**Test Function Document**

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| Project Name: Assignment 1 Testing | |
| Automation Title: test\_load\_products\_from\_csv | Version: 1.0 |
| Testing Phase: Phase 1 | Date of Test: 16 November 2023 |
| Module Name: checkout\_and\_payment.py | |

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| Function Title: load\_products\_from\_csv | | | | Test Designed by: Edvin Eriksson | | | |
| Test Priority (Low/Medium/High): Low | | | | Test Designed Date: 16 November 2023 | | | |
| Description: The objective of the load\_products\_from\_csv function is to append products to a list, given products in a csv file with products containing name, price and units. The first row is identified as the header. | | | | Test Executed by: Edvin Eriksson | | | |
| Test Execution date: 16 November 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 | IEC1 | 1 | Function raises TypeError | | Function expected [] | Fail | Test name: test\_int\_input()  Int input |
| 2 | IEC2 | 0.5 | Function raises TypeError | | Function raises TypeError | Pass | Test name: test\_float\_input()  Float input. |
| 3 | IEC3 | [“copy\_products.csv”] | Function raises TypeError | | Function raises TypeError | Pass | Test name: test\_list\_input()  List input. Uses a fixture to create a temporary copy of products.csv. |
| 4 | VEC1 | “non\_existing.csv” | Function raises FileNotFoundError | | Function raises FileNotFoundError | Pass | Test name: test\_EC1()  Testing a csv file that does not exist as an input. |
| 5 | VEC2 | “empty\_products.csv” | The length of the product list is 0, so simply being an empty list | | The length of the product list is 0, so simply being an empty list | Pass | Test name: test\_EC2()  Testing an empty csv file as input. Uses a fixture to create an empty csv file. |
| 6 | VEC3 | “” | Function raises FileNotFoundError | | Function raises FileNotFoundError | Pass | Test name: test\_EC3  Testing an empty string as input |
| 7 | VEC4 | “copy\_products.csv” | The first product in the list is an apple, worth 2.0 and have 10 units. The second product in the list is a banana, worth 1.0 and have 15 units.  The total length of the product list should be 71. | | The first product in the list is an apple, worth 2.0 and have 10 units. The second product in the list is a banana, worth 1.0 and have 15 units.  The total length of the product list should be 71. | Pass | Test name: test\_EC4()  Uses a fixture to create a temporary copy of products.csv.  Tests a csv file containing 3 columns (Product, Price and Units) |
| 8 | VEC5 | “modify\_products.csv”  Appended two rows to the csv file with one product named ‘Bread’, priced -3.0 and have 20 units. The other row is a product named ‘Ham’, priced 0, with 10 units. | The product in the list at index 71 is priced at -3.0  The product in the list at index 72 is priced at 0. | | The product in the list at index 71 is priced at -3.0  The product in the list at index 72 is priced at 0. | Pass | Test name: test\_EC5()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing 3 columns (Product, Price and Units) but some products have negative or no price. |
| 9 | VEC6 | “modify\_products.csv”  Appended two rows to the csv file with one product named ‘Fries’, priced 3.0 and have  -10 units. The other row is a product named ‘Popcorn’, priced 4.0, with 0 units. | The product in the list at index 73 have -10 units.  The product in the list at index 74 have 0 units. | | The product in the list at index 73 have -10 units.  The product in the list at index 74 have 0 units. | Pass | Test name: test\_EC6()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing 3 columns (Product, Price and Units) but some products have negative or no units. |
| 10 | VEC7 | “modify\_products.csv”  Appended two rows to the csv file with one product named 1, priced 3.0 and have 10 units. The other row is a product named ‘0.5’, priced 4.0, with 3 units. | The product in the list at index 75 is named ‘1’.  The product in the list at index 76 is named ‘0.5’. | | The product in the list at index 75 is named ‘1’.  The product in the list at index 76 is named ‘0.5’. | Pass | Test name: test\_EC7()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing 3 columns (Product, Price and Units) but some products have integer or floats as name |
| 11 | VEC8 | “modify\_products.csv”  Appended two rows to the csv file with one product named ‘Cheese’, priced 3.0 and have 10 units. The other row is a product named ‘Popcorn’, priced 4.0, with 5 units. | The product in the list at index 77 is named ‘Cheese’.  The product in the list at index 78 is named ‘Popcorn’. | | The product in the list at index 77 is named ‘Cheese’.  The product in the list at index 78 is named ‘Popcorn’. | Pass | Test name: test\_EC8()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing an empty row between products |
| 12 | VEC9 | “modify\_products.csv”  Overwrote with one row with only two columns (Product, Price). Added one product named ‘Cheese’, priced 3.0. | Function raises KeyError | | Function raises KeyError | Pass | Test name: test\_EC9()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing only 2 columns. |
| 13 | VEC10 | “modify\_products.csv”  Overwrote with two rows with four columns (Product, Price, Units and Category). Added one product named ‘Cheese’, priced 3.0, units 4 and category ‘Dairy’. | Not any ‘Dairy’ in the product list. | | Not any ‘Dairy’ in the product list. | Pass | Test name: test\_EC10()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test.  Tests a csv file containing 4 columns. |
| 14 | VEC11 | “modify\_products.csv”  Overwrote with one row with three columns (Product, Price and Units). Added one product named ‘Bread ’, priced 3.0 and with 6.0 units. | The first product in the list is a bread, worth 3.0 and have 6 units. | | The first product in the list is a bread, worth 3.0 and have 6 units. | Pass | Test name: test\_EC11()  Uses a fixture to create a temporary copy of products.csv that is modified for the corresponding test. |