

***Implementation of Automation Testing on the Drug Inventory Web Application at
Doko Community Health Center Using Katalon Studio***

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ABSTRACT

This research focuses on the implementation of automation testing using Katalon Studio on the Drug Inventory Information System at Doko Community Health Center to ensure the quality and functionality of the system in accordance with user requirements. The testing process consisted of Unit Testing, Integration Testing, System Testing, and User Acceptance Testing (UAT). In addition, Regression Testing was conducted as a supplementary test by re-executing the testing scenarios using Admin, Doctor, and Superadmin accounts to ensure that all system functions operated properly for each user role. The testing results showed that Unit Testing achieved a 100% success rate for all tested modules, Integration Testing successfully executed all 10 tested functions without failures, and System Testing successfully passed all 303 test cases. Meanwhile, User Acceptance Testing (UAT) obtained an average score of 92%, which falls into the excellent category. Regression Testing also showed that all re-executed testing scenarios were successfully completed with a Passed status. Based on these results, the implementation of automation testing using Katalon Studio proved to be effective in ensuring the quality and functionality of the Drug Inventory Information System, indicating that the system is suitable for implementation at Doko Community Health Center.

Keywords: Automation Testing, Katalon Studio, Drug Inventory Information System.