ABSTRACT

A trolley is a tool used to carry goods. Like in the supermarket, people will need a trolley to make it easier to carry groceries or other luggage. Trolleys have a variety of genders in accordance with their respective uses, but with the usual trolley used today can only carry items from one place to another. In the current development are still many problems that are found, namely lack of the budget when making a payment at chasier.

So it is necessary to create a trolley that can know the total price of goods brought. In this final project discusses about the design of smart trolley, to know the total price of goods brought, using rfid reader as rfid card reader, this rfid card is used to display the price of each goods stored on the goods shelf, the price of goods and the total price of goods displayed on the LCD screen stored on the trolley, then the goods data shopping will be sent to the database for processing and forwarded on the application cashier.

The results for the tool show that the system on smart trolley can work well. Smart trolley is able to detect rfid card with maximum range of 3 cm and the most appropriate time when processing database 01.31seconds, while the longest time 04.17 seconds.

keywords: smart trolley, rfid card, rfid card, LCD