**TestLink**

**Description**  
TestLink is a free tool that allows you to create and manage test cases and organize them into test plans. These plans allow team members to execute test cases and record results dynamically, generate reports, maintain traceability with requirements, as well as prioritize and assign tasks.

**Characteristics**

In the case of Early Testing, this tool includes among its functionalities the possibility of maintaining a repository of requirements that help verify its traceability:

* It allows managing several projects, as well as registering their requirements and relating them to test cases.
* Allows importing requirements and test plans from spreadsheets.
* It allows generating reports in different formats.
* It allows defining requirements and test cases using a friendly interface, as well as attaching files.
* It allows grouping the requirements in a tree structure.

**This tool offers us**

* Support for different products.
* Creation of different roles with different permissions for the members of the testing team.
* Unlimited creation of folders in the form of a tree (called testsuites) for a better organization and grouping of test cases.
* Version of test cases.
* Execution of test cases by software version under test.
* Creation of testplans for execution.
* Assignment of cases (for execution) to users. So in the same test plan we can have several testers working and they only see their assigned test cases  
  Support to link cases with requirements / specifications.
* Generation of different types of reports: general of the product, by testplan, graphics, specific queries, etc ...
* Possibility of sending the reports by mail to the tester.

**Advantage**

* The test cases can be organized by a module hierarchical structure - use case, and can be used in different iterations, projects, executions.
* The design of the test case is adapted to the format defined in the SGI, which allows configuring an expected result in each of the steps.
* It allows to design generic test cases to be reused in different projects.
* It allows to have a version management of the test cases designed.

**Advantages of the Manual Process**

* Assignment of the test cases to a specific tester, which allows to keep track of the progress in the assigned activities.
* You can configure test plans and organize them according to the modules or functionalities that you wish to test.
* In the execution of the test cases it is possible to register the corresponding result and if incidents occur it is possible to indicate the number of the incidence reported in the Mantis tool.

**Disadvantages**

* Problems to forward pdf reports from TestLink in Chrome.
* TestLink integration with a new Issue Tracker.

**System requirements**

* Have a web server such as Apache 1.3 and 2 or higher, Php5 and a database SQL service. For example, XAMPP.
* Have downloaded the SourceForge package.
* Unzip the TestLink package in the directory that we want inside our server.
* TestLink has an automatic installation script, which will help you install all the configuration directives, as well as the structure of the data base. From our browser access to: <http://nuestroServidor/testlink/install/index.php>

**Tool selection justification**

We chose this tool since it is Open Source and it allows us to access through the internet, besides it is a very useful tool for the control of testing of our project, which offers us a documentation of the tests carried out and this allows us to have a better control in terms of the tests performed, since it has a revision version management and shows you a statistic regarding the progress in this version of testing. It also gives us messages when it fails in some testing and shows us that the error occurred.