**Test Function Document**

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| Project Name: Assignment1 | |
| Automation Title: test\_products | Version: 1.0 |
| Testing Phase: Phase 1 | Date of Test: 24 Nov 2023 |
| Module Name: Products | |

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| Function Title: display\_csv\_as\_table | | | | Test Designed by: Pavithra Thathsarani | | | |
| Test Priority (Low/Medium/High): High | | | | Test Designed Date: 23 Nov 2023 | | | |
| Description: This function reads the csv file and display the data as a table. | | | | Test Executed by: Pavithra Thathsarani | | | |
| Test Execution date: 23 Nov 2023 | | | |
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| Pre-conditions: None | | | | | | | |
| Dependencies: | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | | Actual Results | Status (Pass/Fail) | Notes |
| 1 | Read valid CSV file and display data as table | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n" | "['Product', 'Price', 'Units']\n['Product1', '10', '2']\n['Product2', '20', '1']\n['Product3', " "'30', '5']\n" | | "['Product', 'Price', 'Units']\n['Product1', '10', '2']\n['Product2', '20', '1']\n['Product3', " "'30', '5']\n" | Pass |  |
| 2 | Check the method provide a correct row count in the table | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n" | 4 | | 4 | Pass |  |
| 3 | Check the method provide a correct column count in the table | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n" | 3 | | 3 | Pass |  |
| 4 | Check whether the function return UnicodeDecodeError with pdf file format | File name: example.pdf | Throws UnicodeDecodeError | | Throws UnicodeDecodeError | Pass |  |
| 5 | Check whether the function return UnicodeDecodeError with jpg file format | File name: example.jpg | Throws UnicodeDecodeError | | Throws UnicodeDecodeError | Pass |  |
| 6 | Check whether the function return UnicodeDecodeError with excel file format | File name: example.excel | Throws UnicodeDecodeError | | Throws UnicodeDecodeError | Pass |  |
| 7 | Check whether the function returns FileNotFoundError with non existence file | File name: nonexistent\_file.csv | Throws FileNotFoundError | | Throws FileNotFoundError | Pass |  |
| 8 | Check whether the function returns FileNotFoundError with empty file | Pass empty string as input | Throws FileNotFoundError | | Throws FileNotFoundError | Pass |  |
| 9 | Check whether the function returns TypeError with none input | Pass None as input | Throws TypeError | | Throws TypeError | Pass |  |
| 10 | Check whether the function returns TypeError with list input | List input: [1, 2, 3] | Throws TypeError | | Throws TypeError | Pass |  |
| 11 | Check whether the function returns TypeError with dictionary input | Pass dictionary input : {'filename': 'test.csv'} | Throws TypeError | | Throws TypeError | Pass |  |

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| Function Title: display\_filtered\_table | | | | Test Designed by: Pavithra Thathsarani | | | |
| Test Priority (Low/Medium/High): High | | | | Test Designed Date: 23 Nov 2023 | | | |
| Description: This function gets the csv file and product name as an input and searches the products in csv file. If there’s a data in csv file, that matches with input product name, function prints the details of that product. | | | | Test Executed by: Pavithra Thathsarani | | | |
| Test Execution date: 23 Nov 2023 | | | |
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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 | Check whether search performs correctly for valid product name | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n",  search: Product1 | "['Product', 'Price', 'Units']\n['Product1', '10', '2']\n" | | "['Product', 'Price', 'Units']\n['Product1', '10', '2']\n" | Pass |  |
| 2 | Check the method provide a correct row count in the table | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n", search: Product1 | 2 | | 2 | Pass |  |
| 3 | Check the method provide correct row count and print the correct table when search is in lower case. | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n", search: product1 | 2 | | 2 | Pass |  |
| 4 | Check the method provide correct row count and print the correct table when search is invalid | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n", search: XYZ | 1 | | 1 | Pass |  |
| 5 | Check the method provide correct row count and print the correct table when search is empty | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n", search: | 1 | | 1 | Pass |  |
| 6 | Check whether the function returns TypeError with None input | "Product,Price,Units\nProduct1,10,2\nProduct2,20,1\nProduct3,30,5\n", search: None | Throws TypeError | | Throws TypeError | Pass |  |
| 7 | Check whether the function returns TypeError with empty input | CSV\_file\_name:  search: | Throws TypeError | | Throws TypeError | Pass |  |
| 8 | Check whether the function returns TypeError with list input for search | [1, 2, 3] | Throws TypeError | | Throws TypeError | Pass |  |
| 9 | Check whether the function returns TypeError with dictionary input for search | {'filename': 'test.csv'} | Throws TypeError | | Throws TypeError | Pass |  |
| 10 | Check whether the function returns TypeError with int input for search | 10 | Throws TypeError | | Throws TypeError | Pass |  |
| 11 | Check whether the function returns TypeError with boolean input for search | True | Throws TypeError | | Throws TypeError | Pass |  |

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| Function Title: searchAndBuyProduct | | | | Test Designed by: Pavithra Thathsarani | | | |
| Test Priority (Low/Medium/High): High | | | | Test Designed Date: 23 Nov 2023 | | | |
| Description: This method prompts user to pick products to the cart and buy them. The method internally uses two separate methods to display products, and one other method to do the checkout and payment. | | | | Test Executed by: Pavithra Thathsarani | | | |
| Test Execution date: 23 Nov 2023 | | | |
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| Pre-conditions: None | | | | | | | |
| Dependencies: display\_csv\_as\_table, display\_filtered\_table, checkoutAndPayment | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | | Actual Results | Status (Pass/Fail) | Notes |
| 1 | Check whether the method gives all the list of products and continue for purchasingwhen the input gives as “all” | valid\_login\_input = ["Ramanathan", "Notaproblem23\*"],  ['all', 'Y'],  valid\_checkout\_and\_payment\_inputs = ["1", "c", "y", "l"] | Check that “display\_csv\_as\_table” method call once | | Check that “display\_csv\_as\_table” method call once | Pass |  |
| 2 | Check whether the method gives filtered list of products for particular search and continue for purchasing when giving another input other than “all” | valid\_login\_input = ["Ramanathan", "Notaproblem23\*"],  ['Product1', 'Y'],  valid\_checkout\_and\_payment\_inputs = ["1", "c", "y", "l"] | Check that “display\_filtered\_table” method call once | | Check that “display\_filtered\_table” method call once | Pass |  |