10+
YEARS OF EXPERIENCE

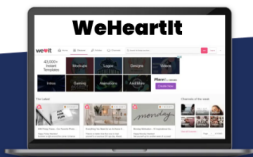**1M+**
HOURS WORKED

100+
ENGINEERS

300+
HAPPY CLIENTS

Case Study:
WeHeartIt

Mobile Automation Testing, Performance Testing,
Mobile Testing, Software Testing Consultancy

WeHeartIt

Project Overview

What WeHeartIt had in the testing processes when they came to us and what they got after they started working with us.

Before improvement

- There was no formal QA process on the project
- Bugs were poorly described

After improvement

- Multi-threading allowed us to reduce the time taken for all 2000 scenarios run from 12 hours to 2 hours
- Integrated our web automation tests with bug tracking and team management systems
- The statistics about all test runs are stored on CI side
- Designed a complex architectural solution for automated tests from scratch
- Automation regression testing took 2 hours instead of 2 weeks of manual testing activities

64GB RAM
SERVER WITH 15 VMS

2,000
AUTO TESTS DEVELOPED

45
PARALLEL THREADS

15
VIRTUAL MACHINES

400%
EFFICIENCY

6
BROWSERS

QA Team:
3 Automation Test Engineers

Project length:
1 year

TECHNOLOGIES & TOOLS

- WebDriver.io
- JavaScript
- Linux
- Jenkins
- Multithreading
- BrowserStack
- REST API
- Bamboo
- xCode
- Android Studio
- JMeter

The Challenge

We Heart It is a social network for inspiring images. Users collect the images to share and organize into collections.

The task was to cover 95% of the application with automated tests to quickly and reliably answer the question – "Can we deploy?" We needed to design test suite architecture which allowed us to run tests in dozens of threads on 6 different browsers. At the same time, we needed to develop atomic scenarios to avoid collisions during the execution of parallel tests. We also needed to consider using API to increase the speed of duplicated activities and prerequisites for creation of entities before the tests through database.

At the same time, there was no formal QA process on the project, so we needed to design it and familiarize the rest of the team with it.

Achievements

We developed quite a complex environment to run automated tests for this project. We were given a 64GB RAM dedicated server on which we setup and ran 15 virtual machines. There were three browsers running in parallel on each VM. In total, about 40-45 browsers were run in parallel at the same time. Multi-threading allowed us to reduce the time taken for all 2000 scenarios run from 12 hours to 2 hours and, as a result, the team was able to answer the question of "Can we deploy?" more quickly.

Tests were run on 6 various browsers and their different versions. We also integrated our web automation tests with bug tracking and team management systems. So, when tests are completed, the bugs that were automatically created on BTS side and the appropriate test cases are marked as failed/passed for specific test run. The statistics about all test runs are stored on CI side, so you can always see the history of your builds. At the end of each test run, the fully featured view report was sent out with detailed information about passed/failed scenarios.

Services Provided

A team of 3 senior automated test engineers worked on the project and designed a complex architectural solution for automated tests from scratch. Starting from the first days, our framework was integrated into client's continuous integration process. The number of tests increased on daily basis and the client felt the immediate progress.

Mobile Automation Testing →

After few months of work, a portion of the team switched to performance and load testing. That was considered a one-time choice and clients should understood how quick and reliable the product is.

Performance Testing →

Other than the fact that the client had an in-house manual testing team, which was focused on testing the mobile application, we helped them on periodic basis, especially close to releases.

Mobile Testing →

Initially, the client hired us as quality assurance consultants to audit current testing processes and propose improvements. We analyzed current approach and made a proposal. All our recommendations were implemented.

Software Testing Consultancy →

Let us know your details
so we can get back to you for discussion!

Telephone:
+1 805 491 9331
+44 1922 214429

Skype:
deviqa_co

Email:
info@deviqa.com

https://www.deviqa.com/

1. **Free proof of concept**
   We will conduct a free proof of concept and prove that you can trust our quality assurance services

2. **12 hours to start**
   Within 12 hours, our team is ready to start your project

3. **Quick team resize**
   The size of the QA team on your project could be resized in no time

4. **Daily progress reports**
   We send an email report with detailed statistics and progress on daily basis