Case Study | Functional Testing and Regression

**The Client:** Leader in providing comprehensive maintenance management software solutions to the healthcare industry

### Application Overview and Technology

- It is a maintenance management system which helps to maintain the key data of the healthcare industry.
- It has separate modules for maintaining different components like Work Order, Asset Tracking, Property Management, Schedule, Dashboard and Reports.

**Technology**

- The Application uses the latest .NET and true Web-based technologies. It uses the SQL Server as the Back end and Internet Explorer browser as the web UI.

**Tool Used:**

- Client’s custom developed tool

### Indium’s Solution & Value

- **Services Offered:** Functional Regression (Manual and Automation), tool feasibility study and Performance testing.
- **Supported 2 major releases:** 14 builds for the first release and 20 for the second.
- **Developed 126 scripts and optimized 148 existing scripts.**
- **Automated 60% of the test cases.**
- None of the performance testing tools thoroughly supported their application due to XBAP architecture.
- Performance testing team helped the client identify critical system bottlenecks prior to production.
- Provided a consultative approach for usability testing and handed over a thorough usability checklist pertaining to their application.
- Modified the database parameters for optimizing the database.

### Business Requirements

- Testing the end to end functionality of the application.
- Execute regression testing to make sure that there is NO code brake and NO new regression bugs in application on new builds.
- Identify an appropriate tool that supports WCF and XBAP technologies.
- Increase test automation coverage to bring down testing time.

### The Approach

- Understand the application functional features and architecture.
- Setup secured VPN connection to access the application under test (AUT).
- Develop Business level scenarios.
- Identify gaps in test process.
- Understanding of their custom built tool for test automation.
- Tool feasibility study for Performance testing.

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**Enhancing Software Quality**

Feel free to reach out to [sales@indiumsoft.com](mailto:sales@indiumsoft.com) to find out more.
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Defects raised in Manual Testing

Defects raised in Automation Testing

Manual Testing - Defect Status Summary

Automation Testing - Defect Status Summary

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