Testing of Data Storage Application Of High Performance

Online system that provides access to the macro- and micro-economic data on developed and emerging markets. It is intended for analysts, consultants, economists, managers, as well as research institutions, investment banks and other entities and individuals who need to conduct research efficiently and perform data analysis.

Challenges for QA team

The main challenge for QA department was automation of functional and GUI tests to verify large volumes of statistical data and export Excel files. Additionally, automated acceptance and regression tests were carried out. QA had a task to continuously monitor application performance and service availability from anywhere. Security testing was necessary to carry out at the end of each release cycle along with verification of the critical path and GUI functionality of the whole app. In addition, it became necessary to validate product localization.

Types of software testing

- Automation testing
- Functional testing
- Exploratory testing
- Integration testing
- Localization testing
- Performance testing
- Regression testing
- Security testing

Tools and Platforms

Tools: Jira, Google Docs, Java, WebDriver, jmeter
Platforms: Windows, iOS
Browsers: Chrome, Firefox, Edge

Team engaged

2 QA engineers

Tools:

- Jira
- Google Docs
- Java, WebDriver
- jmeter

Platforms:

- Windows
- iOS

Browsers:

- Chrome
- Firefox
- Edge

Bug report

- Testing checklist
- Developed test cases
- Functional testing scenarios
- Test plan
- Test report
- Daily automation test reports
- Security test reports
- Daily performance test reports
- Sprint reports

Testing results

To conduct automated tests in full, a separate server was started to run and pass tests, which helped to detect bugs in a timely manner and see the actual status of the product for both developers and customers. Performance and load testing helped to identify weaknesses in the application, which resulted in fast and stable operation of the service. The results of types of testing depending on the type and form are recorded in the bug-tracking system and presented as comprehensive reports for customers and developers.

Thanks for reading!