

# QA Bottleneck

## Customer

Startup providing a mobile application to help users organize their finances. We worked together developing the solution which enables users to gather their invoices in one place and pay them through the application as well as quickly switch to the different service provider based on price and quality comparison.

## General Problem

Quality Assurance was a bottleneck in the project - testing of the mobile (iOS, Android) and web applications took too much time so the feedback for developers was late, and, as a result, it prolonged the whole development time and the deployments of new versions.

## Technologies

- Hiptest
- Jenkins
- Fastlane
- Postman
- Selenium
- Appium

## Solution

- Implementation of tools for manual tests management (Hiptest)
- Preparation of Continuous Integration in cooperation with DevOps team (Jenkins + Fastlane)
- Improvement of workflow in cooperation with Project Manager
- Preparation of recommendations for test automation: automation plan and frameworks for every level of test automation (API: Postman+ Newman, mobile E2E: Appium, web E2E: Selenium)

We prepared several solutions for that problem. First of all, we have implemented the tools for manual tests management (Hiptest). Secondly, together with the DevOps team we introduced Continuous Integration (Jenkins + Fastlane). Then we prepared some recommendations for test automation - automation plan and frameworks for every level of test automation (API: Postman+ Newman, mobile E2E: Appium, web E2E: Selenium). Last but not least, we suggested some improvements for the workflow (in cooperation with Project Manager).

## The Results

Taking into account all the improvements we have implemented, developers received feedback approximately **50% faster**. Almost all of the tasks were tested during the current sprint.

