Development Testing

We are going to use the test class that is already created for our project by springboot. We will make tests for every class, taking into consideration the most common, as well as the more unusual or marginal cases.

The main class of this project (and the most complex one) is going to be Stonk\_Market. It has functions that are going to control the market and return information about it. If all the test pass here we can say that also all the other classes are working great.

The functions that we will test are:

- updateMarket(): Should update all the stonks increasing or decreasing their value (In the test function we should verify if the values of the stonks are not negative, that the number of stonks in the list have not changed).

- getStonkWithName(string): Should return the stonk with the name given as input and should throw an exception if there is no stonk with that specific name. -table 1-

- createStonksFromCSV(file): Should populate the allStonks list with the information given in the CSV file (the test function should verify if all the stonks have been added and if their value is the one written in the CSV file). -table 2-

In order to make the explanation easier we will consider the list of stonks (allStonks) =

[Apple, Google, Microsoft, Sony] for this table:

|  |  |  |
| --- | --- | --- |
| Function | Input | Output |
| getStonkWithName(string) | "Apple" | Apple |
|  | "Sony" | Sony |
|  | "GGoogle" | throw exception |
|  | "Microsoftaaaaaaa" | throw exception |
|  | "Appple" | throw exception |

|  |  |  |
| --- | --- | --- |
| Function | Input (a CSV file -for simplicity we are going to write it here as list-) | Output (allStonks == L ) |
| createStonksFromCSV(file) | [("Apple",4)] | for L = [("Apple",4)] => true |
|  | [("Apple",4)] | for L = [("Apple",12)] => false |
|  | [("Apple",1),("Google",2)] | for L = [("Apple",1), ("Google",2)] => true |
|  | [("Apple",1),("Google",2)] | for L = [("Apple",1)] => false |
|  | [("Apple",1),("Google",2)] | for L = [("Google",2)] => false |