**ABSTRACT** 

TULT mini mart is a store with a traditional service system that still relies on cashiers for

ordering and payment processes. This system causes long queues and inefficient service times,

especially during peak hours. These conditions affect customer comfort and operational

effectiveness. Therefore, research needs to be conducted to Address the main issues, namely

long waiting times and dependence on cashiers in the transaction process.

The solution proposed in this study is to develop a web-based self-service application

system that allows customers to place orders and make payments independently. This system

was developed using the Laravel and Bootstrap frameworks and integrated with Midtrans as a

digital payment service provider via the QRIS method. The application also includes features

such as *Product* catalog login, shopping cart, checkout, and transaction management by the

admin.

Testing results show that the average transaction service time has decreased to

approximately 8.86 seconds per customer. With an arrival rate of 4.09 customers per minute

and a service rate of 9.09 customers per minute, the utility value ( $\rho$ ) is 0.45, indicating the

system is in a stable condition. Functional and structural testing showed that the system

operates as expected. Thus, this system is capable of improving efficiency and user experience

in the shopping process at the TULT mini mart.

Keywords: Self-service, Laravel, Mini Mart, Midtrans, Queue

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