Book Basket Project: Review

Shweta Garoo

Department of Computer Science & Engineering
Chandigarh University
Mohali Punjab 140301, India

shwetagaroo19@gmail.com

Sanskar, Mohit Kasat, Abhijeet Ranjan and Karan Mishra

Department of Computer Science & Engineering
Chandigarh University
Mohali Punjab 140301, India

sanskark441@gmail.com

mohitkasat83@gmail.com

abhijeetranjan839@gmail.com

karanmishra1742003@gmail.com

Abstract - The rapid evolution of digital technology has transformed the way information is accessed and disseminated. E-libraries have emerged as pivotal platforms in this paradigm shift, revolutionizing the conventional library experience. This report presents the development and implementation of a state- of the-art Book Basket System website designed to facilitate seamless access to a diverse array of digital resources.

The primary objective of this project was to create an intuitive and user-friendly platform that caters to the evolving needs of modern learners, researchers, and enthusiasts. The website incorporates a dynamic user interface, leveraging cutting-edge technologies to ensure efficient navigation and retrieval of information. A robust search engine, coupled with advanced filtering options, empowers users to locate specific resources swiftly.

The Book Basket System encompasses an extensive collection of digital materials, including e-books, academic papers, articles, multimedia content, and archival resources. These resources cover a wide spectrum of disciplines, ensuring relevance for a diverse user base. Additionally, the platform incorporates features such as user-generated content, enabling community contributions and fostering collaborative learning environments.

Keyword: - LMS, Design of LMS, Objective of LMS and Need for proposed System

I. INTRODUCTION

1.1 Overview

The utilization of computer technology has become increasingly common in many spheres of life due to its swift advancement. The advancement of contemporary information technology has resulted in the library's advancement towards automation, network, and digitalization. As a result of the growing library book collection and the growing

The primary issue of the previous manual management methods—which are evidently unable to keep up with the demands of the modern information society—is their extremely low handling efficiency when it comes to the process of borrowing and returning books. The business of libraries has been severely damaged, which has made people work harder to establish new information management systems and control the flow of books in order to increase productivity, lessen the workload for employees and the chance of error, while also giving readers more time to select and read books. A typical information management system is a book management system. Our pressing issue is to figure out how to better handle books by utilizing current scientific and technical advancements. The fundamental criteria of a contemporary book basket system were compiled in this article, along with a detailed discussion of the system development process that included demand analysis, system design, database design, code tests, and other related topics. In order to accomplish the intended design goals, it essentially satisfies the demands of small library management on a daily basis. The "Book Basket System" has been developing to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, This system is made to meet the needs of the business, which is to run its activities efficiently. A system called Book Basket System is used to describe small- to medium-sized library systems. The librarian uses it to oversee the library and keep track of different transactions such as the loaning out and returning of books, addition of new volumes, enrollment of new pupils, etc. This system, which would maintain track of the students utilizing the library and a complete description of the books a library holds, also includes books and student maintenance modules. The Book Basket System additionally includes report modules. If the person holds the role of admin, they can produce many types of reports like lists of students registered, list of books, issue and return reports. All these modules can help the librarian to manage the library.
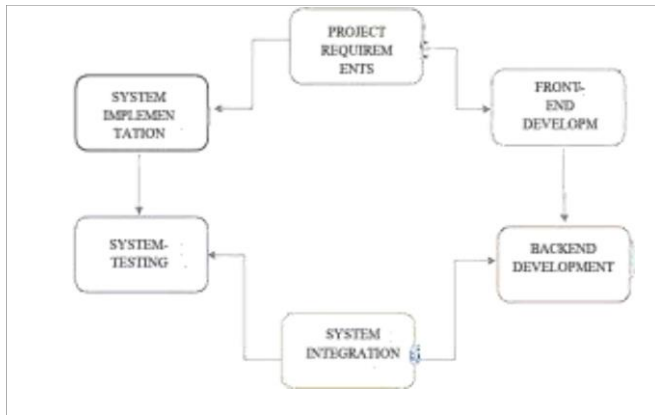
Implementation plan

1.2 Background of Study

A system called Book Basket System is used to describe small- to medium-sized library systems. Using an electronic system, the librarian uses it to oversee the library and keep track of different transactions such as the loaning out and returning of books, the addition of new volumes, the enrollment of new students, and so on. This system, will keep a record of the students who use the library and a detailed inventory of the books it has, including books and student maintenance modules. This computerized system will prevent the loss of books or member records, which usually happens when a non-computerized method is used.

