ABSTRACT

The rapid growth of technology in life makes it easier for us to perform activities. Like buying canned drinks with machine, gate payment of toll with e-money, payment of busway with e-money. One of today's emerging technologies is RFID (Radio Frequency Identification).

RFID (Radio Frequency Identification) is a wireless technology used to transform the commercial world. As a barcode replacement technology, RFID can do many things. Among the RFID systems offer increased efficiency in control of the inventory, and logistics .In this case the use of RFID is used to improve the efficiency of borrowing and return of books, especially self-service that will be implemented in Open Library Telkom University. Where now Open Library Telkom University still use a traditional system and Operated on operational hour.

With the emergence of problems faced by Telkom University students as an authors want to design 24 Hours Self Service Book Return to facilitate students to return the book loan on time, flexible in the time of return, and minimal labour required. With this service the student can return the loan book anytime and without worry about the compensation to return the book if it is late. Therefore it is a must to make a design of 24 hours Self Book Return Service.Where in the design of 24 hours Self Service Book Return Box there are several devices in it such as RFID reader, Arduino Uno, Database localHost, and PC Desktop.

Keywords : *Library, RFID* (*Radio Frequency Indentification) reader, Arduino Uno, Database Localhost, PC Desktop.*