International Journal of Future Innovative Science and Engineering Research (IJFISER)
Volume – 3, ISSUE – I **ISSN (Online):2454- 1966**

Research Manuscript Title

SMART ANDROID APPLICATION FOR LEAVE MANAGEMENT SYSTEM

S.Geetha Priya[1], **S.Kowsalya**[2], **Ms. B.Anitha., M.E**[3]

UG Scholar[1,2], Assistant Professor[3]
[(1,2,3)]Department of Computer Science and Engineering,
[(1,2,3)]Vivekanandha College of Engineering for Women, Tamil Nadu, India.

Corresponding author E-Mail-ID: geethuvijaya1996@gmail.com.

March – 2017

www.istpublications.com

International Journal of Future Innovative Science and Engineering Research (IJFISER)
Volume – 3, ISSUE – I ISSN (Online):2454- 1966

SMART ANDROID APPLICATION FOR LEAVE MANAGEMENT SYSTEM

S.Geetha Priya[1], **S.Kowsalya**[2], **Ms. B.Anitha., M.E**[3]

UG Scholar[1,2], Assistant Professor[3]
[(1,2,3)]Department of Computer Science and Engineering,
[(1,2,3)]Vivekanandha College of Engineering for Women, Tamil Nadu, India.

Corresponding author E-Mail-ID: geethuvijaya1996@gmail.com.

ABSTRACT

The main aim of this project is to maintain the attendance for the students of the different Institute and then to perform the leave requisition forms, electronically. The students from anywhere they can request their Leave and Permission. Leave management system deals with the maintenance of the student's and Staff attendance details. It is generates the leave of the student and staff on basis of presence in class. It is maintained on the daily basis of their attendance. The staffs will be provided with the separate username & password to make the student's status. The staffs handling the particular subjects responsible to make the attendance for all students. Only if the student present on that particular period, the attendance will be calculated. The students attendance reports based on weekly and consolidate will be generated and report was send to their parents.

Keywords— GPRS, Attendance, Android, smart phone, etc.

1. INTRODUCTION

Changes in Information Technology (IT) allow schools to utilize databases and applications thus, making the accessing of records centralized. One of the changes that came about is the online-based applications. These applications are an improvisation to the traditional- transaction processing systems. Thus, most universities switch to the online system because of its efficiency to acquire process, store and retrieve information from the Internet. The Student Information System (SIS) would be a new way of record management and transaction processing that would achieve efficiency on processing student information. It would be a great help to the administrative personnel, academic personnel or stakeholders and students in updating, retrieving and generating student data. The developed android application will be used by teachers, students, parents and the administrator who maintains the system. The students will use the application to enter their personal details of student and academic details of the students leave details.The teachers can verify the details entered by the students and the teachers can enter the details for each student. Also, the students as well as their parents will be informed about the attendance percentage periodically through the application. The administrator has the authority of modifying the student details, adding or deleting teachers as and when they get admitted to the college or leave the college. Thus, this application will automate the manual student information maintenance process in colleges. It will also reduce the amount of paperwork done and time invested in manual process by the teachers.

Android's mobile operating system is based on the Linux kernel. Google and other members of the Open Handset Alliance collaborated on Android's development and release. The Android Open Source Project (AOSP) is tasked with the maintenance and further development of Android. The Android operating system is the world's best-selling Smartphone platform. The Android SDK provides the tools and APIs necessary to begin developing applications Android platform using the Java programming language. Android has a large community of developers writing applications ("apps") that extend the functionality of the devices. There are currently over 250,000 apps available for Android.

2. RELATED WORK

This leave application system mainly used in many organization. Most of the sectors follows manual procedure. Some of the sectors even follow online leave application system. The leaves are calculated manually at the end of the each month. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers. This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work. so the user find it difficult to use.

