BOOKLAND – AN ANDROID APPLICATION FOR RENTAL BOOKS

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Abstract: BOOKLAND - AN ANDROID APPLICATION FOR RENTAL BOOKS is great for simple reservation services, rental service or any other service. This rental programming permits autonomous organizations to execute an online reservation framework through their application without huge interest in a huge, complex custom fitted framework. We can have time slots availability and booking calendar in this system. Customers are able to check available rental unit. It was implemented using Android studio and MS SQL. In this system we can manage the details of book, stock, customer, order and payment. It manages all information about book, bill, payment and order. It allows users to search and rent a book based on title, author and subject. This system is really very helpful for the reader as they can rent a book instead of going out, buying and wasting money.

Keywords: Computerized Equipments, Data Set, Fitted Framework, GPS - Global Positioning System, ISBN - International Standard Book Number Manipulation, Reservation Services.

1. INTRODUCTION

The project "BOOKLAND - AN ANDROID APPLICATION FOR RENTAL BOOKS" is developed in android java application. It focuses on basic operations like adding new members, new books, updating new information, searching books and members (authors) and facility to borrow and return books.

Users like students, faculty members, and book readers etc., face problems in manual system in finding the details of books related to issuing and returning of the books so that they need a reminder and up gradation from manual to computerized system.

The most important module in the project is login module. In this module, each user has their unique username and password. Admin has the highest access priority that enables the admin to perform all the functionalities that exist in the android application. Readers have the lowest access priority that enables to view book details that is available.

This application is easy to use, and expert user because of the attractive page design and proper validation for each field. The application reduced as much as possible to avoid errors while entering the data. It also provides error message while entering wrong data. No formal knowledge is required for the user to use this technique. User can get to understand different sorts of books that they were unaware of by just searching within the system using keywords. Thus by this all it proves it is user friendly online book rental system, which lead to error free, secure, reliable and fast management system.

2. OBJECTIVES

The main objectives are:
- Develop a database that stores reader details, book details, payment details with reliable search facility.
- Admin and reader should have separate login ids or usernames.
- Attractive and user friendly interface enable the readers in ease of use.

- To provide the information of all books like Early reader books , Wordless books , Biographies, Jokes and riddle books, Poetry books, Books in a series, Reference books etc.,
- It saves time and effort in searching for books.
- It saves money up to 80% of the book price.

3. RELATED WORKS

The existing system was suffering from a serious of drawbacks. Since whole of the system was to be kept up with hands the way toward continuing, keeping up and recovering the data was exceptionally dull and long. The records were never used to be in an efficient manner. If any information was to be found it was required to experience the various registers, archives there could exist nothing like report generation. There would always be unnecessary utilization of time while entering records and recovering record. It was extremely hard to discover mistakes while entering records. When the records were entered it was hard to refresh these records. Traditional book purchasing procedure is not efficient for shopkeepers as they have to deal with the crowd. There is a threat of forgery if the customers are new to marketing. It might be a case that the amount will not be refunded if the customer purchases a wrong book. There is no proper way of getting the actual price of a book.

In [1] explains that these days numerous individuals are moving from one city then onto the next for instruction reason or for employments. This has brought about the making of a complex and multi-authoritative arrangement of the board that incorporates nourishment, autos, books, furniture and different adornments. Current situation presents you the framework for rentals or purchasing as a strenuous work. With the huge extension of Internet and web based business innovation, Internet stage is giving a ton of administrations and focal points for online organizations, particularly for web based shopping entrance. Web based shopping has extended in business all the more successfully and online administrations are teaming up with clients and different affiliations. This examination revealed the requirements and desires for present and potential clients of virtual commercial centers of the items on brief premise. This paper develops the estimation of four-dimensional models that are proper for estimating consumer loyalty of online rentals data stage's security. This paper likewise leads the factor and various relapse investigations to confirm the estimation model. There has been a long standing discussion of whether to purchase or lease, there are numerous applications in the present serious computerized condition. Existing assistance execution which gives different rental stages, beginning with Magic Bricks, Cardekho.com, Rent Mojo, OLX, Furlenco and this rundown is perpetual. These applications are area explicit like MagicBricks is worried about just leasing property, domain or ZoomCar is worried about leasing vehicles, OLX is worried about purchasing or selling the items or articles utilized consistently. Along these lines, we have included another measurement, and think of an application LeKeDe which will manage the whole range instead of a specific classification.

