# QA Engineer Challenge

### 1. Automation

For this small project I’ve used the following tools:

1. Python (due to more experienced in)
2. UnitTest for python (1st time work with it)
3. Selenium
4. Firefox

I have created 5 files for this project:

* Login.py
* Login\_and\_go\_tool.py
* Handle\_tool.py
* Locators
* Variables

## Login.py

This class extends *unittest.TestCase* that allows to run Test Cases and have a report about it. Also allows to have methods like Setup (for environment preparation) and teardown (foe environment close)

Each function(def) here should start with test\_ and by this way *unittest* will handle it as a test.

It was used firefox webdriver

*cls.driver = webdriver.Firefox()*

Only one test was used, named *test\_login*

This test login uses 2 classes that were created to handle the login process and other class to handle the tool operations

## Login\_and\_go\_tool.py

This class will handle:

1. go to sign in page
2. set\_username
3. set\_password
4. click login
5. open tool

Selenium was used here basically with find *\_element\_by\_xpath* due to my own experience   
Basically, the required elements are found and texts are set via send keys   
Buttons are handle with click ()

Is was used a constructor to receive the xpath locators that were stored at locators.py to reduce the code readable complexity

The driver is passed as part of the constructor   
All locators at locators.py are static

## Handle\_tool.py

This class will handle:

* select\_en\_text
* set\_error\_type
* click\_error\_tree
* set\_error\_sev
* click\_add\_button
* select\_any\_side\_bar
* insert\_comments
* finish\_exercice
* finish\_job