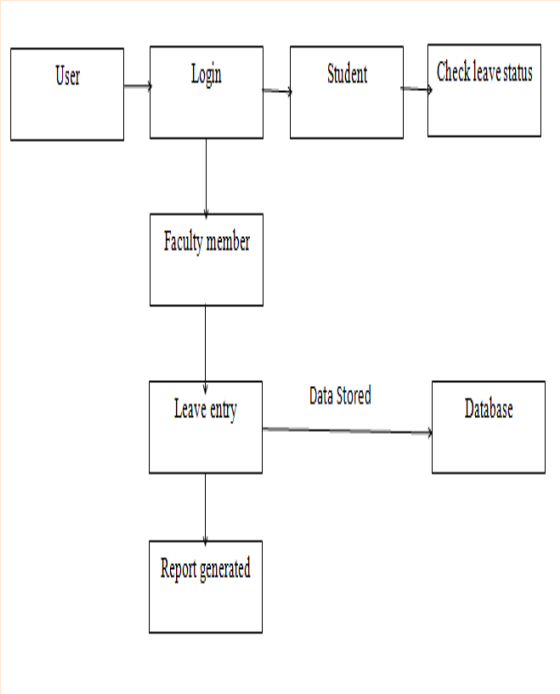
The Existing system is a manual entry for the students. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the user. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers. This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work. so the user find it difficult to use.

3. PROBLEM DESCRIPTION

Leave calculation is done manually. Some sectors will use only the individual leave application. Takes more time to complete the work. Employees need to submit leave application one month ahead from the date of commencement of the leave applied for. Consequently, the employees cannot get the leave if it is immediately needed. In this concept take a lots of paperwork. It is taken by lots of time consuming. It is very difficult to generating a leave report. Not user friendly.

4. PROPOSED SYSTEM

The project is aimed to develop in the Android Application . The database management system is used for storing and retrieving the details. Easily accessible and consolidated leave information for analyzing and reporting. Once a manager confirms an employee's leave status and updates the leave balance, the Leave Management System cycle is completed. Smooth automation of existing manual systems based on an organization‘s unique business processes. Every day attendance, leaves and notices information is updated in to database using a user friendly GUI. This application is an online application which makes more flexible to access information. This project aims to reduce the paper work and saving time to generate accurate results from the student’s attendance. The system provides with the best user interface. The efficient reports can be generated by using this proposed system. The system provides solution to lecture attendance problems through the use of AMS that is interfaced to the server. At first, the student enters his/ her details in the system through the application. The student also enters his/her parent’s details. Every student is given a unique student id and they have their password. The student enters this Id and other personal details (Name, Department, Division, and Semester etc.). The student then log’s on into his account. Reports can be generated as and when required. Facility is provided to generate weekly as well as monthly reports. At the end of the month, SMS’s can be sent to the parents/guardians of the students, thus informing them about their wards attendance.



A. Modules

- Administrator Module
- Staffs Module
- Student Module

B. Administrator Module

1. Student Details:

In this module deals with the allocation of roll no and personal details for new batch. It will generate of personal details of student and academic details of the students with the photos.

2. Staff Details:
   - It helps to allot the subject and the subject code to the particular staffs.
   - It provides the facility to have a user name and password to the staffs .
3. Leave details:
   - It will be makes to the attendance database all students. Entered attendance to stored in the database subject ,period wise into the particular date.
   - It will helps to get report of weekly and consolidate of the attendance
4. Report details:
   - Report can be taken by daily, weekly and consolidate:
   - weekly report get all hour details of attendance starting date to ending date and display the status
   - Consolidate report get all student attendance details starting date to ending date status help for the eligibility criteria of the student to attend the examination.

C. Staffs Module

1. Leave details:

It assists the staff to mark attendance to the students for their subject. This will authenticate the staff before making the entry.

2. Report details:
   - weekly report get particular hour details of attendance from starting date to ending date and display the status .

- consolidate report get all student attendance details from starting date to ending date status help for the eligibility criteria of the student to attend the examination.

