



## Case Study : Test Automation for a Cloud based healthcare

### Project Overview

**Objective:** Keeping track of medical records can be difficult if health information is in multiple places, in various formats. The app makes the job of organizing this information easier. It is a Cloud based healthcare app that collects and manages data from various sources, including wearable, lab reports, and doctor and hospital visits.

#### Challenges

- Minimal Documentation
- Ad Hoc QA Process
- Doing daily builds not possible
- Regression Testing was all manual, thus requiring more than 24 hours of regression effort
- CI/CD was hampered due to above
- Integration challenges for EHR, geofence restrictions etc.
- Defect leakage high due to insufficient device coverage and less regression testing due to lack of time

### About The Client:

The client is a mobile application provider for individuals to aggregate, organize, and share their medical records on a block chain

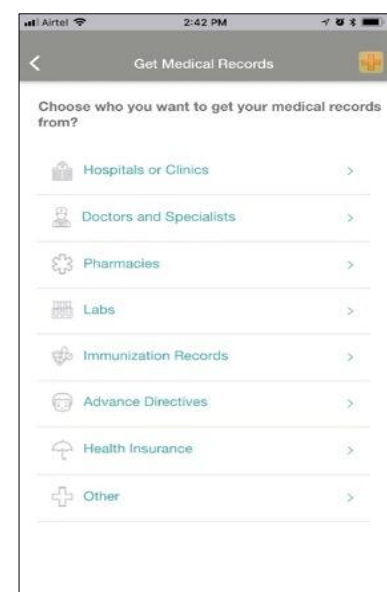
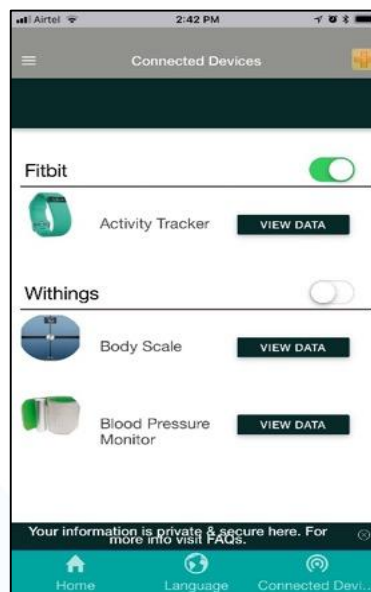
## Case Survey

- ❖ Implement automation to minimize regression time.
- ❖ Create test artifacts for better understanding and ramp up.
- ❖ Design QA processes to streamline releases and make it a predictable process.
- ❖ Make it a continuous integration process.

## Technology



## Application Snapshot



## Our Solution

- ❖ API Automation done extensively to test various combinations and integrated with build triggers thus providing quick feedback about build quality
- ❖ End to End UI Automation done using Appium
- ❖ Performance Testing using JMeter
- ❖ Automation triggered through Jenkins build job
- ❖ Jira used as test management tool to create required test artifacts and collaboration with stakeholders
- ❖ ITAF enabled continuous integration & deployment

# Business Benefits Delivered

Before	After		
0%	85%	Manual            Automated	All Regression cases automated
24 hours	2hours		Regression time reduced by 90%
8%	0.50%		Almost Nil defect leakage
200	1500		Test case increased 7 fold.
3 per Week	Twice a day		Faster time to market
2	8		Product now tested on all supported Devices(Device Coverage)
			70% cost reduction with India team

## About InterallT

InterallT is a global IT consulting & services company providing business software solutions that improve operational efficiencies. Our robust, reusable and seamless frameworks coupled with range of testing tools and techniques enable us to provide an unbiased and transparent assessment of software quality. Established in 1996 & headquartered in San Jose, InterallT is a ISO 9001-2015 SEI-CMM level 5 assessed and certified organization with world-class delivery.

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