



BOOK REPUBLIC

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INTRODUCTION

Books in essence, is an educational commodity and also a collector's item for the enthusiasts. Various efforts to provide free access is made possible by organized drives, pop out libraries and fairs but it is limited just to the people who were present in the event gathering.

An online community can help address this problem since any individual can collectively contribute and participate in the program. Book Barter Philippines, a Facebook group, had reach fourteen thousand members since its creation in June 2020. Book bartering is in demand mainly because of its cost-effectiveness and high sustainability.

Dedicated online hub for booklovers is not yet available in the country. When virtual bookshelves are connected to one another, knowledge resources will be more accessible, community book sharing will be encouraged and people will be motivated to read resulting to a collective increase in literacy.

OBJECTIVE

To build an online community for book enthusiasts where users can swap and borrow books and other reading materials.

METHODOLOGY

Development Tools

The system used Codeigniter 1.8 as its framework, MySQL , PHP 7.1 , Apache Web Server 2.4.7

System Modules

- Creating and Managing Users Account
- Viewing, Adding and Managing Books
- Borrowing of Book
- Swapping of Book
- Sending and Managing Messages
- Viewing and Managing Activity Logs
- User Login and Logout

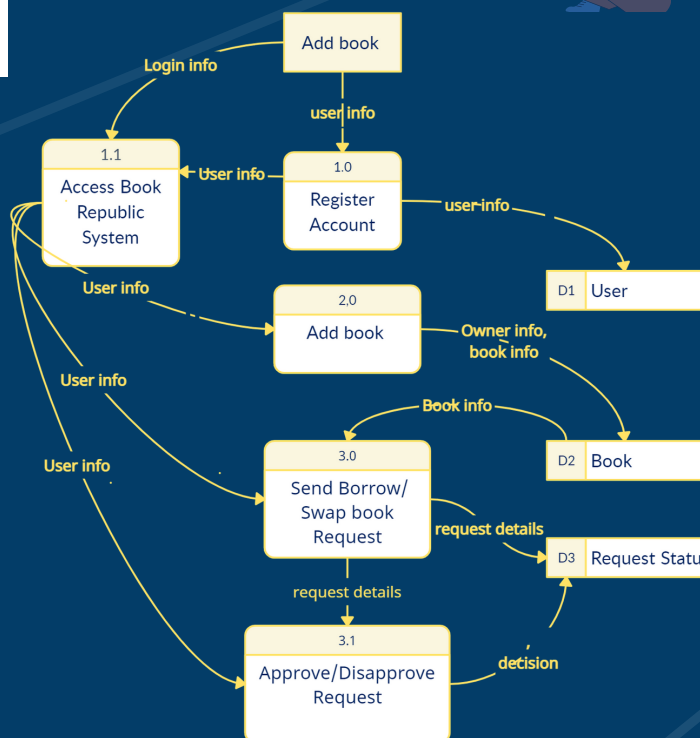


Figure 1. Data Flow Diagram

Testing and Assessment of Book Republic

System usability and user experience were examined from 24 participants, each of which is either a student or a professional. They were specifically tasked to perform the following major system features- add a book, borrow a book, swap a book, add a friend and send a message.

RESULTS AND DISCUSSION

The Book Republic obtained a score of 73.85 in the System Usability Scale. The SUS rating is 73.41% for just students and on the otherhand the score obtained from the professionals is 74.23%. Comparing the ratings obtained by separating the two demographic profiles, it can be inferred that the slight difference suggests that profiles do not have significant effect on how users rated the system.

CONCLUSION AND FUTURE WORK

This study has provided a basic platform where users can freely swap, borrow and discover books. For further improvement of the system, this study recommends to add new system features such as smart recommendation tool that suggests titles based on preferred genre or author of the user.