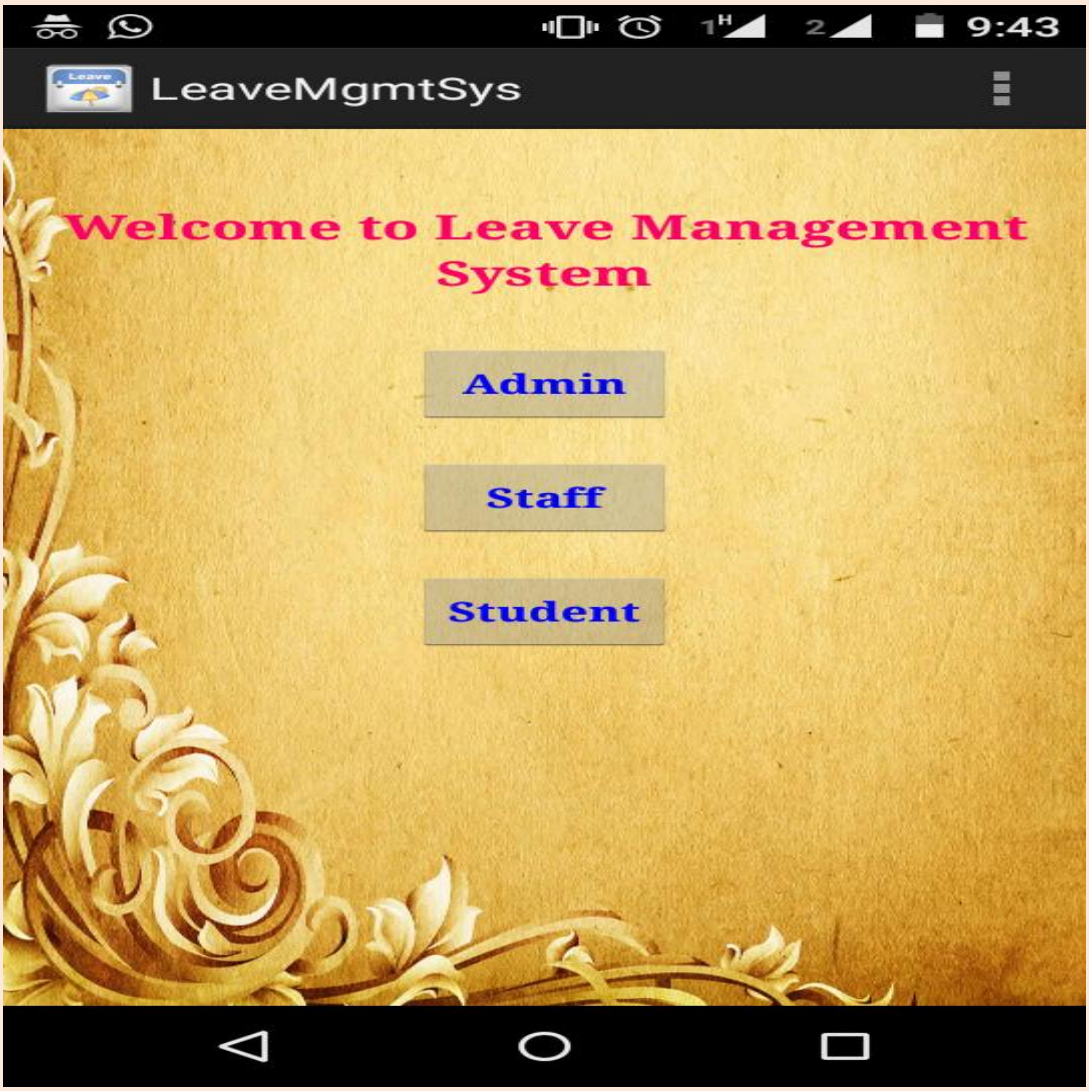
D. Student Module

1. Leave detail:

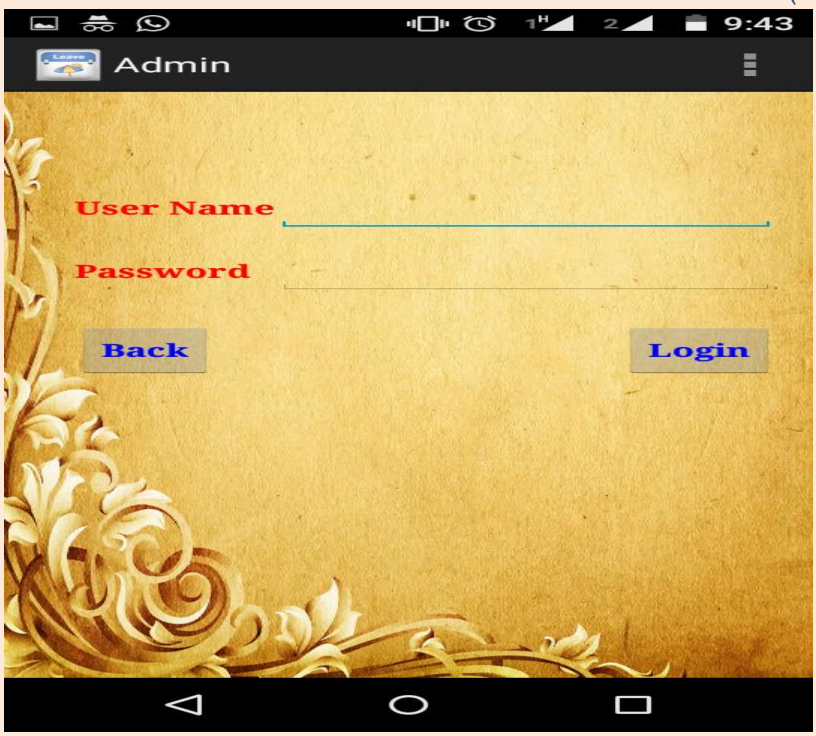
It assists the student to can send leave details to the staff and admin. This will authenticate the student before making the entry.

