



10+ YEARS OF EXPERIENCE

1M+ HOURS WORKED

100+ ENGINEERS

300+ HAPPY CLIENTS



Case Study: Mobile Messenger

Mobile Automation Testing, Mobile Testing, Software Testing Consultancy



Project Overview

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



Before improvement

- No automation tests
- The regression testing took about 5 days
- Poor and outdated test cases
- Not informative bug reports



After improvement

- Set up and use CI (continuous integration) based on Jenkins
- Kept in touch with clients in-house testing team
- QA Lead participated in the formation of test cases to automate testing at each sprint
- Built an effective process with the customer development and testing teams
- Time of regression testing decreased from 5 days to 46 hours
- Mobile and desktop apps were covered with autotests for all main functionalities
- Automation tests run on 3 real devices in parallel
- All legacy test cases were updated
- More than 3200 test cases created
- Standardized bug reports with all required info and attachments

1700+ AUTOMATED TESTS

120+ BUGS FOUND

3200+ TEST CASES DESIGNED

20+ THREADS

40% CRITICAL AND MAJOR BUGS

QA Team: 4 Full-Stack QA Engineers

Project length: 1 year

TECHNOLOGIES & TOOLS

- iOS
- Android
- Appium
- Java
- TestNg
- Allure
- Jenkins

The Challenge

Mobile Automation Testing of an instant messenger with end-to-end encryption algorithm.

With an instant messenger that uses end-to-end encryption algorithm, users have all conditions for secure messaging, secure calls, secure file sharing, etc. The client already had test cases, which were prepared by the in-house testing team.

The main task was to do automated testing of the full functionality of a mobile application on real devices, excluding the use of emulators.

The challenges we faced with:

- Running tests using at least 3 devices in parallel;
- Connecting a new device or replacing an existing one with minimal effort;
- Problems of test logging;
- Restarting failed tests;
- WDA initialization instability;
- And many others.

[Read More on Our Blog](#) →

In addition, it was necessary to reduce the time of regression testing which took about 5 days, before we started.

During the work, we also helped the client's in-house testing team with developing new test cases, since their test cases were poor.

Achievements

We decided to use the Java + Appium + TestNG + Allure stack, and for the effectiveness of our solution, we used continuous integration based on Jenkins.

When working with the client, we constantly kept in touch with their in-house testing team. Our QA Lead participated in the formation of test cases to automate testing at each sprint. We have built an effective process with the customer development and testing teams.

Our solutions, in the form of starting work primarily on critical test cases, allowed the client to feel the results from the first week of cooperation.

As the result the time of regression testing decreased from 5 days to 46 hours.

Services Provided

Our engineers developed more than 1000 test cases in addition to the 2200 test cases from the client's in-house testing team

[Mobile Automation Testing](#) →

4 Full-Stack QA Engineers were involved in work with the project. They successfully developed more than 1700 tests, which covers about 3200 test cases.

[Mobile Testing](#) →

Our QA Lead was involved in the process of formation test cases for each sprint.

[Software Testing Consultancy](#) →

Let us know your details

so we can get back to you for discussion!

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- Free proof of concept**
We will conduct a free proof of concept and prove that you can trust our quality assurance services
- 12 hours to start**
Within 12 hours, our team is ready to start your project
- Quick team resize**
The size of the QA team on your project could be resized in no time
- Daily progress reports**
We send an email report with detailed statistics and progress on daily basis