

ABSTRACT

In today's digital era, research data management is very important for academic institutions, especially in supporting research and community service activities. Telkom University PPM Directorate developed a web-based dashboard to optimize research data management. This research focuses on the implementation of MariaDB as a database management system (DBMS) in the development of the dashboard. Agile Scrum methodology is used in the development process to ensure flexibility and efficiency in resource management. In addition, database performance testing was conducted using Apache JMeter to assess MariaDB's performance in supporting dashboard operations. The test results show that MariaDB is able to provide adequate performance with high efficiency in managing research data. Thus, it is hoped that this implementation can make a good contribution to the development of information systems in the academic environment.

Keywords: *MariaDB, Agile Scrum, Apache JMeter, Dashboard, Database Management System*