

# Optimistic Solution for Book Store

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**Abstract— In this day and age, mobile phones and applications play a role in every person's life every day. Book shopping App allows users to check for various books and purchase/rent them. The project consists of a list of books displayed in various models and designs. The online books shopping project brings an entire Books Store online and makes it easy for both buyer and seller to make deals on books.**

## 1. Introduction

The traditional book ordering system is a manual and time-consuming process where the customer must visit a bookstore to search and purchase the books. In this tight schedule, problems arise in finding specific books due to the inadequate distribution of books through the bookshop. The buyer may or may not find the book they were looking for.

With the rapid development of internet technologies, the number of online books selling websites has increased which enhanced the competition among them. This is not a website but a mobile application which helps to buy the books online or rent them from nearby areas on a per - day basis. It will be one of the strongest tools to increase profit and retain buyers. Moreover, the mobile application also lets users know if the book is in stock or not. It also guides users to book review so that the user can read the reviews before buying or renting the book.

Buying books over the web at an online book shop is an

interesting and informative buying experience. It allows you to buy books suited to your interests and that too while relaxing at home at any time of the day or night. Online book browsing and buying are indeed transforming the way readers and an author come together and are already creating a huge effect on the publishing and book retail industries.

Physical brick-and-mortar stores are restricted by space limitations and budgets, but an online bookstore does not have these restrictions and offer a huge variety of authors and titles, not only the popular ones but also the lesser-known ones. You can find books in any genre at an online bookstore, be it fantasy, science fiction, cookery books, or novellas. At a physical book store, finding an uncommon book may be difficult, or ordering for a rare tome could take weeks for it to arrive, while the same book can easily be ordered online and delivered to your doorstep within a couple of days.

### 1.1 Objective

The aim of this project is to develop a mobile application with features of a bookstore and being able to rent out books to people in need. Connect the people who have books lying around their house that they do not need any more with the people who need these books. The Book Store application has been developed to override the problems prevailing in the practicing manual systems. This application is supported to eliminate and, in some cases, reduce the hardships faced by this existing system.

## 1.2 Feasibility

The mobile application is highly user friendly and it is much easier to interact with the user. Users do not need special training to operate the application. Therefore, the system will provide maximum easiness. The application is technically feasible as it can be developed easily with the help of available technology. The application requires Java as front-end and MySQL as back-end. Economic analysis is the most frequently used technique for evaluating the effectiveness of the system or application. The tangible benefits proposed that the manual work and burden is reduced maximum as possible, resulting in the reduction in manpower requirement and cost incurred on manpower as well. The application provides many benefits that can't be measured in terms of money for e.g., user friendliness, more efficient response, maintenance of database, etc. Fig 1 shows the conceptual framework of the application, here users can be sellers or customers selling, lending, renting and buying books.

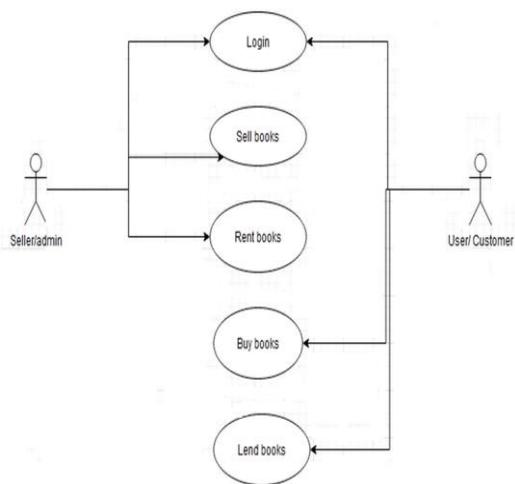


Fig. 1. Use Case Diagram for BookCave

## 2. Literature Survey

The growth of the library has become an intelligent service

organization which supplies knowledge services. Whether it is a university library or a public library, it is devoted to building a sound resource construction and sharing system. Many current book management systems are central server models, including the establishment and maintenance of back-end databases and the development of front-end applications. Organizations such as libraries generally set up usual or regular working modules, such as interviews, cataloging, circulation, journals, reference, and public consultation, according to the book management process.<sup>[4]</sup>

The speedy growth of the Internet provides a quality environment for the implementation of electronic commerce. B2C e-commerce is growing rapidly which greatly facilitates and supports people's shopping. At the same time, people's consumption behavior and concept have also changed considerably, more and more consumers pursue personalized consumption.<sup>[5]</sup>

The long-established library process is developing to a current, modern and intelligent library, which is the revolution of library management systems. In this process, we need advanced technology to grow and optimize the management of many traditional libraries through the multi-angle and multi-angle of multi equipment and multi-object Internet. Many of these solutions can provide better services for library managers and users. Readers improve the credibility of the library, change the way of collection, borrowing, and reading, improve the security, accuracy, confidence, and expansion of the library, and the necessity of replacing the library.<sup>[9]</sup>

Comparing readers' preferences between reading a printed book and electronic media, it seems that e-book Growth is slowing, but still substantial, and the majority of book readers believe that e-books will become more popular than the printed books in the future.<sup>[6]</sup> We need to popularize reading

books in the traditional way. Reading long hours on a screen harm the eyes. Printed and hard copy books help to connect the reader to the book more easily.

