Abstract

Core banking is the core application of the banking system that functions to manage transaction activities, customer information files, and various services for other banking customers. Therefore it is important to carry out performance testing so that it can be ensured that the core banking system can still run properly when the number of customer activities in the banking sector increases. Performance testing is one of the non-functional tests on software that aims to measure the reliability of an application such as response time, transactions per second, and access stability of systems and applications under the given workload. There are several methods in performance testing that will be used, such as load testing and stress testing. Load testing is carried out to test the application under the expected load. Before running load testing, stress testing will be carried out first to get the maximum value of the load that can be handled by the application which will then be used to run load testing. After executing the performance test, found results that can meet all objectives. The results obtained show that the core banking system at PT. XYZ is stable enough to handle the expected load.

Keywords: *performance test*, *load testing*, *stress testing*, *loadrunner*, *core banking*