



Case Study | Mobile Testing & Functional Automation Testing

The Client: Leader in developing Mobile and Web Applications

Application Overview and Technology

- » It is an application which bridges the community health workers to access the health care related information from cloud using mobile devices
- » It helps in collection of data, manage patients information, integrate to multi-media, helps to connect, retrieve data and active data management for continuous improvement
- » Supports cross-platform phones

Tools & Technology

- » Developed using Python, HTTPS Rest Data APIs and Couch DB and Postgres SQL Persistence
- » J2ME Operating System (J2ME Rosa, JavaRosa XForm and RMS)
- » Android Operating System (Open data Kit Collect, JavaRosa XForm and SQL Lite)
- » Defect Tracking tool: FogBugz (Internal Client Tool)
- » Automation tool: Selenium Robot Framework (Web platform)

Business Requirements

- » End to End functionality testing on mobile device such as Samsung Galaxy Y with Android (Version - 2.3.6) and Nokia C2-01 with Symbian (Version-Series 40)
- » Frequent release necessitated the need for regression automation
- » No documentation and no mapping of data
- » Installation procedures for mobile application were not clear
- » Initially we faced response delay from their development team for debugging and providing updated versions

The Approach

- » Understand application functional features and design
- » Formulated test strategy to validate application on identified devices
- » Prepare procedure to install the mobile application
- » Testing both positive and negative test scenarios

Indium's Solutions

- » Service Offered: Mobile Testing on Applications - Functional Testing, Usability Testing, Sanity Testing, Test Automation on Web Platform
- » Re-structured Test Cases provided by the client to perform test process ensuring the proficiency and effectiveness of the application
- » Complete coverage of functionality with mobile operating systems Symbian and Android with various scenarios to deliver 100% User friendly application

Value

- » Enhancements/Feedback to the application were suggested from the end-user's point of view
- » Accomplished exploratory testing service ensuring its quality
- » Created a knowledge repository for future use



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Checklist Items	# of Items Created	# of Items Executed	# of Items Passed	# of Items Failed	% Items Failed
Mobile Testing	89	89	76	13	14.60
Test Automation For Web Platform	39	39	38	1	2.56



Mobile Testing Metric

Defect Severity	Count
Critical	10
High	10
Medium	14
Low	18
Total	52