

Quick Books Availability

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Abstract— Quick Books Availability is an application that facilitates exchange of books in the student circle. It is a multifunctional platform wherein the students will be able to search and buy second hand books and sell their previous year books amongst themselves. Thus, the prime users of the system will be students and the college librarian will act as the admin of the system. The front end of the application has been developed using Microsoft Visual Studio 2008 and the back end support is provided using Microsoft SQL Server 2012. The .apk file of the application has been generated using the Eclipse IDE. Consequently, this application can be accessed from all the internet enabled devices. Hence, the objective of this application is to ease out the burden of students to look for second hand books in different stores and to give one stop solution to this problem.

Keywords- *Quick Books availability, ASP.NET, C#, SQL, Eclipse, Android*

I. INTRODUCTION

Usually for almost all the students, it is a task to get the appropriate information about the university prescribed study material. Especially for the fresher's, this whole idea of studying from different reference books and that too a different book for different topic is new. So the senior year students are the best source to acquire this information. But again communicating with them acts as a hindrance here. So to overcome this issue, Quick Books Availability acts as a one stop solution.

All that the students have to do is provide the Librarian-'The Admin of the Application' with his/her details. The admin will give them their login details. The students then after logging in can perform a number of functions such as share books, search a particular book or a user etc. The application encompasses an effective search engine wherein the system shows the similar word list as that of the one he types. Furthermore, the system provides its users with an atlas of book stores near college and a show case of previous year university papers.

Hence, the system provides an ideal solution to the problem of hunting the appropriate books that university recommends and at the same time sharing the previous year books which are not required anymore. Thus, the

communication barrier amongst students can also be eliminated successfully with the use of this application.

II. FUNCTIONS PERFORMED BY THE USERS

The prime users of the Quick Books Availability system will be the 'STUDENTS' and the 'LIBRARIAN'.

The tasks assigned to these users ensure that nowhere the security aspect of the system is harmed.

This system will satisfy the goal of centralized monitoring and will be highly reliable.

A. Librarian:

The librarian basically acts as the administrator of the system. The librarian can access this application using any internet enabled device. The librarian will login with their predetermined login id and password. On successful login he/she can perform following tasks:

- a) Librarian will be able to share the details of any books available with him/her.
- b) She/he can create accounts of all the students by noting down their necessary details and then grant them access to their accounts by providing their login details.

- c) He/She can also delete and update the student accounts and even help them with a new password if needed.

B. Student:

Once the students get their login details from the librarian, they will be logging into the system using the login id and a system generated password.

On successful login they can perform the following operations:

- a) Students may change the password once they log into their account.
- b) They can share the details of the books available with them.
- c) They can search for any particular book using the book name or the author name according to their requirement. If the search is successful, the search engine will provide the complete details of the book and its owner.
- d) They can view the various University Papers.
- e) They can also check for the details of the book store in the area near the college.

III. USER INTERFACE DESIGN

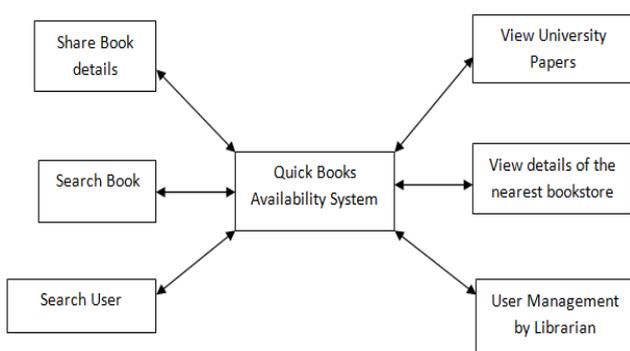


Fig. No. 1 User Interface Diagram

IV. TECHNOLOGY USED:

A. ASP.NET:

ASP.NET stands for Active Server Pages .NET and is developed by Microsoft. Web pages and web technologies are created using ASP.NET and is a fundamental part of Microsoft's .NET framework vision. As a member of the .NET framework, ASP.NET is a very valuable tool for programmers and developers as it allows them to build active, proficient web sites and web applications using compiled languages like VB and C#^[3]. It makes performing common tasks such as simple form submission and client authentication to deployment and site configuration easy, thereby providing simplicity. The source code and HTML code are written together. Therefore, writing and

maintaining ASP.NET pages is less complicated. Also the execution of source code on the server, provides a lot of control and suppleness to the web pages.

