Implementation and Analysis of Automation Testing on SIMOV Website
(Vector Monitoring System) Using Katalon Studio

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ABSTRACT

Dengue Hemorrhagic Fever is a disease transmitted by the Aedes Aegypti and Aedes Albopictus mosquitoes in tropical and subtropical regions. Preventing and controlling DHF requires collaboration between the government, community, and health sectors. The System Monitoring Vector (SIMOV) is a website under development to map the spread of the dengue virus by collecting data on the Larva-Free Index (LFI) and mosquito vector distribution patterns. Software testing for SIMOV is essential to ensure its functionality. This study conducts both manual and automated testing using Katalon Studio to enhance the validation of SIMOV's features. The initial phase involves identifying requirements and designing test scenarios. The testing results indicate that 5 out of 10 features have high priority, with 95 test cases passing and 25 test cases failing. The analysis shows that more comprehensive testing and improved testing methods are needed to ensure system stability and performance. A more extensive data collection is also recommended to increase the accuracy of the analysis.

Keywords : Automation Testing, Katalon Studio, Website, Monitoring Vector System.