Functional and Performance Testing for a Healthcare Software

**Business Requirements**
- The application is a maintenance management software which helps to maintain the key data of a healthcare industry. It has separate modules for maintaining different components like Work Order, Asset tracking, Property Management, Schedule, Dashboard and Reports.
- Test end to end functionality of the application
- Execute regression testing to ensure no code break or defect leakage into production
- Identify appropriate tools that support WCF and XBAP technologies
- Reduce Test Cycle time

**Our Solutions**
- Application feature and architecture analysis
- Set up secured VPN for access
- Developed Business Level Scenarios
- Test Process due diligence
- Custom tool understanding – Test Automation
- Feasibility study for Performance Testing
- Developed 126 scripts and optimized 148 existing scripts
- Automated 70% of the Test Cases
- Conducted functional regression, Tool feasibility study and performance testing
- Performance Testing helped the client identify critical system bottlenecks prior to production
- Modified the database parameters to achieve optimization
Metrics and Dashboard

Defects raised in Manual Testing

- High: 14
- Medium: 199
- Low: 14

Defects raised in Automation Testing

- High: 5
- Medium: 17

Manual Testing - Defect Status Summary

- Closed: 14
- Not Closed: 199

Automation Testing - Defect Status Summary

- Closed: 5
- Not Closed: 17
Tools
- Client’s custom developed tools

Technology
- .NET and true web based technologies
- SQL Server
- IE (UI Web Browser)

Business Impact
- Consultative approach to Usability Testing; provided a detailed usability checklist pertaining to the software
- Supported 2 major releases – 14 builds and 20 builds for consecutive releases respectively