ANDROID APPLICATION FOR LIBRARY SYSTEM

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ABSTRACT

Android programming is based on Java programming language, with UI part in XML and have extension as apk. The main idea of this project is to intimate each and every person of our university(including staff and student) should maintain a separate account so that they can have clear idea of what books they have took and what all books those are available in library through search option and they also can know duration of the book and when they have to return the book with clear intimation. Development has resulted through booking procedure (virtually) but not manually.so that Free Digital Library can be obtained. This project work application offers user to make a search for a book that user want from the library. If a particular book is available in the library then it will be shown to user and in turn if book is not available in library then user can make request through this app for that particular book which is already issued to other student. This application deals with the development and implementation of smartphone application which is more effective and simple than current existing web based application.

Index Terms — Android, Google, Kernel, Library, Search, Request.

I. INTRODUCTION

Operating Systems have developed rapidly in past 15 years. Starting from basic phones to recent smart phones, mobile OS is developing, every time we are getting new versions in android OS. Especially for smart phones, Mobile OS has greatly evolved from windows to Blackberry OS and then to Android. One of the most widely used mobile OS is android. Android is a software bunch of comprising not only operating system but also middleware and key applications. Every new version android will have lot of updates or in other words it will fill all the patches which are present in the older version.

Creating and managing an Android app for University Library system where college students and faculties can access the library through this application very easily. Books can be searched by anybody who belongs to this university. This application offers us to make a request for the book we want from the library, if the book is available in library then it will be shown to the user, if book is not there in library the user can make request through this app for the book which had been issued to some other person. And in turn when our library database get updated with that book, response back notification will be send to user who has requested for that. The user has to respond the notification within 6 hours. Else it will be issued to some other person who has requested for it after him/her.

ANDROID VERSIONS AND THEIR NAMES:
Note that versions 1.0 and 1.1 were not publicly named.

Cupcake: Android 1.5
Donut: Android 1.6
Eclair: Android 2.0 and Android 2.1
Froyo: Android 2.2
Gingerbread: Android 2.3
Honeycomb: Android 3.0 and Android 3.1 and

Android 3.2
Ice Cream Sandwich: Android 4.0
Jelly Bean: Android 4.1 and Android 4.2 and Android 4.3
KitKat: Android 4.4
Lollipop: Android 5.0 and Android 5.1
Marshmallow: Android 6.0

II. RELATED WORK

Subarnarekha ghosal et al [1] proposed android application for ticket booking and ticket checking suburban railways.
Ceipidor et al., [2] proposed A Mobile ticketing with NFC management for transport companies.
Neefs, et al., [8] proposed Paper ticketing vs. electronic ticketing based on off-line system 'Tapango'.
Recently there are many online ticket booking applications available on play store (such as Book my Show, irctc, redbus ) where we can book a
III. PROPOSED CONCEPT

In this proposed system, we intend to develop an Android-based application providing the necessary services for accessing the University library database. The enrolled students can search for the booking the application and get their responses from the moderators (admins). This application can also provide the respective student details with separate account for each and every person. It also provides notification through sms or e-mail, if the user requested the issued book. If the user exceeds the return date of the book then he will get a notification regarding his punishment (FINE details) and the user also can check the return date and issued date of the book (COMPLETE DETAILS ABOUT THE ISSUES BOOKS). TOAST appears often to give indications or directions.

IV. OVERVIEW

The detailed process is shown in the below Flow Chart:

A. DESCRIPTION

The overview defines when the user signing in or signing up, the data that will be stored in the SQL database. When the user entered information is verified, he will be successfully signed in.

After successfully signed in, the user now search a book with the help of BOOK NAME and Author Name. If the book exists in the library, then the user can get the book from the library. If the book doesn’t exist in the library then make a request for the book, this made request will sent to you in the form of Smss or email and you can get rid of that book within 24 hours. The reason why we need to bring this project into existence, they are many problems like people have no idea when the book will be returned to the library, so users can easily access the library.

B. Working process

we are encountering this problem with the help of notification via message or email servicing so that people may get rid of that particular book. Finally, to maintain a clear idea to every individual what all books they have took from the library and what all books they have to return and also they will get a notification like the submission date has been expired. So please return the book.

V. RESULTS AND DESCRIPTION

i. LOGIN/REGISTER

Each one should fill the sign up form and these details will be stored in the virtualized sever and the registration number and date of birth will act as user name and password.
ii. SERACHING A BOOK
We can search a book with the help of book name and author name and here u can check for the availability of the book and u can also make request for a book.

iii. NOTIFICATIONS
When the return date exceeds then u will get a notification (Toast).

iv. INTIMATION THROUGH EMAIL OR SMS
As soon as the book is returned to the library the request user will get an intimation so that the user can take that particular book from the library.

VI. CONCLUSION
The Idea has came to an end to make a Library system android application. The theme of the project is to activate freely and friendly access of digital library. This project encountered an issue that made an ease access to our digital library. Users can have the regulated and detailed view of the library. Each user will be aware of what books they had took previously and when to return all those books with a clear cut notification when ever they opens the applications.

VII. REFERENCES