3. PROPOSED SYSTEM

The purpose of BOOKLAND - AN ANDROID APPLICATION FOR RENTAL BOOKS is to automate the existing manual system by the help of computerized equipments and fully fledged mobile application, fulfilling their requirements, so that their valuable data can be stored for a longer period with easy access and manipulation of the same. In the system we can manage the details of book, stock, customer, order and payment. It manages all information about book, bill, payment and order. The main objective of the project is to create an online book rental system that allows users to search and rent a book based on title, author and subject. The selected books are displayed in a tabular format and the user can order their book .This system is really very helpful for the reader as they can rent a book instead of going out, buying and wasting money.

Advantages:

The proposed system has the following advantages:
- User friendly interface.
- Error less.
- Ease of searching.
- Quick and secure transactions.
- Any reader can search the application for books by using the given specifications and book availability is regularly updated by the administrator.
- Hence, it helps in greatly reducing or even in avoiding the book unavailability problem regarding the searching criteria.
- This system is very helpful for the reader as they can rent a book instead of going out, searching, buying and wasting time and money.
- Online payment facility.
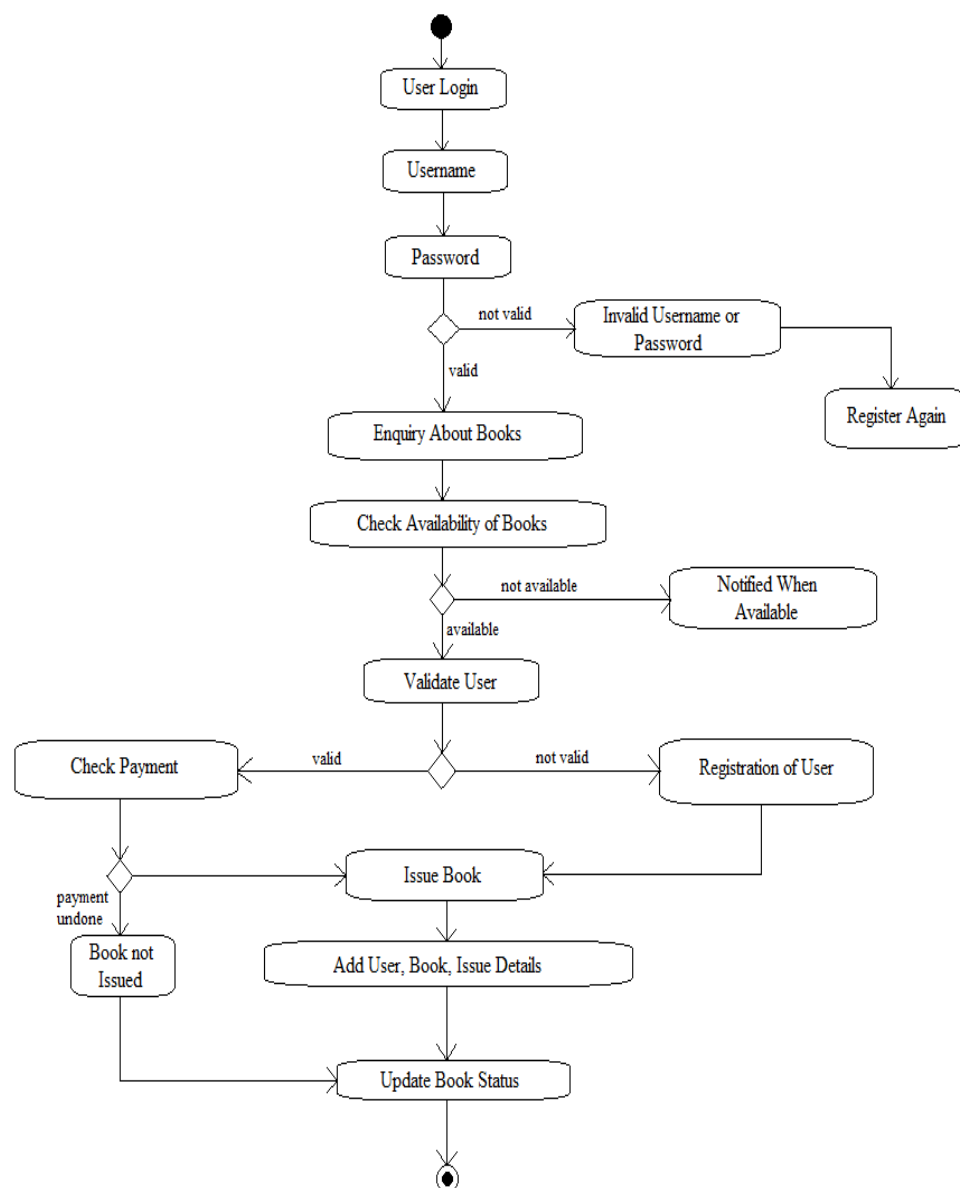- Ease the task of organization.

