

ABSTRACT

In general, buying ticket of Transjakarta bus (busway) is performed by cash in the bus stations. In this procedure, customers should provide their cash for using the transportation.

Smart card technology was triggered by high demand of secure, easy, fast financial transactions. Other applications of smart card are card telephone payment, control access, personal identity, etc. A smart card can be used for some applications simultaneously since it has some memories to be stored by some different data from the applications. Applications of smart card, in general, can be separated in three categories: data carrier, identification, and financial. One interesting smart card application is as a payment card. By integrating a Personal Computer (PC), a card reader, a contactless smart card, Visual Basic 6.0 and MySQL database, a payment application can be developed as an alternative Transjakarta (busway) bus ticketing system.

Application of contactless smart card as a payment card in Transjakarta (busway) is very effective since a transaction needs shorter time and easier management rather than conventional payment.

Keywords : contactless smart card, *kartu langganan bus transjakarta* (busway)