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Mahindra Comviva

Web Test Automation

By using a web test automation tool, the company has saved 92% effort in both time and schedules for over 2500+ test cases on a daily basis

- Adeesh Sharma

Mahindra Comviva develops solutions for the telecom operators. The company has been adopting automation at various phases of product development and delivery for faster time to market. Testing is one of the critical phases of reviewing product quality. The efforts put in identifying defects is intensive. The company's concern was to reduce effort, cost and time to market without any compromise on testing. This challenge could only be addressed by using automation tools.

Challenges faced while implementing the solution

A key challenge was to meet the existing delivery schedule of products to market with fewer team members as rest were focused on the automation project. Another challenge was to estimate the time that automation suites will take to execute for incremental test suites. For adhering to quality assurance, they needed to move beyond risk based testing for frequent releases of the product. There was also this need to crash the schedule of testing cycles through automated parallel execution of tests and re-direction of efforts of testers for focusing on end to end testing of the product. They

"Automated execution of 2500+ test cases on daily basis is leading to savings in both effort and time to market their products. Returns of 92% savings both on effort and schedules continue since its deployment."

needed to segregate pre-requisites of tests as setup automation suites so that they can be re-used across multiple modules. Also, it was important to ensure that the test suites could be re-used and extended to support additional test cases. Additionally, they needed to centralise the execution reports of automation suites for effective governance.

Solution deployed

Before going about choosing the right tool for deployment, they identified the key challenges that needed to be solved by the selected tool. They were:

- Web Test automation tool must be browser agnostic. Both recorder and player should work on multiple browsers.
- Speed of execution of tests
- Ease of creation and maintenance of automation suites
- Ease of use and learning curve for introducing manual testing teams to automation
- Increasing cost, effort and schedule due to manual testing.
- Scalability of tools to execute multiple tests and carry out performance tests
- Support for adding features into the tool on need basis.

They finally chose Sahi Pro, a web automation tool. Around 2,787 test cases for a major product of the company were automated using this tool. Other software and technologies used to support this included: Red Hat Linux Enterprise Edition (RHEL), Jenkins, MySQL, Java, Apache Tomcat, and Oracle for mobility app.

Key benefits

By implementing this solution, they achieved savings in testing efforts of 92% for HTML and 92.5% for Flex

Project Head

Mahesh V Ghatage

Senior Group Manager, Mahindra Comviva

Company Scenario

Challenges

- The company has been adopting automation at various phases of product development and delivery for faster time to market. Testing is one of the critical phases of reviewing product quality.
- The efforts put in identifying defects is intensive. The company's concern was to reduce effort, cost and time to market.

Implementation

- They chose Sahi Pro, a web automation tool. Around 2,787 test cases for a major product of the company were automated using this tool.
- Other software and technologies used to support this included: Red Hat Linux Enterprise Edition (RHEL), Jenkins, MySQL, Java, Apache Tomcat, and Oracle for mobility app.

Benefits

- By implementing this solution, they achieved savings in testing efforts of 92% for HTML and 92.5% for Flex applications.
- The waiting time to get complete report of execution is much lesser. 2300 Scenarios get executed in 21 hours, providing a saving of 94% on execution time and manual efforts.

Implementation partner

Tyto Software Pvt. Ltd.

applications. The waiting time to get complete report of execution is much lesser compared to the other tools. 2300 Scenarios get executed in 21 hours, providing a saving of 94% on execution time and manual efforts. Also, as Sahi Pro is being used in web test automation of all the company's major products, the solution is being used by the whole team involved in creating these products including Developers, Testers, and others.