

ABSTRACT

Design and Development of an ISBN Barcode-Based Library Information System with Google Books API for the Taman Baca Masyarakat (TBM) in the Taman Mangu Indah Complex

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Community Reading Library (TBM) is one of the South Tangerang government programs to increase public participation in reading. The Mangu Indah Complex has had a TBM facility since 2022, managed by the residents of RT 01 in the complex. The researcher conducted observation and interviews with the TBM administrators to find out the business processes and problems experienced by the TBM administrators. The lack of a system for recording and monitoring the condition of books and the reliance on third-party applications to disseminate information about the latest books are challenges without an information system. To facilitate the book recording process, the researcher utilizes Information and Communication Technology (ICT) to develop a library information system with an HTML Barcode Reader feature. The barcode reader is used to read the ISBN on the back of the book, the ISBN code will then pull data from the Google Books API in the form of JSON book data such as title, author, publisher, book cover, etc. Book data will be displayed on the book catalog page where visitors can become members to borrow and return books. The CodeIgniter framework based on MVC (Model, View, Controller) is also used as a framework to help researchers develop the library system.

Keywords: book, library, barcode, API, MVC, information system.

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