The Book Basket System additionally includes report modules. If the user position is Admin, the user can generate different kinds of reports like lists of students registered, list of books, issue and return reports. All these modules can help librarians in comparison to non-computerized library systems, to operate the library more conveniently and effectively. position is Admin, and the user can create a variety of reports, including listings of books, registered students, issues, and returns. When compared to non-computerized library systems, all of these modules can assist librarians in managing the library more conveniently and effectively.

1.3 Objectives

The Book Basket System aims to manage every aspect of a library's operations. The software maintains track of all the data pertaining to the books, including every detail. The system has a database where all of the data will be kept secure. It will be much easier to find records rather than opening such huge files and finding a single record from them. The data will be much secure from any unauthorized access. It will be made secure by using passwords and by taking other security measures.

The primary goal of the application is to computerize the current manual approach of keeping track of book issues, student returns, stock management, catalog searches, and book searches. So, the book issue, return, searching will be faster.

Using HTML, CSS, and Java, the goal of Book Basket Project is to create a web- based application that allows event planners, hotel managers, and other hospitality professionals

to efficiently manage guests, reservations, and similar tasks. The system should provide a user- friendly interface to manage user information, check-in and check-out, and maintain accurate records.

i. Create an intuitive user interface: The interface should be simple to use and navigate, with instructions that are clear and succinct, and an attractive design that encourages guest engagement.

ii. Provide guest registration and check-in functionality: The system should allow users to register new guests, be notified about events, and check-in & check-out upon arrival & departure.

iii. Integration with other systems: The system should integrate seamlessly with hospitality- related software such as property management systems and customer relationship management tools.

iv. Ensure data security and privacy: The system must prioritize data security and privacy, including secure access, encryption of sensitive data, and compliance with relevant regulations and standards.

1.3 Features

The graphical user interface is intended to provide the clients and users with a comfortable and intuitive environment. It plays a vital role in book basket system by providing user friendly way for library patrons.

I. Efficient data entry: With a GUI, staff can easily enter user data and use forms and input fields. This will save time and reduce errors compared to manual data entry.

II. Easy navigation: A well-designed GUI can help staff easily navigate through the system's various features and functions. It ensures that users will fastly and efficiently find the books and resources they need.

III. Visual representation of data: A GUI can display user data and books information in an organized and visually appealing way, such as with tables or charts. This can help staff quickly identify patterns or trends in the data.

IV. Customization: A GUI can allow staff to customize the system to fit their specific needs, such as by choosing which data fields to display or setting up automatic notifications for certain events.

V. Improved communication: A GUI can allow staff to communicate with users more efficiently, such as by sending automated emails to users about due dates, reserved books availability, and library events

1.4 Summary

A Book Basket Project is a software solution designed to facilitate the guest check-in process and improve the guest experience. Below is a brief of the literature review on Book basket system:

I.   Benefits: The benefits of a Book Basket Project include increased efficiency, improved security, improved guest experience and better data management.

II.   Features: Book Basket Project typically include features such as online pre- registration, mobile check-in, ID card check-in, room reservation, key card issuance, and real-time communication with guests.

III. Implementation: Implementing a Book Basket Project requires careful planning, testing and training to ensure a smooth transition from a manual to an automated system.

IV.   Challenges: Challenges in implementing a Book Basket Project include issues related to cost, compatibility with existing systems, resistance to change, and data privacy.

V.   Future Trends: The future of Book Basket Project will include more advanced technologies such as personalized guest experiences through biometric identification, facial recognition, and data analytics.

Overall, the literature shows that guest management systems can provide significant benefits to hospitality and event businesses, but careful planning and implementation are necessary for success.

Security and privacy have been paramount considerations in the development process. Stringent measures have been implemented to safeguard user data and protect against potential threats. Access control mechanisms, encryption protocols, and regular security audits have been employed to ensure a safe browsing experience for all users.

Moreover, the website is designed to be adaptive and responsive, ensuring seamless accessibility across various devices and screen sizes. This multi-platform compatibility ensures that users can engage with the platform anytime, anywhere.

