

# Automated website application testing using Katalon

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**Abstract:** This topic focuses on applying the Katalon tool to automate the testing process of a web application, aiming to optimize the efficiency and accuracy of test cases. The research context shows that with the rapid development of digital technology, regular and comprehensive website testing has become more important than ever. The objective of the study is to build an automated web testing system to support the technical team in the product quality inspection process. The research method combines software testing theory with practical implementation of the Katalon tool. Expected results will provide a detailed evaluation of the system's performance, thereby confirming its applicability and significant improvements in the product quality management process.

**Keywords:** Automated web testing, Katalon Studio, Test optimization, Digital technology, Software testing