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Abstract

The complexity and scale of the current software products are rapidly increasing. The resources and manpower, which are dedicated for testing software, are being reduced or remain constant. Automated testing has become crucial in the software industry to address this gap and therefore, has been widely adopted more than ever before. This project will discuss an innovative design for developing automated test frameworks by overcoming traditional challenges in the particular field. It will present strategies for automating all types of tests such as Integration Testing, Load testing and Regression Testing. Software test automation has the capability to decrease the overall cost of testing and improve software quality, but most testing organizations have not been able to achieve the full potential of test automation. Many groups that implement test automation programs run into a number of common pitfalls. These problems can lead to test automation plans being completely scrapped, with the tools purchased for test automation becoming expensive “shelfware”.

The project mainly focused on providing effective solution for automating and integrating all the “Testing” needs in the eBuilder Technology Centre (Pvt.) Ltd. The proposed solution covers automation of the all manual test efforts, integrates all the product and project testing. In addition to that, system is globally available and centralized. It has lots of effective testing options and nice analysis reports.

Test Automation Framework that can seamlessly automate the Integration Testing, Load testing and Regression Testing phases of the development lifecycle of the product has been developed. This increases the developer/tester productivity by providing a robust and easy to use framework.

Acknowledgement

I wish to place on record my sincere thanks to my project supervisor Dr. Ajith Madurupperuma for his insightful guidance, and the dedicated staff at the University of Moratuwa, Faculty of Information Technology for all the support extended towards the successful completion of this project.

I also thank all the staff of the eBuilder Technology Centre including general manager Mr. Chaminda Attanayake and whole QA team who have given me the opportunity to design and implement such a vital solution and providing all the necessary hardware and software requirements to make this project a reality.



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List of Acronyms

IP – Internet Protocol

HTTP – Hypertext Transfer Protocol

QA – Quality Assurance

GUI – Graphical User Interface

HTML – Hypertext Markup Language



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