5. RESULTS AND DISCUSSION

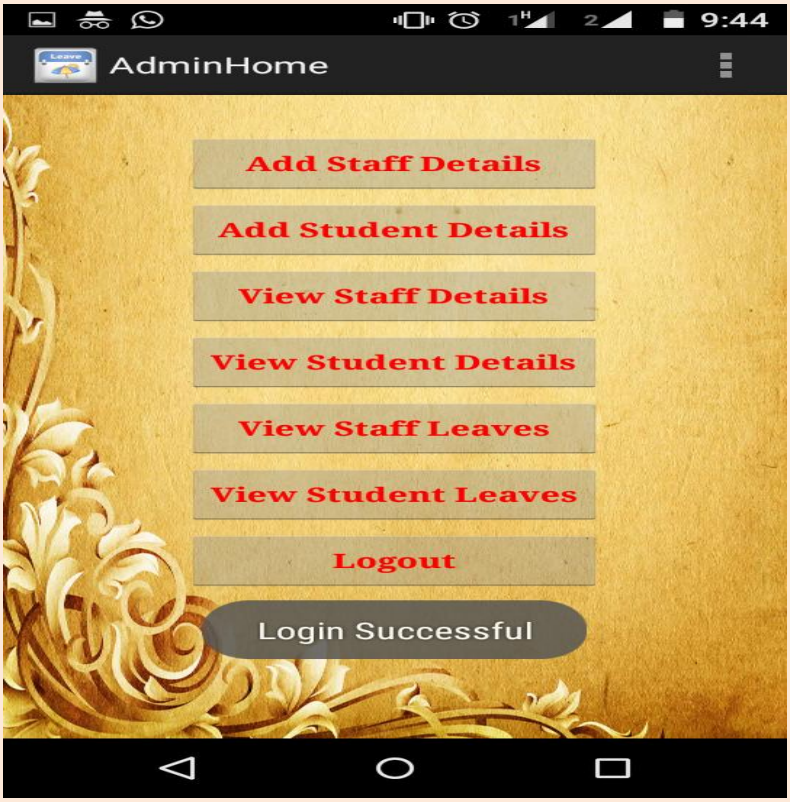
WELCOME PAGE



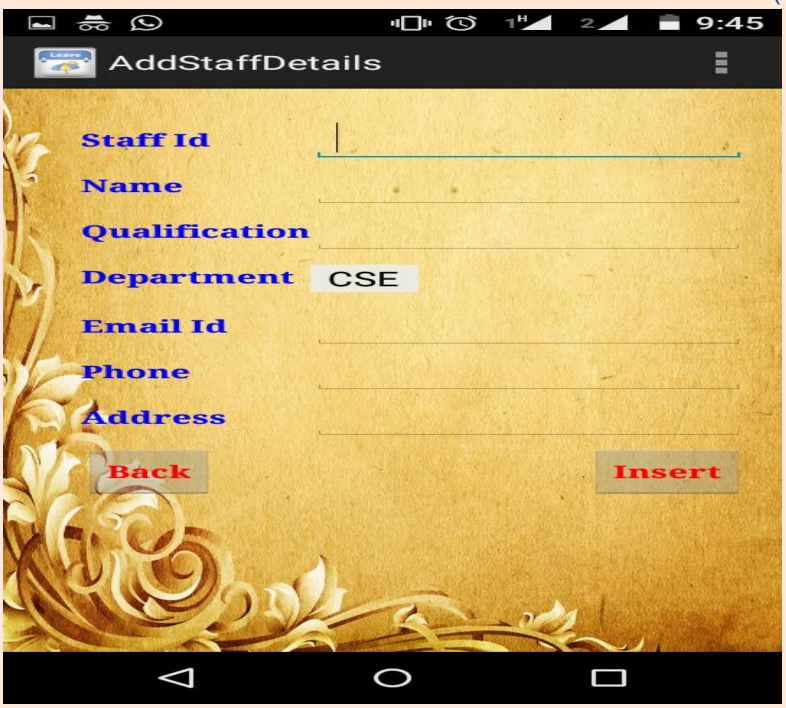
