

Alumni Connect – One Stop Destination for Study Material

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Abstract:

Books are the spray of knowledge and access to them is something that is often taken for granted. The truth however is that many people have books lying around the house that they don't need anymore that could be useful to someone who is in dire need of it. Android is one of the most commonly used mobile application operating systems in the world due to the support it offers to both users and developers: its ease of use and development. This paper proposes a simple mobile-based application to link people who are interested in donating their books to those who might be in need. This application has been named 'Alumni Connect' keeping in mind that it will connect the needy and the donors and enable them to get the books that they require from students that are done using them.

This project is an e-commerce platform, and it is an Android-based APP developed based on Android. Android Studio and cloud service platform Bomb are used as tools to develop. When you read a good book, you can understand others and see yourself also, you can get a lot of understandings every time. Reading is a significantly preferred thing to do. No matter how busy a job is, people will spend a specific amount of time buying and reading books. The APP design page is an attractive, user-friendly interface, and high user experience, on the online bookstore APP, buyers and bookstore managers can achieve their own needs. Buyers can quickly buy their favorite books. Administrators can deal with orders created after book buyers' books the first time and update books in bookstores in time. The development of such an APP is of great importance for economic development, and much more suitable for students to use.

Keywords — Alumni Connect, Android app, Flutter based android app, Online book reselling.

I. INTRODUCTION

Android is a highly powerful Linux Based Operating System developed in 2005 and released later in 2008 by Google. It is developed and used mainly in devices like tablets and smartphones. A mobile application is a small program that runs or is designed to run on tablets, smartphones, and other mobile devices. Smartphones have become a necessary device that people carry wherever they go. The comfort of use, and widespread access smartphones provide have made them more of an essential rather than an entity for most people. By 2018, the number of smartphones produced achieved 2.53 billion and is still increasing. The emerging

tendency is the utilization of mobile apps in all fields possible that can range from entertainment or education to healthcare or even games. The donor population, like the rest of society, is technology-dependent and prefers the instant communication and instant responses that smartphones provide them. Many people have books lying around their house that they do not require or use anymore. These books can be utilized by a person who needs the book and either does not have it or cannot afford to buy it. Thus, these books can be donated to the needy or the underprivileged or even to someone who wants to expand their knowledge in their field of interest. Making book donations commonplace and available

to the common man might make a big difference and allow someone to complete their education.

The problem, however, of finding a person willing to donate and a person who needs the books you have. The proposed project attempts to eliminate this gap between the donors and the buyer of the books. Appropriately named ‘Alumni Connect’, the application allows users to look for those who are interested in donating their books i.e. the donors, and also allows users to register as one. All the donors in the index in the application can also be reached by just clicking on their names in the list.

II. PROBLEM STATEMENT

Many students are looking for a second-hand book manually. Some students can’t afford to buy new books as they are very expensive. Some senior students have passed the semester and don’t require those semester books anymore. New admission doesn’t know their seniors at an early stage of joining the institution. So, to bridge the gap between the seniors and juniors, we came up with an idea to develop an application where seniors can register themselves and list the books for re-selling. New admission or fresher students can buy those books after the registration process.

This project aims to develop an online reselling portal for students with the goal so that it very easy to buy or sell old books. Alumni Connect helps you can buy or sell your old books from the comfort of your home. Here is no compelling reason to go to crowded stores or bookstores. You simply require a PC or a laptop or an Android phone and one important payment sending option to shop online. To get to this online reselling portal all the customers will need to have an email and password to log in and proceed with their shopping. The login credentials on this project are highly secure nobody can view your credentials. Upon successful login, the customers can purchase a wide range of things such as books, notes, old question papers, etc. can be dispatched using the online shopping system. And you will get your requested books at your doorstep. It is simple. You will pick your required books from various re-sellers looking at cost and quality. You don’t need to go to physical shops. You just need a

Smartphone and a payment-making option. It is extremely secure. Customer service is accessible.

III. EXISTING SYSTEM

Many freshers have to buy costly new books which some students can’t afford. Also, the students who have passed the previous semesters don’t require their books anymore. So they search for freshers who buy their books. But this sounds like very tedious work and time-consuming.