B. C#:

C# is one of many .NET programming languages. It is object-oriented and allows one to build reusable components for a wide variety of application types^[2]. It treats class-method's signatures as free functions and hence creates more dynamic and flexible relationships between classes^[2]. Since we are working in an environment which involves Windows servers, Windows clients, IIS, Active Directory, and SQL Server then C# is the far best language with the .NET Framework^[1].

C. SQL

SQL stands for 'Structured Query Language'. SQL allows us to access and manipulate databases. SQL is ANSI (American National Standards Institute) standard. SQL is used to perform a number of operations on a database such as execute queries against it, retrieve data from it, insert records into it, update records in it, delete records from it, create new databases, create new tables in it, create stored procedures in it, create views in a database, set permissions on tables, procedures, and views etc.

D. Eclipse

Eclipse is an integrated development environment (IDE). It contains a base workspace and an extensible plug-in system for customizing the environment. Coded mostly in Java, Eclipse can be used to develop a variety of applications^[4]. Android Development Tools (ADT) is a plug-in for the Eclipse IDE that is designed to provide an integrated environment in which to build Android applications. ADT widens the capabilities of Eclipse to let developers set up new Android projects, create an application User Interface, add packages based on the Android Framework API, debug their applications using the Android SDK tools, and export signed (or unsigned) .apk files in order to distribute their applications. It is available for download as a freeware. It was the official IDE for Android but was replaced by Android Studio (based on IntelliJ IDEA Community Edition)^[5].

E. XML :

Extensible Markup Language (XML) is a simple, very lithe text format derived from SGML (ISO 8879). Originally designed to meet the challenges of large-scale electronic publishing, XML is also playing a vital role in the exchange of a wide variety of data on the Web and elsewhere^[6]. For the android application, working with Eclipse ADT, the front end can be developed using XML.

F. Java :

Java is a general-purpose computer programming language that is class-based, concomitant, object-oriented and particularly designed to have as few implementation dependencies as possible. It aims to allow application developers "write once, run anywhere" (WORA), meaning that compiled Java code can run on all platforms that support Java without the need for recompilation^[7]. Working in the eclipse ADT, java is used as an interconnecting platform for the various XML form.

G. Webview :

Webview is used if one wants to deliver a web application (or just a web page) as a part of a client application. The WebView class is an extension of Android's View class that allows you to display web pages as a part of your activity layout. It does not consist of any features of a fully fledged web browser, such as navigation controls or an address bar. All that it does, by default, is show a web page by soaking it in completely. When developing a web application that's designed specifically for the WebView in your Android application, you can create boundaries between your JavaScript code and client-side Android code^[8].

V. BENEFITS

- A perfect solution at a distance of just a screen touch to overcome the crisis of exchanging books amongst the student clan
- A hands-on solution for searching appropriate books prescribed by the university
- An adept venue for selling the previous year books
- Accessibility through all the internet enabled devices
- A multi-functional platform to ease out the burden on students.

VI. CONCLUSION

With all the efforts invested in Quick Books Availability System, we believe that at the end of the project, automatic technology finds itself a much better place and moves a bit closer to the real world. We summarize the progress with respect to the main objectives of the project, namely, scalability, convenience and accessibility.

Quick Books Availability will help all the college students overcome the communication barrier that is present currently amongst them. It makes the search of the suitable study material trouble-free and one can even effortlessly sell their previous year books at the same juncture. So if one wants to buy a particular book, then he just has to type the book name or the author's name or the owner's name in the search engine and the work is done. The proficient search engine will provide with the most apt results for the search. This application aims at bringing together all the college students so that they can help and be helped. It will be beneficial for all the students who are extensively charged for buying books otherwise and at the same time who get a very fewer amount in return to their previous year books. Thus, the proposed book exchanging system will definitely prove to be a boon for all the students.

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