apple', [1] | AttributeError | AttributeError | | Pass | test\_checkout\_using\_list() |
| 4 | VEC1 | 'HOUSE', 'y' | display\_filtered is called once | display\_filtered is called once | | Pass | test\_search\_product\_using\_wrong\_string() |
| 5 | VEC2 | 'Apple', 'y' | display\_filtered is called once | display\_filtered is called once | | Pass | test\_display\_filtered\_products\_1() |
| 6 | VEC3 | 'apPle', 'Y' | display\_filtered is called once | display\_filtered is called once | | Pass | test\_display\_filtered\_products\_2() |
| 7 | VEC4 | "Apple", "n", "Banana", "y" | display\_filtered is called twice | display\_filtered is called twice | | Pass | test\_display\_filtered\_products\_3() |
| 8 | VEC5 | "all", "y" | display\_csv is called once | display\_csv is called once | | Pass | test\_display\_all\_products\_1() |
| 9 | VEC6 | 'AlL', 'Y' | display\_csv is called once | display\_csv is called once | | Pass | test\_display\_all\_products\_2() |
| 10 | VEC7 | 'all', 'n', 'all', 'y' | display\_csv is called twice | display\_csv is called twice | | Pass | test\_display\_all\_products\_3() |
| 11 | VEC8 | 'all', 'n', 'Apple', 'y' | display\_csv is called once, display\_filtered is called once | display\_csv is called once, display\_filtered is called once | | Pass | test\_display\_all\_products\_and\_filtered\_products\_1() |
| 12 | VEC9 | 'all', 'n', 'Apple', 'n', 'Banana', 'y' | display\_csv is called once, display\_filtered is called twice | display\_csv is called once, display\_filtered is called twice | | Pass | test\_display\_all\_products\_and\_filtered\_products\_2() |
| 13 | VEC10 | 'LAPTOP', 'n', 'all', 'y' | display\_csv is called once, display\_filtered is called once | display\_csv is called once, display\_filtered is called once | | Pass | test\_display\_all\_products\_and\_filtered\_products\_3() |
| 14 | VEC11 | 'Apple', 'n', 'Grapes', 'n', 'all', 'y' | display\_csv is called once, display\_filtered is called twice | display\_csv is called once, display\_filtered is called twice | | Pass | test\_display\_all\_products\_and\_filtered\_products\_4() |
| 15 | VEC12 | 'all', 'n', 'Apple', 'n', 'Banana', 'n', 'all', 'y' | display\_csv is called twice, display\_filtered is called twice | display\_csv is called twice, display\_filtered is called twice | | Pass | test\_display\_all\_products\_and\_filtered\_products\_5() |