ABSTRACT

Vocational High School 10, as an educational institution, is inseparable from the recording of goods and assets. However, the current inventory process at the school is not running optimally due to the data collection being carried out conventionally, which results in obstacles such as poorly recorded inventory reports of goods and assets owned by the school and the absence of reports when items are lost. This research aims to create a system that is expected to facilitate the school in recording goods and reporting borrowing items. This research itself will focus on implementing automated *testing* using Katalon Studio on the web-based inventory system to be built. *Testing* will be conducted on three main modules: the Profile module, the Asset module, and the BHP module with *test case*s compiled using a black-box *testing* approach with the *Equivalence Partitioning* technique. The results of the *testing* show that automated *testing* is 48.5% faster than manual *testing and 9,7% more efficient*. The implementation of *Automation testing* with Katalon Studio has proven effective in ensuring the quality of the SMKN 10 Bandung inventory system, increasing reliability, reducing the risk of errors, and accelerating the *testing* process.

Keywords: *Katalon Studio, Inventory System, Automated Testing*