

ABSTRACT

Software testing is crucial in ensuring the functionality and performance of systems operate well. PT Telkom Indonesia faces challenges in ensuring the smooth operation of the order-to-cash business process in SAP ECC 6.0 functions correctly and meets established standards. This business process includes lengthy and crucial sub-processes vital to the company's operations, such as create customer data, create customer bill, create payment data, and displaying transaction results. The current manual testing conducted by PT Telkom Indonesia is deemed inefficient as it takes a considerable amount of time. Implementing automated testing using Power Automate software successfully addresses these issues. This study aims to implement automated testing for the order-to-cash business process in SAP ECC 6.0 using Power Automate and identify the most efficient testing method among manual testing, no-code automation with Power Automate, and pro-code automation with Power Automate. The research method used in this study is the Software Testing Life Cycle (STLC), consisting of six stages: requirement analysis, test preparation, test scenario development, test environment set up, test execution, and test closure. The research results show that implementing automated testing with Power Automate significantly reduces the time required for testing compared to manual testing. Manual testing takes 36 minutes and 55 seconds, while no-code automation takes 16 minutes and 55 seconds, and pro-code automation takes 2 minutes and 24 seconds. Automated testing with pro-code automation is superior in terms of time efficiency, making it the most efficient choice for testing the order-to-cash business process at PT Telkom Indonesia. This is expected to provide significant benefits for the continuity of business processes at PT Telkom Indonesia and can serve as a guide for implementing automated testing in the future.

Keywords— software testing, automated testing, STLC, order to cash, Power Automate