ABSTRACT

Technological developments in business, including shipping companies, encourage the use of Logistic Service Integrators (LSI) to integrate shipment companies, aggregators and fleet owners. LSI testing is carried out using the Black Box method using the Katalon framework, which focuses on system functionality. This report discusses automated testing of LSI with Katalon, utilizing the Record and Playback feature for efficiency and quality. This automated testing is proposed to replace manual testing, does not use White Box and Test-Driven Development methods, and focuses on the role of SQA.

The White Box method is not used because this testing requires in-depth knowledge of the internal code structure and program logic, which is not necessary in the context of testing external functionality and user requirements. Test Driven Development (TDD) is not implemented because this approach requires writing tests before the application code is written, which can slow down development if the team is not familiar with this method.

The author uses flexible and collaborative agile methods in software development. Agile allows for quick adaptation to changes during a project, encouraging open communication between teams and stakeholders. Specifically, the agile Scrum model is used, which divides projects into short iterations called sprints. Each sprint involves planning, execution, reviews, and retrospectives to ensure results continually improve and meet user needs.

PT. Indo Trans Teknologi (TransTRACK.ID) is a transportation technology company in Jakarta, which has successfully penetrated international markets such as Malaysia, Singapore and Thailand. In the Quality Assurance division at TransTRACK.ID, QA is tasked with ensuring product quality through creating Test Cases, implementing tests, identifying bugs, coordinating with the development team, verifying changes, and documenting test results. Migration to automated testing with Katalon is recommended to improve test efficiency and quality, as well as support TransTRACK.ID's efforts in improving product quality and system development efficiency.

Keywords: Logistic Service Integrator (LSI), Katalon, Automated Testing, Quality Assurance (QA), Agile Scrum