# Solution

In a general way, the structure of the HTML code was analyzed in depth, from this it was possible to find the following pattern: each faculty was contained in a div element with id *accordion* and the data of interest was housed in a div with *panel-body* class.

The *find\_elements\_by\_xpath* locator was used to store the data of all the faculties in a list and then to be able to iterate it. The method is defined in espol\_page.py and returns a list that is then used in the bonus exercise.

In the project can also find other files like: *test.py, bonus\_page.py, locators.py and file.py.*

* The *test* file was used as a base to execute the tests, in this file modules like *unnittest, time* and the rest of the classes created were imported.
* *File.py* was created to place the methods that would facilitate storing the data in the corresponding files.
* The *locators* file contains attributes that are used in the "page" type files.

# Bonus

The list obtained in the previous exercise was used to extract the complementary subjects, this with the objective to use the stored links to be able to open each corresponding page and to navigate on this one.

In this exercise it was necessary to use clicks to open the modal that contained the table with the subjects and also to select the maximum amount of records to show. It was necessary to use the *time.sleep* function to allow the information to load completely and avoid exceptions. The method is defined in *bonus\_page.py* and the data is stored in a JSON format file.