ABSTRACT

At this time the rapid industrial growth requires a sophisticated equipment to support the production process, especially on that level of security. With the advancement of technology, then found RFID (Radio Frequency Identification). RFID technology utilizes radio waves in the process of identifying.

In this final project designed a system of payment on a train ticket automatically using RFID sensors. This system uses a database that is displayed using Visual Basic. When prospective passengers who have registered passengers entering the platform will be ordering tickets through an RFID card. The card also functions as a know-tag tickets with RFID cards. After that will perform the identity and value of outstanding passenger, then the passenger can select the train, destination, and departure schedules. RFID cards have been registered as a train ticket the selected. Passengers will also get a printout proof seat ticket.

Reader is able to detect the tag, although hampered by an insulator body. However, only a limited distance of RFID tags sampai 7 cm. And the reader is not able to detect the object tag when blocked conductor. In accessing databese, here we are using microsoft access and access to eight databases, all databases are located on the server. A database for customer data and databases to seven passengers in each train every day. Customers can only book a maximum of six seats in one day.

**Key Words:** RFID, train tickets, database, Visual Basic
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