ABSTRACT

Application quality is one of important aspect in ensuring reliability and user confidence in the era of fast-growing technology. PT. Era Elektra Corpora Indonesia, as a company engaged in installation and maintenance of weather radars, needs a reliable information system to support the company's operations. This information system supports operational activities of radar management, assisting managers tasks to technicians, and inventory management. This research implemented automated functional testing on PT. Era Elektra Corpora Indonesia's information system using Software Testing Life Cycle (STLC) to ensure the functionality of the information system has been well built. The research was conducted using STLC stages, ranging from requirements analysis, test planning and preparations, execution of tests, to closure of tests. Selenium Webdriver was used as a tool in automating these tests. This implementation has proven to be effective in ensuring that information systems operate consistently and reliably. This implementation shows that out of all functionality of this system, testing success rate achieved a percentage of 87.67%.

Kata kunci: *automated testing*, *functional testing*, Selenium Webdriver, *Software Testing Life Cycle* (STLC)