### 3. Conclusion and Future Scope

The project has been developed successfully and the performance of the application has been found good. The application provides platform to view the books online on an app and purchase or rent them. The application is efficient in maintaining customer details, reduces the workload of the shopkeeper to know the quantity of books available. The application will be a great way for people to rent the books lying around their houses and earn money from renting it.

New features could be added to this project for making this project more productive, reusable and flexible which include online payment service and hybrid recommendation.

### 4. References

[1] R. Gil Ortego1, I. Martínez Sánchez, Relevant parameters for the classification of reading books depending on the degree of textual readability in Primary and Compulsory Secondary Education (CSE) students, IEEE Access (Volume: 7), 2019.

[2] Deepshikha Bhargava, Pratikshya Mishra, Anjali Mishra, Designing an Expert System for Online Shopping Cart Management, 2019 Amity International Conference on Artificial Intelligence (AICAI), 2019.

[3] Muhammad Badri, Adoption of Online Shopping Apps Innovation on Digital Natives Generation, 2020 International Conference on ICT for Smart Society (ICISS), 2020.

[4] Liu Xidong, A smart book management system based on Blockchain platform, 2019 International Conference on Communications, Information System and Computer Engineering (CISCE), 2019.

[5] Qinglie Wu, Jing Ma, Zhong Wu, Consumer-Driven E-commerce: A Study on C2B applications, 2020 International Conference on E-Commerce and Internet Technology (ECIT), 2020.

[6] Zakaria Issa Saleh, Ahmad Shaher Mashhour, The Impact of E-Books on the Printed Books: E-Books Popularity, Growth, and Future, 2015 Fifth International Conference on e-Learning, 2015.

[7] Xue Linyan, Song Lijie, Design, and Implementation of Online Bookstore Based on ASP. NET and Data Mining Technology, 2010 International Conference on Computer Application and System Modeling (ICCASM2010), 2010.

[8] Rajesh Kannan Megalingam, Souraj Vishnu, Swathi Sekhar, Vishnu Sasikumar, Sreekumar S and Thejas R Nair, Design and Implementation of an Android Application for Smart Shopping, International Conference on Communication and Signal Processing, 2019.

[9] Wang Zhigang, Research on The Framework of Library Management System Based on Internet of Things, 2021 13th International Conference on Measuring Technology and Mechanics Automation (ICMTMA), 2021.

[10] Nida Khairunnisa Kusumawardhani, Muhammad Nasrun, Casi Setianings, Web Recommended System Library Book Selection Using Item Based Collaborative Filtering Method, 2019 IEEE International Conference on Engineering, Technology, and Education (TALE), 2019.

[11] Charles Paul, Sherin Sabu, Rachel Angelin, Anand Pardeshi, Smart Shopping Application using IoT and Recommendation System, 2021 7th International Conference on Advanced Computing & Communication Systems (ICACCS), 2021.

[12] Ikrar Harvy, Gilbert Alessandro Matitaputty, Abba

Suganda Girsang, Steve Michael, Sani Muhamad Isa, The Use of Book Store GIS Data Warehouse in Implementing the Analysis of Most Book Selling, 2019 7th International Conference on Cyber and IT Service Management (CITSM), 2019.

[13] Sarun Juntui, Paveen Khoenkaw, Automatic non-personalized book recommender algorithm for bookstore shelf management, 2018 International Conference on Digital Arts, Media and Technology (ICDAMT), 2018.

[14] D. Jerline Sheebha Anni, Nesrudheen V P, Nihal Abdulla, Noor Nihara, Shahana Sherin Amiyan Kurikkal, An Android App: Virtual Queuing System for Public Distribution System, 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC), 2021.

[15] Jiajie Zeng, Xiaohai Dai, Jiang Xiao, Wenhui Yang, Weifeng Hao, Hai Jin, BookChain: Library-Free Book Sharing Based on Blockchain Technology, 2019 15th International Conference on Mobile Ad-Hoc and Sensor Networks (MSN), 2019.

[16] Rizkiyana Prima Putra, Dade Nurjanah, Rita Rismala, Top-N Recommendation for Shared Account on Book Recommender System, 2018 International Conference on Information Technology Systems and Innovation (ICITSI), 2018.

[17] Momo Kyozuka, Keishi Tajima, Ranking Methods for Query Relaxation in Book Search, 2018 IEEE/WIC/ACM International Conference on Web Intelligence (WI), 2018.