SMART ANDROID APP FOR LIBRARY FOOTFALL

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Abstract: Traditionally, There is one system for library footfall analysis is that when students enters into library then he/she has to written down its name, id and entry time in a register. It is hectic to analyse this register to librarian. The android app will make it easier. Student have to login in this android app by using barcode-ID. Scanning the barcode of library via android app will record entry and exit time of students.

***IndexTerms* – Barcode.**

I. INTRODUCTION

Everyday library manages a register which records entry and exit times of students.These records are important for analysing how many students visited library.When student enters library it scan library barcode by using android app. After scanning library barcode information can be stored in database and this records maintained by admin. When student leaves the library it again scan the library barcode and exit time recorded. With the help of this information library footfall analysis will be easy..

II. LITERATURE REVIEW

Author [1] has introduced web application which provide college facilities to students after scanning the barcode. Author[2] discuss aims developing of an advance system for student which can be used in library management using smart cards which can be used in educational institute. Author[3] given idea about implementation of automatic barcode scanner by using arduino. .Author[4] has given idea about RFID(Radio Frequency Identification) based smart library management.

III. PROPOSED SYSTEM

In this paper we have used the Kotlin language for android app development. Proposed system consists of only software part. Footfall analysis Android app include following parts:

A. Login:

Students have to install android app in his/her android phones. Students will login in that app by using their ID barcode and generating password and ID.

B. Scan Barcode:

With the help of footfall app students have to scan library barcode at entry and exit respectively. By scanning barcode the records of students will be stored in database.

C. Select Section:

After scanning the barcode students have to select section like journal,internet, reading hall in the android app.

D. Logout:

After scanning the library barcode at exit student will logout from app.

E. Admin:

Admin will access database and analyse the information.

F. Diagram:

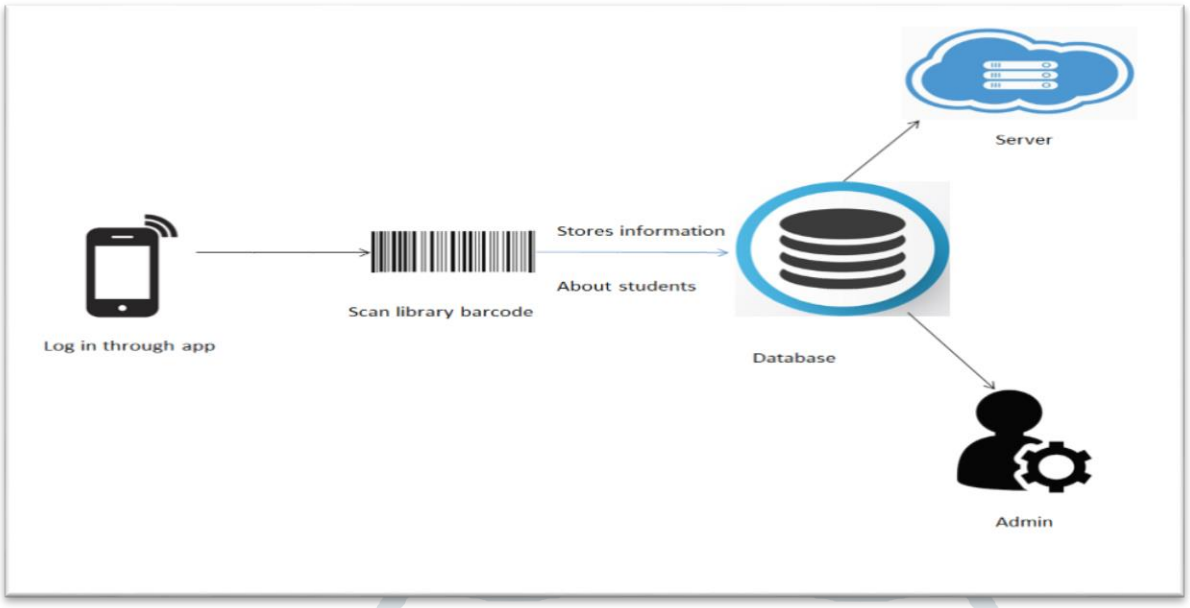

Fig: proposed system for smart android app for library Footfall analysis

IV. Conclusion

Smart android app for library footfall analysis will make traditional library system smart. This smart system require less time for manual work.

V. Future Scope

1. Implement barcode system for entry and exit from library.
2. Record the visiting time as well as egress time of visitors.
3. Generate the report on the basis of personal information of visitors.
4. Make use of software for barcode scanning system to speed up the lines at library register counter.

References

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