



# *Automated Regression Testing for a Vehicle Tracking and Fleet Management System*

## About Us

Devstringx Technologies ([www.devstringx.com](http://www.devstringx.com)), Leader in Independent Software Testing Services, is 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

Provider of cloud-based GPS vehicle tracking and fleet management solutions for businesses and consumers.

- Have 6 regional offices in US.
- Over 300+ employees.
- Over \$140 million revenue

## Technologies Used

Python, RobotFramework, Groovy, BrowserStack, TestRail, TeamCity, Jmeter, JIRA

## Business Challenge

Our client is a global provider of fleet management, driver safety and vehicle tracking solution. Their Software as a Service model currently provides solutions in over multiple countries world-wide. Our client wanted to reduce their regression testing cycle so that lead time to release can be reduced. Client had identified well over 700 functional test cases as candidates for automation testing which fall under the web-based Fleet Management product. One of the critical need was that test should work on Chrome, Safari, IE, Edge and Firefox.

## Solution

Using the open source tool Robot Framework, we coded a set of fully automated test cases. Integrated tests with BrowserStack to execute tests on different browsers. Parallel execution across multiple execution machines in order to reduce execution time.

## Benefits

We automated over 700 tests and managed to significantly lower down the testing cycle time using which helped in shorten the lead time to release. During automation of the tests and during regression cycle we collectively identified 130 bugs. The client was able to provide an excellent quality product.

