

Implementation of an Online Bookstore System Based on Web and App for Uzbekistan

Abdurauf Isokjonov¹, Abdulazizkhon Akhmedov², Abubakr Xabebulloev³, Young Sil Lee⁴
^{1,2,3}Student, Dept. of Computer Engineering, International College, Dongseo University,
47011 South Korea

^{*4}Professor, Dept. of Computer Engineering, Dongseo University, 47011 South Korea
abdurauf.isokjonov@gmail.com¹, abdulazizahmedov97@gmail.com²,
abubakra75917591@gmail.com³, lys0113@dongseo.ac.kr^{*4}
Corresponding author*: Young Sil Lee

Abstract There are very few online bookstores in Uzbekistan. Although the increasing usage of mobile phones and mobile devices, people still go to the bookstore and search for book and call to see whether they have desire book. In this paper, we implement an online bookstore system for web and mobile application both in order to provide convenience. Our website implemented by using HTML, CSS and JavaScript and linked the database using MySQL and PHP. Also, mobile application developed for Android have the same functionality as website that allows users to find and buy books easily.

Keywords: Online bookstore system, mobile bookstore application, online bookstore in Uzbekistan, MySQL, Android.

1. Introduction

Currently there is no such platforms in Uzbekistan that offer users to buy books. When the people want to buy books, they usually have to go to bookstores and search for book but sometimes you cannot find a book and you have to go to another bookstore. So, to provide convenience, we implement the online bookstore system that consist of two part- website and mobile application in android. Our website contains information about various types of books, such as national literature, world classics etc. And mobile application is also same with website. To be more accurate, mobile application stores information about books and users can search for books, order etc. Users will be able to get all necessary information about the books and easily buy it. To maximise the comfort for users' mobile application is provided too.

2. Online Bookstore System based on Web

Website is created using back-end and front-end tools. To be more accurate, MySQL is chosen as a database tool to store and manage data in our website since it's widely used all around the world and because it provides great efficiency as compared to NoSQL, Microsoft SQL server, PostgreSQL. The figure shows the diagram of database. Specifically, we have 7 tables in our database, such as book, book_category, category, order, publisher, author, customer and author. Additionally, the tables contain information about book details, author details, publisher details, order details, customer details, and book category details.

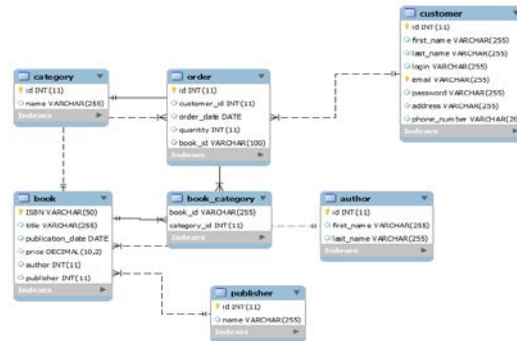


Figure 1. Diagram for Database

Additionally, we used HTML, CSS and JavaScript to build UI (User Interface) of our website in a more modern style to make it attractive. The figure 2 highlights the main page of our website in which it contains carousel in the center and right sidebar with some ads. Additionally, we placed navigation to the left sidebar of main page. After that, it has search function in the top part of website. Last but not least, website has Login and Cart buttons which leads users to both Login page and Cart page respectively. Finally, main page displays info

about some popular and bestseller books in the bottom of page.

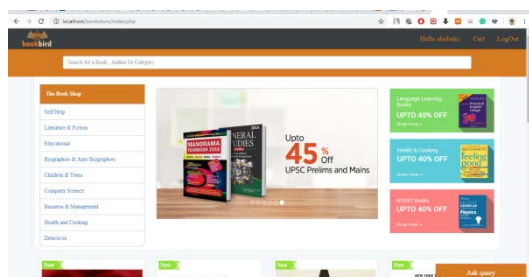


Figure 2. Main page of web site

Figure 3 displays information about “Business and Management” category page of our website. In this page, website contains information about business-management books with their image, price and discount. In the top part, users can search for books or login to their accounts. Plus, they can sort books as well. When a user clicks any book, website redirects the user to product page and it will display information about the chosen book only, such as book description, author name, publisher name, published year and price etc.



Figure 3. Searching on Online Bookstore Website

3. Online Bookstore System based on App

In the figure 4 show the android application for this project which made in Android studio using Java programming language.

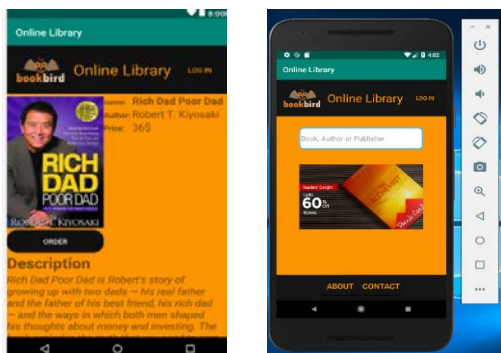


Figure 4. Mobile Application of Online Bookstore System

Our design is as close to website as possible and search engine helps user to find desired book using book name, author or publishers. MySQL and PHP were used to organize our data in database and connect it with the application.

4. Conclusion

Online bookstore system tackles many problems with booking and finding books. To be more specific, users don't have to go to bookstore by themselves, they can simply order books by using our website or android application without spending time, money and any effort. Additionally, our Online Bookstore System has delivery and booking service which means users don't need to spend time to look for books from place to place wasting their precious time. They can simply receive books in their home, office or wherever they prefer. Nowadays, everything, new technology, new services, new websites, is created to improve efficiency, performance and reduce time consuming. Our online bookstore system is one of such above-mentioned life-enhancing, problem-solving, performance-improving service designed for the people of Uzbekistan. It will serve to handle time-consuming purchase with books, helping people to productively spend their time on other tasks.

Acknowledgments

Following are results of a study on the "Leades INdustry-university Cooperation" Project, supported by the Ministry of Education.

References

- [1] R. Nixon. (2018). *Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 (Learning Php, Mysql, Javascript, Css & Html5) 5th Edition*. O'Reilly Media, Inc. ISBN: 9781491978917
- [2] J. Duckett. (2014). *JavaScript and jQuery: Interactive Front-End Web Development 1st Edition*. John Wiley & Sons, Inc. ISBN: 9781118871652
- [3] A. Sweigart. (2015). *Automate the Boring Stuff with Python: Practical Programming for Total Beginners 1st Edition*. No Starch Press, Inc. ISBN: 9781593275990.