ADMIN LOGIN PAGE



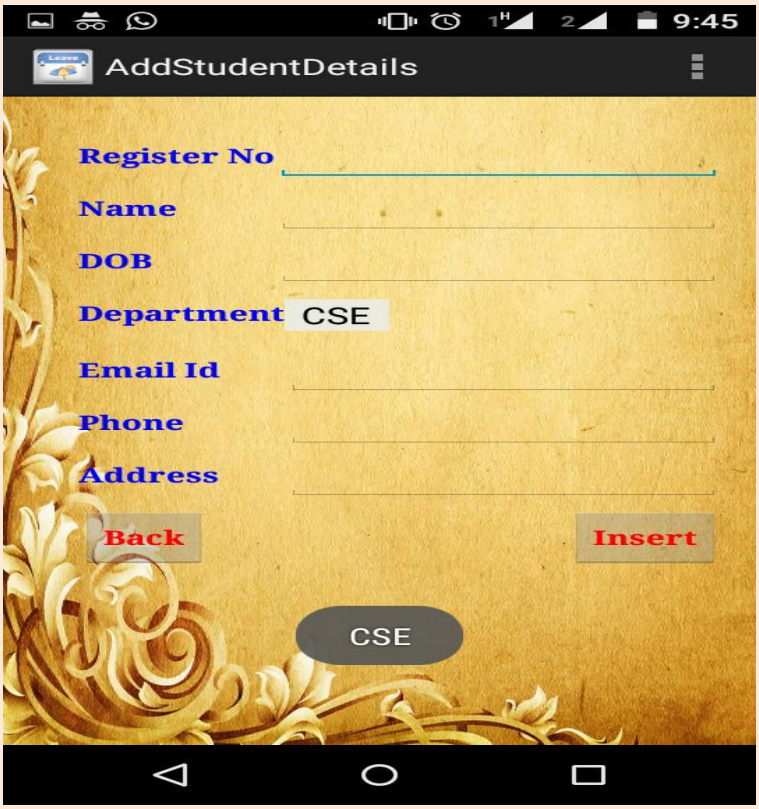
ADMIN HOME PAGE



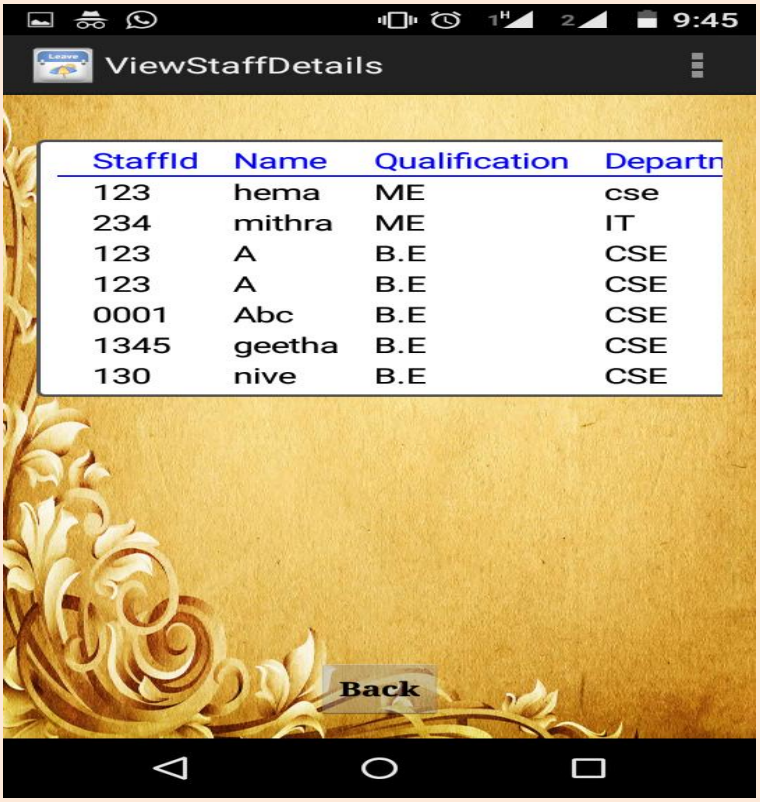
