# ABSTRAK

The purpose of this research is to create and integrate a MariaDB database management system with a research and innovation dashboard in academic and research institutions. The system is intended to improve the management of scientific publication data and aid better decision-making in academic environments. To evaluate MariaDB's performance under intensive and continuous workloads, endurance testing was conducted. The test results show that MariaDB is able to handle high workloads consistently and efficiently, with optimal memory usage, lock efficiency, and consistent data traffic. Thus, the system proved to be reliable and suitable for use in academic environments that require high performance and availability. Strengthening data security mechanisms, scaling up the system, and testing on a larger scale to ensure long-term operational capabilities are suggestions for further development.


Keywords: MariaDB, Database Management, Research Dashboard, Endurance Testing, Academic Institution.