***QA Function***

* Requirements gathering
* Understanding use case scenarios
* Write in test scenarios
* Execution and/or automation of scenarios
* evidence collection
* creation of quality report

Within the functions of a QA, there are two ways to carry out the tests, which guarantee that the software will work perfectly, they are, manual tests and automated tests.

***Manual Tests***

Manual tests are tests performed by professionals whose main purpose is to ensure that the software has its performance completely approved. within the manual test there are different modalities to carry them ou, among the main ones we have:

* Regression test: aims to validate functionalities already created;
* Exploratory Tests: the main purpose is to test the entire

platform, without a defined mapping;

* Functional testing: Testing a specific functionality;
* End to End Testing: test the software from end to end;
* Smoke Testing: Identification of key issues in the initial testing phase saves time.

***Automated Tests***

Automated tests are based on the use of code, so that the computer performs the tests that are more costly and time consuming. Among the main tests that can be automated, we have:

* Unit Tests: Validate a small logical unit;
* Integration tests: Validates the

connection between two systems;

* End to End Test: Main purpose is to validate the end-to-end system;
* Performance test: Test the performance of the software and certifies that all functionalities are correct;
* Health Test: Validates if the system in production is “ok”;

***Use of Automated Test***

***The main benefits of automation***

* Standardization;
* Decentralization of knowledge;
* Execution speed.

**When use the automatization**

When automating, you need to review 3 points

* Time to create automation;
* Demand;
* Expiration date;
* how many times will i use automation ;
* how long will this automation work.