**Test Function Document**

| Project Name: Assignment 1 - Task 3 | |
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| Automation Title: test\_load\_products\_from\_csv | Version: 1.0 |
| Testing Phase: Phase 1 | Date of Test: 23 nov 2023 |
| Module Name: A1\_unit\_testing\_students | |

| Function Title: load\_products\_from\_csv | | | | Test Designed by: Vilma van der Schoot | | | |
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| Test Priority: Medium | | | | Test Designed Date: 23 Nov 2023 | | | |
| Description: The load\_products\_from\_csv function reads data from a CSV file specified by the file\_path parameter and returns a list of Product objects. | | | | Test Executed by: Vilma van der Schoot | | | |
| Test Execution date: 23 nov 2023 | | | |
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| Pre-conditions:  The file\_path exists.  The CSV file should have headers with the names 'Product', 'Price', and 'Units'.  There should be no missing values in these three columns.  The values in the 'Price' column are expected to be convertible to float.  The values in the 'Units' column are expected to be convertible to int. | | | | | | | |
| Dependencies: Product, csv | | | | | | | |
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| S. No | Equivalence Class | Test case data | Expected Results | | Actual Results | Status (Pass/Fail) | Notes |
| 1 | IEC1 | 1 | Function raises a TypeError exception | | No exception raised | Fail | Integer input.  Test name: test\_int\_input() |
| 2 | IEC2 | 0.5 | Function raises a TypeError exception | | Function raised a TypeError exception | Pass | Float input.  Test name: test\_float\_input() |
| 3 | IEC3 | [1] | Function raises a TypeError exception | | Function raised a TypeError exception | Pass | List input.  Test name: test\_list\_input() |
| 4 | IEC4 | A non existing file path | Function raises a FileNotFoundError exception | | Function raised a FileNotFoundError exception | Pass | Test name: test\_incorrect\_file\_path() |
| 5 | IEC5 | A file with invalid values | Function raises a ValueError exception | | Function raise a ValueError exception | Pass | Test name: test\_invalid\_values\_in\_file() |
| 6 | IEC6 | A file with a row containing an empty string in the “Product” column | Function does not return the product with the empty string. | | Function did return the product with the empty string. | Fail | Test name: test\_empty\_string\_value |
| 7 | IEC7 | A file missing the “Price” column | Function does not return any products at all in the list. | | Function did not return any products at all in the list. | Pass | Test name: test\_missing\_columns() |
| 8 | VEC1 | A file path to a valid file with both int and float in “Price” column | Function returns a list with all products, and values of wrong type are converted to the right types | | Function returned a list with all products, and values of wrong type are converted to the right types | Pass | Test name: test\_valid\_file\_path() |
| 9 | VEC2 | A file containing no values | Function returns an empty list | | Function returned an empty list | Pass | Test name: test\_empty\_file() |
| 10 | VEC3 | A file containing an extra column | Function ignores extra column and returns all products | | Function ignored extra column and returns all products | Pass | Test name: test\_extra\_columns() |