Case Study | Regression Testing

The Client: Leader in delivering high quality, reliable and cost-effective IT Solutions across the globe

Application Overview and Technology

» It is a web based application that facilitates online prescription, accounting and all clinical diagnosis
» It supports more than 6 databases currently (Sybase, SQL, MySQL) and Operating System (Windows, Linux, Terminal service,citix)

Technology

» Developed using: .NET
» Scripting Language: VB Script

Business Requirements

» The frequent change requests for the product due to development changes and customer bug fixing necessitated continuous regression testing across all code branches
» Need to execute regression testing to make sure that there is NO code break and NO new regression bugs in application on new builds
» Maintain a regression repository of more than 3000 test cases across various code branches like MAIN, DEV and RELEASE

The Approach

Our test approach was to conduct thorough functional and regression testing as well as continuously enhance the test cases as per code changes.

» The testing must ensure that all possible regression test cases applicable to particular OS/CPU/DB are tested across the application components and code branches
» The testing coverage on environments is ensured so that builds are tested in similar customer environment
» Team should have thorough expertise in DB skills, OS level skills and high scripting knowledge

Indium’s Solution & Value

» Executed the regression suite which has 3000+ test cases for all the components so far
» Tested the application compatibility in more than 100 OS/CPU/DB combinations of environments to ensure data integrity
» Regression being executed 2 times a week for development build and on demand when EBF (Emergency Bug Fixing) happens in release build
» Provided thorough bug analysis - bugs could be due to environment or product issues
» Carried System level testing such as endurance and stress testing crash and recovery test to study behavior of the product
» Product level Upgrade testing was also done

Metrics and Dashboard

Enhancing Software Quality

Feel free to reach out to sales@indiumsoft.com to find out more

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