

TASKS

You are selected as a QA to a new project the in company. The client behind the project is very dissatisfied with the quality of the application delivered by the previous software company. Netguru was chosen as a new software house to improve the quality of the application. The project faces problems such as: multiple bugs (also on production), poor UX and performance issues. All those defects make the application very unattractive for users.

- What steps would you take to improve the quality of the app?
- What kind of tools, processes, documentation would you introduce?

Please refer to both your previous experience and general QA knowledge and give examples.

Good testing is based on the good test plan that we have prepared. Test planning and control involves such activities as: define test strategy and approach, define scope the scope of testing, identify the objectives and risk associated with the testing, plan resources, identify tests tasks and tools, plan tests for specific testing like UI testing or performance testing. The SRCUM or incremental model of software development guarantee that the product could be analyzed by the client who respond to each building.

Once the test planning is completed, before implementing the plan, test analysis and design activity should take place for better implementation. Analysis broke the complex topic into simpler in order to gain better logic. Test analysis and design involves such activities as: review the test basis (requirements, architecture and product), identify test conditions, design test cases based on the technique selected during planning, write scripts and test data. I would like to introduce test design techniques based not only on requirements but also based on user experience and on defects found previously.

Once the design process is completed, test implementation and execution activity should take place for better test coverage. Better Implementation of the test plan drives us to success. Test implementation and execution involves such activities as: implement the designed test conditions, created test suites (group test cases together that have the same set of behaviors), execute the developed test cases and scenarios using the test data, execute necessary automation test scripts, execute the tests in different test environments, Re-execute the tests that are failed in the first place to confirm the bug fix, verify the actual and expected results of the test cases, report the discrepancies in the result as incidents. I would like to perform join test session with customer. This way client could see how the application is working and its UI early in the development phase. We should also process automatic test to reduce performance issue.

The following table shows options of tools we can choose do conduct our project:

Test Management	Test Automation	Performance Tests
<ul style="list-style-type: none">• JIRA with XRay plugin• Quality Center (ALM)• Test-link	<ul style="list-style-type: none">• QTP – Mirco Focus UTF (Unified Functional Testing)• Selenium	<ul style="list-style-type: none">• Apache JMeter