In conclusion, this report provides a comprehensive overview of the development and implementation of an advanced Book Basket System website. The platform represents a significant milestone in modernizing information access and dissemination. Continued efforts to refine and expand the

website will be undertaken to meet the evolving needs of the user community, ultimately contributing to a more inclusive and accessible knowledge-sharing ecosystem.
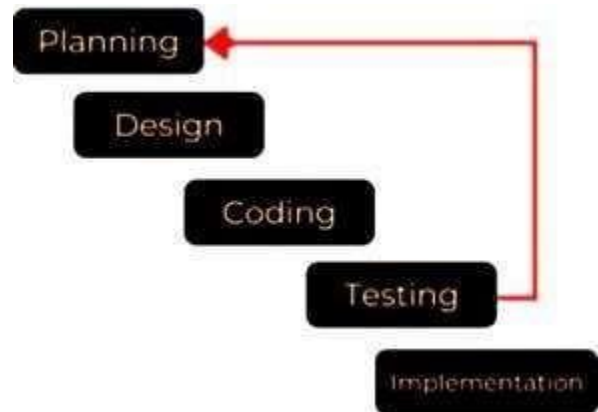
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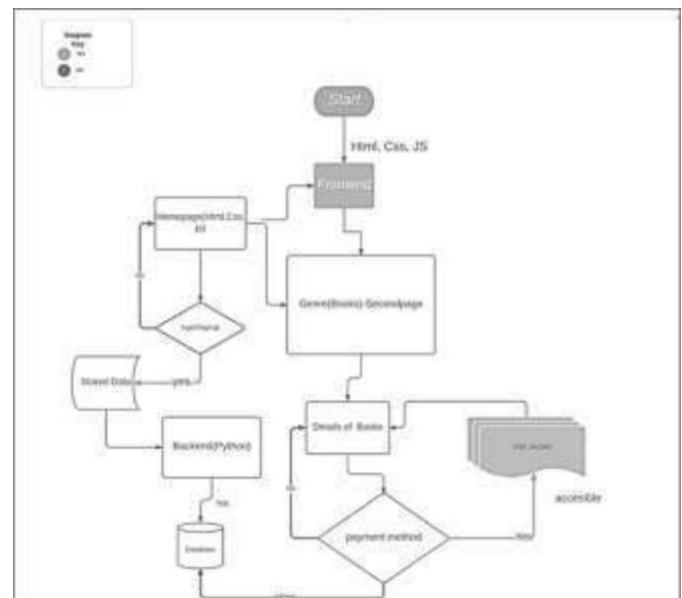
Working of System

LITERATURE REVIEW

The article's discussion of user experience research with digital libraries occurs in this part. Gaining insight into users' opinions, attitudes, satisfaction levels, and service experiences with digital libraries could be useful in improving users' feelings about using them.

According to a 2016 study by Ekere et al, "Users are highly aware and satisfied with digital library facilities, resources, and services.". Users are very aware and satisfied with the digital libraries resources like WWW and WIFI, as well as search engines, when compared to online databases/portals/online abstracts, video CDs/CD-ROMs/online indexes and abstracts. In 2016, Asad Khan studied the factors that affect the adoption of digital library among research students and found that interface characteristics influence the cognitive response which predicts the intention of the student to use the digital library. Navigation, individual differences, and system characteristics also had an

impact on how easy it was to use. Utilization of the digital library is directly influenced by the system characteristics and the quality of the system. Finally, usefulness has the greatest impact on the intention of using the digital library. In 2015, Xianjin et Al (2015) examined the flow experience of users with respect to the mobile digital libraries and the web digital libraries in terms of flow experience. According to the study, more users experienced a flow experience when using the web digital libraries compared to mobile libraries.

In their 2014 study, Yuangen and Zeng examined customer churn rate, which is the percentage of users that stop using digital library services. The study discovered that, in the first three months following a customer's registration on the library's website, there is a significant risk of customer attrition at the specified library.

The implications of users' perceptions of the usability, utility, and simplicity of use of print and digital resources were examined by Xianjin et al (2014). User attributes like gender, age, experience, and field have a big impact on how useful, easy to use, and useful users are seen to be.

Yalan and colleagues (2014) investigated the digital library's overall service quality as well as the system's information quality. Users' impressions of virtual communities and digital platforms are compressed libraries have been done understand the actual nature of e quality perceived by the users. Based on the user's perception study found that Research has been done on digital libraries to determine the true nature of the quality that consumers perceive.

