**Type of test:** Functional Test

**Pre-implementation**: Execution of test case manually

**Advantages of automated testing:**

-Reliability: Human error is eliminated

-Speed: As it is an automated test, it will be executed much faster than if it were executed by a tester.

**Greater test coverage:**

* It allows to dedicate resources to test the application in depth.
* Test automation is one of the edges that make up the agile methodology, with the satisfactory result allows the integration of code.
* They allow more time to be devoted to test critical areas of the application and/or do more complex tests (edge cases, usability, etc) where it is required to combine actions or verify from a logical point of view.

**Disadvantages:**

* It is a costly process that requires technical skills.
* Usually, some functionalities will require user interaction

For automation I have used the cypress framework which uses the Java script programming language. It is the most used automation framework currently on the market because it is very easy to implement and configure compared to other frameworks e.g. selenium, among other improvements it provides integrated element inspector, provides execution report, screenshots and videos. I have used the page object design pattern to avoid code duplication and very helpful when it comes to maintenance. The test case scenario is defined with Gherkins, a common language that allows compression of the case execution by people with little or no programming knowledge.

Personally, it has been a small achievement to be able to set up a framework for the development of automated testing of web sites from scratch, besides the use of javascripts which is not the language I normally use.