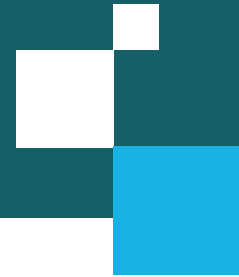# Automated QA for a Leading Provider of Renal Care Services

Client Requirement

Client is among the world's largest providers of renal care services with 200,000+ patients and 200+ locations across the US. It had multiple web and mobile applications that required continuous enhancement. Testing new builds for these applications was a manual process that was extremely time and resource intensive.

The client needed to minimize manual intervention by automating its Build Verification Test (BVT) processes, to achieve:

- Consistency across all QA processes for both web and mobile (iOS and Android) applications

- Reduction in server verification checks and greater efficiencies testing processes

- Significant improvement in the defect management process
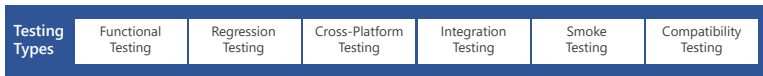
CitiusTech Solution

CitiusTech put together a team of healthcare QA and test automation experts to conduct a detailed pre-screening and assessment of the client's application environment and current testing needs. CitiusTech's solution had the following highlights:

- Development of an automated and platform agnostic mobile framework for functional / non-functional tests, concurrently on multiple devices

- Jenkins integration to execute multiple checks on the new build on pre-production environment

- API testing to validate the functionality of REST web services using REST Assured plug-in

- Ability to manage test data and maximize reusability

CitiusTech Solution

- SeeTest Automation tool for mobile automation – to test real devices instead of emulators

- Jenkins for integration of automation suites

- Apple Developer Profile to generate Device Enablement File (DEF) to identify iOS mobile objects

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Testing Types	Functional Testing	Regression Testing	Cross-Platform Testing	Integration Testing	Smoke Testing	Compatibility Testing

Automation Approach

PRE-SCREENING PROCESS → REQUIREMEMNT ANALYSIS | DESIGNING / DEVELOPMENT AND TESTING → REPORTING & MAINTENANCE

KEY MOBILE FRAMEWORK CONSIDERATIONS

- High Quality Code
- Maximize Re-usability
- Stable and Reliable Framework
- Scalable Framework

- Integration with CI environment
- Parallel Execution
- Execution on Cloud Devices
- Easy test data management

- API testing along with the Functional testing
- Gesture & Cross-Platform support
- Customized Reporting

Solution Schematic

Value Delivered

By partnering with CitiusTech, the client was able to achieve:

- 83% time saving on server verification checks
- 80% improvement in defect removal
- 28% improvement in efficiency
- 80% reduction in testing time

About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to healthcare technology companies, providers, payers and life sciences organizations. With over 4,000 professionals worldwide, CitiusTech enables healthcare organizations to drive clinical value chain excellence - across integration & interoperability, data management (EDW, Big Data), performance management (BI / analytics), predictive analytics & data science and digital engagement (mobile, IoT). CitiusTech helps customers accelerate innovation in healthcare through specialized solutions, platforms, proficiencies and accelerators. With cutting-edge technology, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare organizations worldwide.

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