

CASE STUDIES

OFFSHORE FUNCTIONAL AND AUTOMATION
TESTING – HEALTHCARE WEB AND MOBILE APP

Application Overview

- Largest US based healthcare console, web-based portal to manage their caseloads by reviewing biometric data and trends, subjective reports, and adherence.
- Solutions empower each patient to take a more active role in managing their health and improving their quality of life.
- Solution guide and empower each patient and connect them with the “right care at the right time” to prevent or mitigate adverse events.

Scope

- Functional and automation testing on both Web and Mobile apps.
- To automate the report generation process for reviewing the biometric data and trends.
- Help produce reliable study results.
- Integrate with build system to automatically trigger the executions.



Tools Used



LogCat

Charles Proxy

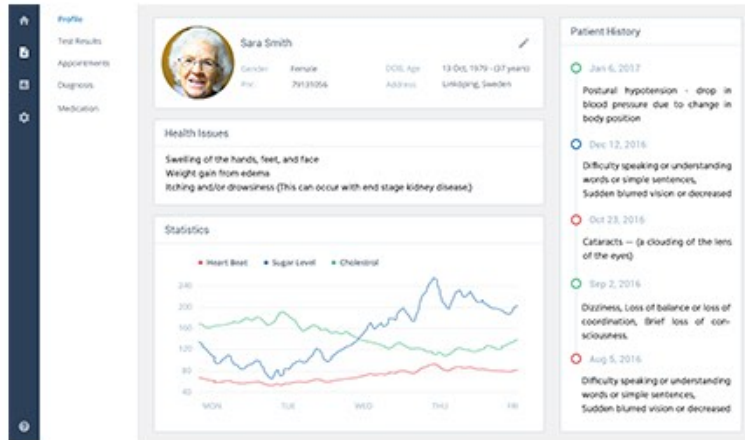
Fiddler

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Challenges



□ Process alignment was a big concern as development team was scattered across globe (Ukraine, Argentina and US).

□ Ensuring the quality of the overall application to secure FDA approval.

□ Seamless automation between Web, Mobile and the medical equipment.

Approach

□ Analyze testing requirements for all the functionalities and develop functional and automation testing strategies.

- Develop functional and automation test plans and Develop automation framework.
- Create test cases, test data and other parameters required for testing.
- Setup the test environment to simulate the readings of the actual device.
- Automate test data creation process and populate records for analysis and reporting.
- Deployment of Quality control leader for process alignment.

Results

- The process, testing and approach developed was approved by FDA (US).
- Automation resulted in saving of about 70% effort for sanity test executions.
- Complete testing and Quality control was offshored.