



# Mobile App Testing for an online Diamond Store

## About Us

Devstringx Technologies ([www.devstringx.com](http://www.devstringx.com)), Leader in Product Development, Mobile Apps Development and Independent Software Testing Services, headquartered at Noida, India. Devstringx is ISO 9001:2015 certified and also a NASSCOM member. Devstringx has its own Mobile and IoT Test Lab.

## The Client

One of the most trusted United States family-owned house of diamond jewelery design. Its a veteran diamond jeweler known for its refined engagement rings plus modern & vintage-style designs. Company was founded in 1910's. The company's line of business includes the wholesale distribution of jewelry, precious stones and metals, costume jewelry, watches, clocks, and silverware.

## Technologies Used

Appium, Amazon Device Farm, Java, Eclipse, Android, iOS, TestRail, Jenkins, Jmeter, JIRA

## Business Challenge

As a major player in the United States client is constantly and aggressively expanding its digital platforms. Their Mobile Application was required to support multiple platforms, and integrate with multiple systems. This required comprehensive testing to ensure delivery of a high quality application to the end users.

Testing scope was huge as there was a large set of devices upon which testing needed to be carried out in short time interval.

## Solution

We provided cross-skilled testing capacity for test case documentation, test automation and execution.

Over 330 manual functional test cases w documented.

Using the open source tool Appium, we coded a set of fully automated test cases consisting of over 200 tests.

Integrated tests with AWS device farm to execute tests on different devices.

We also developed a set of load testing scenarios using Jmeter, deploying the load testing environment in the Amazon EC2 cloud.

## Benefits

We identified over 150 functional bugs and managed to significantly lower down the testing cycle time using automated regression tests which helped in shorten the lead time to release. Our analysis of the load testing results identified issues that helped tune the performance so that the target throughput and response times goals can be met. The client was able to provide an excellent quality API product that was easily accessed and used by third parties to write programs.