IV. Purposed System

The major goal for Alumni Connect is that in the future people, especially students should have an easy way to buy and sell books online. The users will be able to carry out all these in a safe and organized environment. This app shall be easy to navigate and user friendly and easy to find books in various categories.

a. Advantages

Alumni Connect provides the following advantages :

- Freshers no need to worry about books and other study material
- Seniors can sell their old books and make some money
- Fresher and seniors get connected.
- Students can download Sample Question Paper also.
- Students get books easily
- No need to all the way long to the book store

V. Software Tools Specification: -

→ Android Studio - Android Studio is the authorized Integrated Development Environment (IDE) for android application development.

→ Visual Studio Code - Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux, and macOS. Features contain aid for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

→ MongoDB Compass - MongoDB Compass is a strong GUI for querying, aggregating, and analyzing your MongoDB data in a visual environment. Compass is free to use and open source available and can be run on macOS, Windows, and Linux.

→ GIT - Git is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development.

→ Node JS - Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.

VI. Hardware & Software Requirements: -

→ Mobile Specifications-

ANDROID VERSION: 9.0 or above

ANDROID LEVEL: 28 and above

→ System Specifications-

Processor: Intel Core i5 / AMD Ryzen 5 or higher

RAM: 8GB or higher

Storage: 120GB or higher

→ Software Required-

Browser : Google Chrome / Mozilla Firefox / Microsoft Edge / Internet Explorer

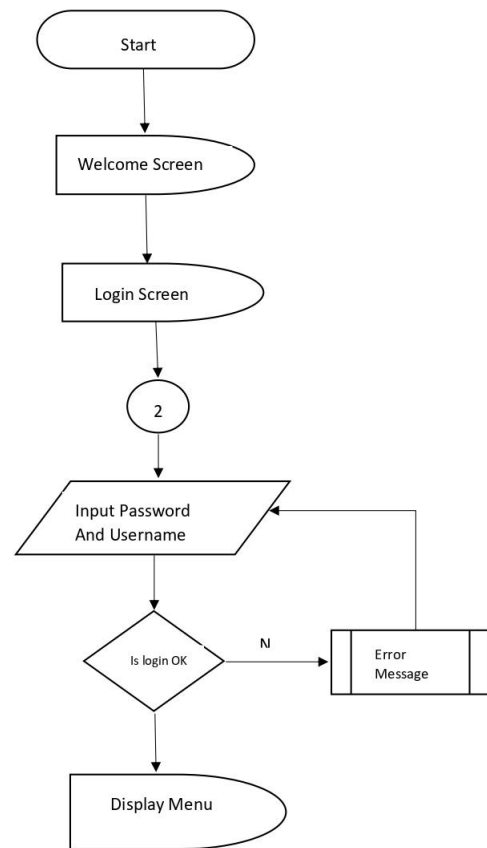


Figure 1: Login Process Data Flow Diagram

VII. SYSTEM DESIGN

VIII. Data Dictionary

Column Name	Type	Null
Full Name	VARCHAR(30)	NO
Email	VARCHAR(30)	NO
Mobile Number	VARCHAR(30)	NO
Gender	VARCHAR(10)	NO
City	VARCHAR(30)	NO
Date Of Birth	DATE	NO
Branch	VARCHAR(30)	NO
Year Of Study	INT	NO
Course	VARCHAR(30)	NO
Password	VARCHAR(30)	NO

Table 1 User Database Structure

Column Name	Type	Null
Book Name	VARCHAR(30)	NO
Author	VARCHAR(30)	NO
Edition	VARCHAR(30)	NO
Subject	VARCHAR(10)	NO
Publisher	VARCHAR(30)	NO
Price	INT(5)	NO

Table 2 Book Database Structure

IX. CONCLUSIONS

The “Alumni Connect” app connects the people who have books lying around their house that they do not need any more with the people who are in need of these books. One can register to donate quite easily. It can be easily used to contact those who want to donate and the receiver can also complain if the book they have received is not up to date. It will allow people to take out those books from home that are not being used by them and then give those to someone who really needs them. According to the research carried out, this is the first book donation application and can be a revolutionary application, especially in a country like India. It can be easily used to contact those who want to donate.

X. FUTURE SCOPE

However, there is still scope for a lot of improvements that can be done in the application like using sorting operation in the database to search for students selling books of a particular genre or using Google Maps API to look for donators nearby

Storing the image of every seller and then storing it in the database can be another function that can be added to this application

Students of other fields who don't belong to engineering can also re-sell their books on this app Engineering Students of other states will also be able to upload their books for re-selling. Can introduce voice-assisted search

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