INSERT STAFF DETAIL



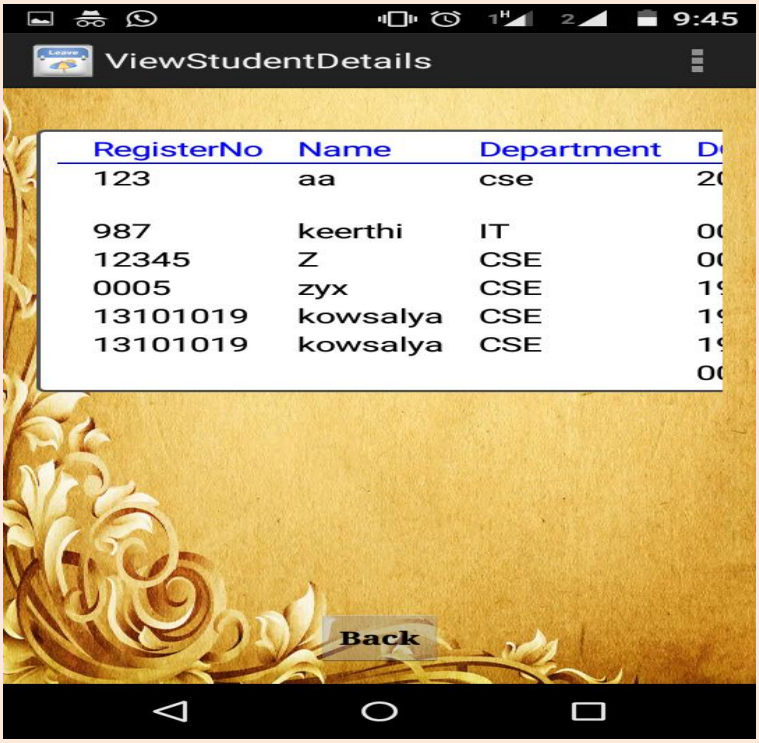
INSERT STUDENT DETAIL



STAFF DETAILS

