Abstract

Software testing is the most important stage of the software development cycle. A dynamic web page is an example of a software application that can be tested. Functional testing for each features on a dynamic web page is aimed at testing the functionality to conform the specifications. To achieve a result from functional testing, there are elements of features on dynamic web pages that require keywords. These keywords are used as markers of actions or action performed on elements that will help to build the test case. It becomes a challenge to find the right keywords to test dynamic web pages. To solve this problem, this thesis analyzes the use of a keyword-driven testing approach when making test cases for the Katalon application based on one of the concepts in ISO/IEC/IEEE 29119, namely Keyword-Driven Testing in The Test Design Process. Chosen that concept because it is one of the concepts that has successfully implemented a keyword-driven testing approach. The results of the analysis show that making test cases using keywords is easier to understand and do and Katalon supports a keyword-driven testing approach for automated testing. However, when making test cases it takes effort to add or change keywords to prevent errors.

Keywords: Dynamic Web, Automated Testing, Keyword-Driven Testing