

ABSTRACT

The advancement of technology has significantly impacted business operations, especially for micro, small, and medium enterprises that still rely on conventional methods for sales recording. This situation leads to risks of data errors, duplication, and loss of transaction records, hindering operational efficiency. This study develops a website-based sales backend system using the Agile methodology to provide an adaptive and responsive solution to changing user needs. The backend system is designed with a REST API architecture utilizing the Go programming language, Gin-Gonic framework, and PostgreSQL database to ensure structured and well-integrated data management. The implementation of Agile allows iterative development with unit testing and black box testing using Postman to ensure functional compliance. Test results show that the system improves the speed and accuracy of transaction recording and supports more efficient store operations. The contribution of this research is a flexible and reliable backend development as a foundation for digitalizing the store's sales system.

Keywords: *backend, sales system, REST API, agile, software testing*