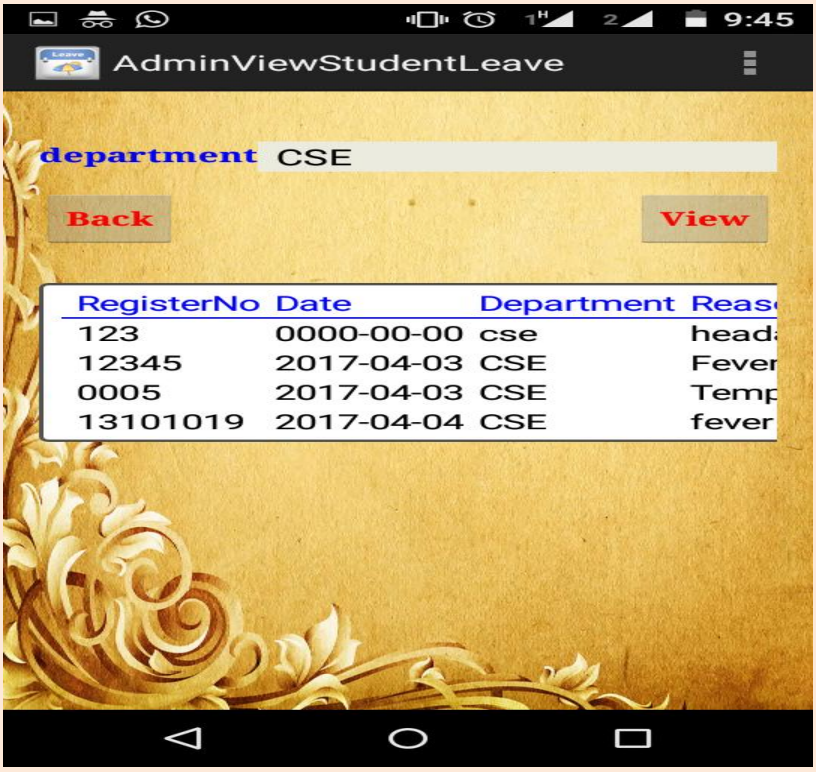


STUDENT DETAILS

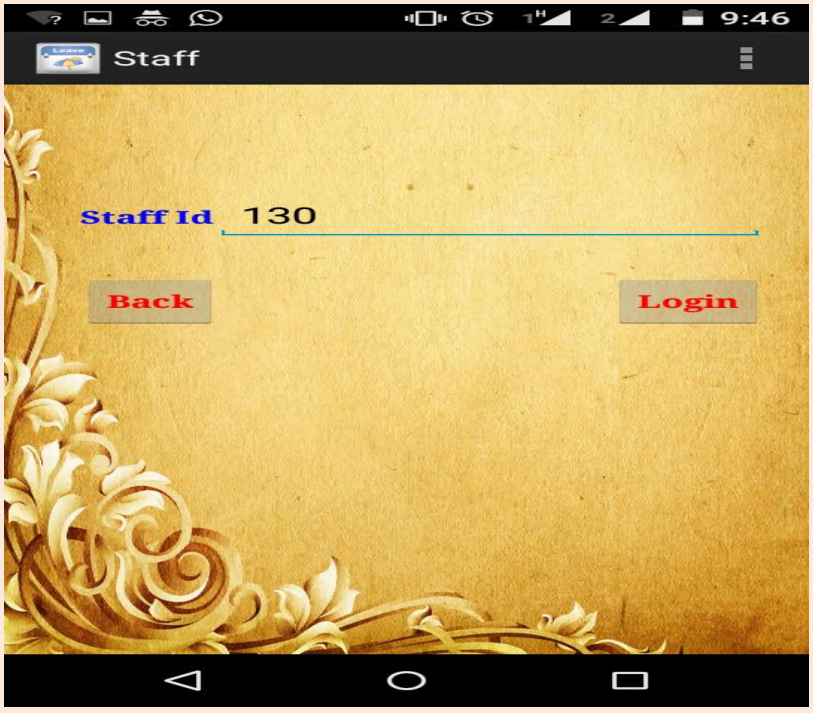


STAFF LEAVES

