PENGEMBANGAN SISTEM KASIR UNTUK TOKO AYULA DENGAN PENERAPAN METODE *AGILE* BERFOKUS PADA AKSES KONTROL *READ-ONLY* BERBASIS *WEBSITE*

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ABSTRACT

Grocery stores play an important role in meeting the daily needs of the community and serve as local economic centers. Many grocery stores still rely on manual systems to manage transactions and inventory, which leads to issues such as transaction delays, recording errors, and difficulties in stock management, especially during busy periods. Ayula Grocery Store, for instance, faces these challenges, which hinder the efficiency of customer service. The implementation of a web-based digital cashier system integrated with inventory management can provide a solution to these problems. This digital system allows for the automation of transaction processes, more accurate data storage, and more efficient stock monitoring. Furthermore, the application of Role-Based Access Control (RBAC) to manage access rights ensures the security and integrity of the data. The development of this digital cashier system using the Agile method enables flexible and responsive software development to meet the store's needs. The system is tested using a black box approach and use case testing technic to ensure the functionality meets the required specifications. By using MySQL as the database, this digital cashier system is expected to improve transaction speed and accuracy, as well as support operational efficiency and customer satisfaction. The implementation of this system will help Ayula Grocery Store optimize business management, reduce errors, and speed up customer service.

Keywords: *Grocery store, digital cashier system, inventory management, transactions, Role-Based Access Control (RBAC), Agile, black box testing, use case testing, MySQL, operational efficiency, stock management, customer satisfaction, information technology.*