Ahmed (2013) investigated how faculty members used digital information resources and how satisfied they were with the resources offered by the university. It is discovered that faculty members are not happy with the university's current e-resources. The primary cause of discontent is service-related problems, such as restricted access to previous issues and limited title. They noted a lack of titles, restricted access to previous issues, trouble locating material, incapacity to access from home, restricted computer access, and sluggish download speeds.

As a result, we finished our assignment without any issues. For this project, we conducted a variety of research studies. The front end of the system is developed with HTML and C#, while the back end database is SQL Server.

Chang (2013) used the task technology fit model in conjunction with the unified theory of acceptance and usage of technology (UTAUT) to investigate users' behavior intentions toward using mobile library applications. The behavioral intention towards mobile library applications is influenced by various factors such as effort expectancy, performance expectancy, social influence, and facilitating situations. The task technology model modifies the intention of conduct.

In light of the fact that Ming-der et al. (2012) research scholars frequently utilize the digital resources available in libraries, this study examined graduate students' search habits, usage patterns, and attitudes toward digital resources. According to a study, students are using digital resources to write their theses, and when it comes to their research, science and technology students believe it to be more important than resources from other fields. Less students are gathering up-to-date information by using metasearch and alter services.

as major constraint. However, the primary cause of discontent is inadequate infrastructure and restricted access to these resources.

According to research by Lorraine Paterson and Boon Low (2011), pupils are more likely to adopt mobile library services. According to Anna (2008), the perception of users is influenced by the institute and the services they provide. Additionally, consumers view digital libraries favorably, but the majority of them are also ignorant of the range of services that the library provides. It has also been discovered that using a digital library requires a good interface.

5. Conclusion

It's time for Indian libraries to transition from their traditional to digital models. In order to provide future scope for further research in this field, this study emphasizes the main areas in which scholars are working with respect to Digital Libraries and user experience. The bulk of the studies that make up this paper have to do with user adoption, perception, attitude, and satisfaction with digital library services. Researchers have also looked into the Flow Experience and E-quality aspects of the Digital Library. The concept of mobile libraries is gaining traction among users, as they offer the ability to browse content using mobile applications.

It is safe to say that the product is a very effective GUI-based component after carefully analyzing the advantages and disadvantages of the component. This program satisfies all user needs and functions as intended. This part is simple to hook into a lot of other systems. We can enter a new book with a certain Identity, price, number of pages, book name, and publisher in this program. Additionally, we include a student's name, Identity, batch, and semester to assist the administrator in the event that a student lends and returns books. An admin only needs to click one button on our program to view the specifics of returning or releasing a book with a date.

It has CRUD functions, which are frequently utilized in libraries. This approach makes work easier for users and librarians in local libraries and colleges. This was created by talking with system users and considering every demand specified in the project.

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The study presents the development of a Book Basket Project uby the help of HTML, CSS, and JavaScript. The system was designed to manage guest registration, check-in, and check-out processes. The authors concluded that the system was effective in improving guest experience and reducing waiting times.

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The author wrote the thesis on Book Basket Project which adopted use case diagram which is widely applied in all kinds of system development. Use case diagram illustrates the relationship between user & system.
  I.   System overall use case diagram
  II. Guest services subsystem use case diagram.
  III. Backend Management subsystem use case diagram.

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The study provided information on the planning and execution of visiting or developed using C#, HTML & MySQL database. The structural design of this system used Microsoft Visio IDE. The VMS developed using trend information technology that offers a function to obtain visitor details through the use of identity verification & save it in a database which is centralized.

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Rachana, Shaik Chandini, Sandhu Srilatha, G.Sabitha & Seema Nazneen published in International Research Journal of Modernization in Engineering Technology and Science in March 2020.
The study exhibited the design and implementation of Book Basket Project developed using VB.NET and WPF (Window Presentation Foundation) as the rich GUI for front-end & SQL Server as the secured back-end database. Visual Basic is implemented to handle images, menus & GUI components. ASP.NET framework is used to eliminate the system compatibility issues.

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The author developed a system, "Book Basket Project", aweb-based system using C# and ASP.NET. Waterfall methodology is followed as it is a procuring project.