Fig.1.System Architecture

3.1 Login Module

- User can login to their account by using their username and password.
- New users can register themselves by clicking on the signup button.

3.2 Admin Module

- Admin can manage the details of the book, stock, customer, order and payment.

3.3 Stock Management Module

- In this module the details of the book and their stocks are maintained.
- Adding and deleting of books are done here.

3.4 Customer Module

- Customer can search for the books by using the book name or author name.

3.5 Payment Module

- The rent for the selected book will be calculated according to the number of days selected and payment can be done.

3.6 Feedback Module

- The user can give rating to a book based on his interest. User can rate it by giving a score of five, four, three, two and one. The final rating of a book will depend on all the individual user rating.

3.7 Data Tables

TABLE-1. Login Details

Column name	Type	Size
User name	Varchar	20
Password	Varchar	08

TABLE-2. Registration Details

Column name	Type	Size
Firstname	Varchar	20
Lastname	Varchar	20
Emailid	Varchar	60
Phoneno	Integer	10
Aadharno	Integer	12
Password	Varchar	08

TABLE-3. Book Details

Column name	Type	Size
BookName	Varchar	80
AuthorName	Varchar	80
Isbnno	Integer	13
Year	Integer	04

TABLE-4. Address Details

Column name	Type	Size
Name	Varchar	20
Doorno	Integer	10
Streetname	Varchar	20
City	Varchar	20
Pincode	Integer	06

4. EXPERIMENTAL RESULTS

The purpose of testing is to find errors. Testing is the process of discovering every possible fault or weakness in a work product. It provides a way to check the performances of components, assemblies, sub-assemblies, and a finished product. It is the process of utilizing software with the aim of ensuring that the software system meets its requirements, user expectations and does not fail in an inadmissible manner.

TABLE-5. Results

SI.No.	Test	Expected Result	Result
1	Login	The user should be able to access his account using the preset credentials	Successful
2	Sign-up	Users data to be successfully stored in the Database	Successful
3	Forgot-Password	A mail is sent to the registered email-id.	Successful
4	Upload Books	The user should be able to upload the pictures of the book, along with its specifications like ISBN number.	Successful
5	Remove Books	The product no longer exists in the Database.	Successful
6	Message passing	Communication is established between the buyer and seller, through email or phone or location sharing facility.	Successful

7	Logs	The products previously rented out or put on rent can be viewed along with their reviews.	Successful
8	Sign-out	Exit from the application	Successful

5. CONCLUSION

BOOKLAND - AN ANDROID APPLICATION FOR RENTAL BOOKS project has been successfully completed. The objective of the system is accomplished and the issues are settled. This project is created in a way that is easy to understand and needed support is given at various levels. This system is really very helpful for the reader as they can rent a book instead of going out, buying and wasting money. Reliability, responsiveness, tangibles and quality helps us to serve the user in a better manner. Hassle free renting can be provided.

5.1 Future Scope

It is accepted that practically all the system targets that have been arranged at the initiation of the software development have been met with and the execution procedure of the project is finished. A preliminary run of the system has been made and is giving acceptable outcomes, the strategies for handling is basic and standard. In future, the ideas can be applied and tried in real environments.

Following are the Improvements to the application:
- Providing access authorizations to utilize the application.
- Exclusive offers, cash back and lease free choices can be made.
- Try to Execute the GPS system in the Book Land System.
- Providing customized inbox to the users.

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