Unit testing of the load\_products\_from\_csv function

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.

The load\_products\_from\_csv function takes as input a string as the name of the csv file. Thus out of {int,float,string,list}, int, float and list are invalid types. We create one test for each of these and assert that the load\_products\_from\_csv function returns a ‘TypeError’ message.

The function does not have documentation that outlines the valid inputs. Therefore, the input domain was studied, resulting in the following equivalence classes (EC):

1. A non-existing csv file name
2. An empty csv file
3. An empty string as csv file name
4. A csv file containing 3 columns (Product, Price and Units) as the products.csv
5. A csv file containing 3 columns (Product, Price and Units) but some products have negative or no price
6. A csv file containing 3 columns (Product, Price and Units) but some products have negative or no units
7. A csv file containing 3 columns (Product, Price and Units) but some products have integer or floats as name
8. A csv file containing an empty row between products
9. A csv file containing only 2 columns
10. A csv file containing 4 columns
11. A csv file containing 3 columns (Product, Price and Units) but some products have whitespaces in the values

A test case for each equivalence class will be made. In depth information about the test cases are presented in the “load\_products\_from\_csv function testing document”.

In order to execute all of the test requirements, the fixtures copy\_csv\_file, empty\_csv\_file and modify\_csv\_file were used.