

ABSTRACT

Book classification system in libraries has different methods. Due to that issue, library visitors do not understand well the classification system is done in the library so that visitors can not easily restore books that have been read. Some libraries have implemented a barcode system for book returns and book lending, but this technology has not provided a system for returning books for library visitors. In this study we created a system that allows visitors to return the book to the proper shelf by using RFID (Radio Frequency Identification). Visitors who want to return a book to its shelf only need to scan a book that has been embedded by RFID tags to an RFID scanner. After the book is scanned the controller will search the data related to the RFID tag into the database and when the data is received then the controller will send data such as the name and location of the bookshelf to AGV so that AGV will return the book to the proper shelf.

Keywords - RFID (Radio Frequency Identification), RFID Tag, RFID Scanner, database.