

Chapter - 07 Conclusion

This chapter concludes the project undertaken. After the successful completion and evaluation of the project it is a pleasure to review the accomplished achievements, presented in the form of objectives.

7.1 Objective

The main objective of the project work was to develop an open source test automation framework. This is to reduce the manual effort on testing. The obtained features are listed below.

Automate Regression and Load tests

Test once at a time or few at once model project/product testing

Flexibility of executing selected test cases

See the Test Map before it executed

Detailed Test Analysis Report

Global availability of all the above functionalities

7.2 How the Project was conducted

eBuilder group had a high prioritized requirement of a Test Automation Framework. So there was no argument about starting this project in a hurry.

After approval is given to the project proposal, and after having a discussion with Dr. Mdurupperuma, the first thing done was to study the existing system running in the company. The challenge was to implement a system which is tally with their current technologies. Most of the senior developers given the fullest support with their thoughts and suggestions.

Tested with Sweden office to verify the global availability. Finally it was a success.

7.3 Achievements

A complete and fully functioning test automation framework is developed and is in a ready to use condition at the end of the project.

The biggest achievement was the design a system which is compatible with current technologies which are used by the organization.

Global availability is another achievement for a multi national company. And finally this will reduce the time of regression and integration testing life cycle.

7.4 Benefits of the Framework

- Moderate technical competency required for the use – The framework in itself is very easy to use and does not require special automation skills unless there is a need for modifications or enhancements.
- Reusability– The framework with its existing set of scripts and keywords can be used for automating any set of applications
- Low maintenance cost
- Reports helps the QA analysts to quickly know the behavior of the application after an execution which is easy to read and understand from the application perspective

7.5 Problems Encountered

Learning new languages

Developing the maven plugin was the most difficult part of the project. For the scripting language “jelly scripts”, there was a big learning curve.

Time constraint

Testing the project with different scenarios was the most time consuming thing. So with the given time frame it was pretty difficult to cover all the test scenarios.

7.6 Deficiencies of the project

When it comes to hundreds of test cases in one project or product there is some performance degrade in populating user defined variables.

7.7 Future work

Now this system will completed successfully for the testing processes (Regression, Load, Integration) and at the end of the day system will generate fully detailed report with pass or falls test cases. So if there is a facility to send final report to the relevant people automatically it will save time of the developer as well as tester. Also it will save time of the error correction.

Need to improve current performance issues.

7.8 Summery

This chapter is the conclusion chapter. How the project was conducted, achievements, problems encountered while preceding the project, deficiencies of the project and future work is stated in this chapter.



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