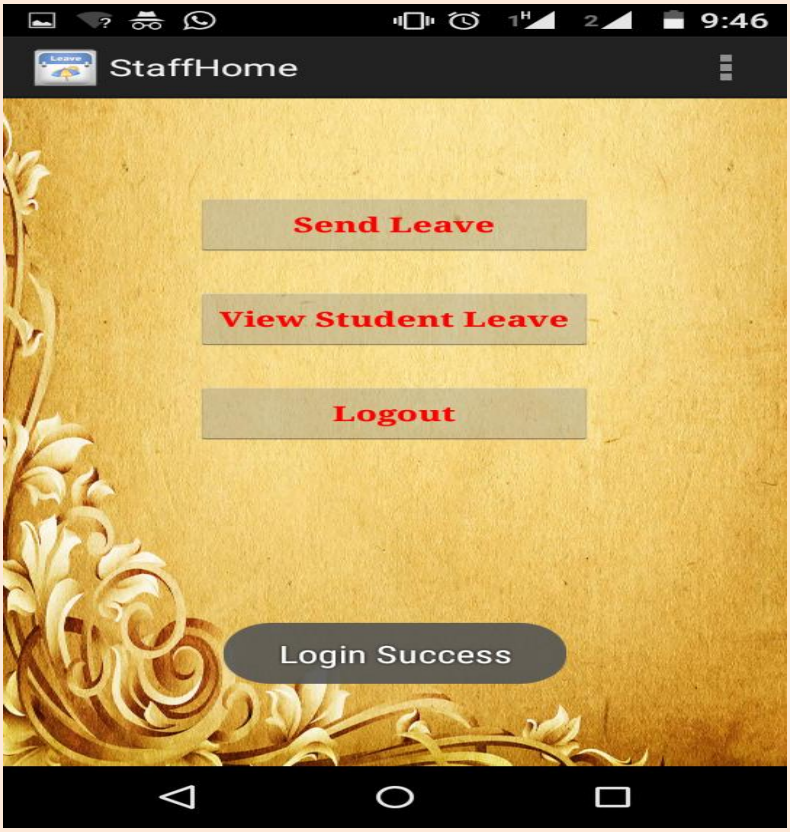
STUDENT LEAVES



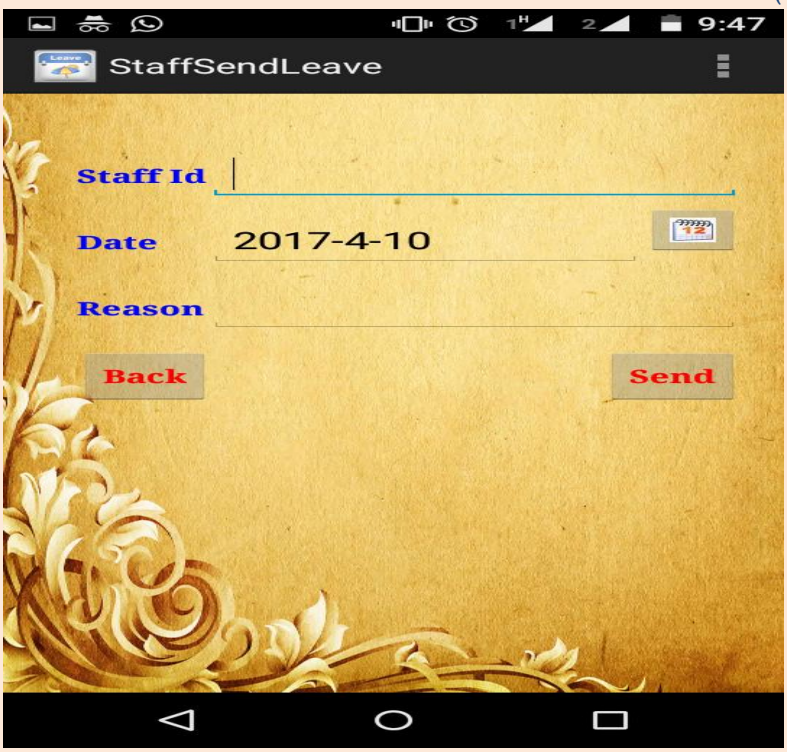
STAFF LOGIN PAGE



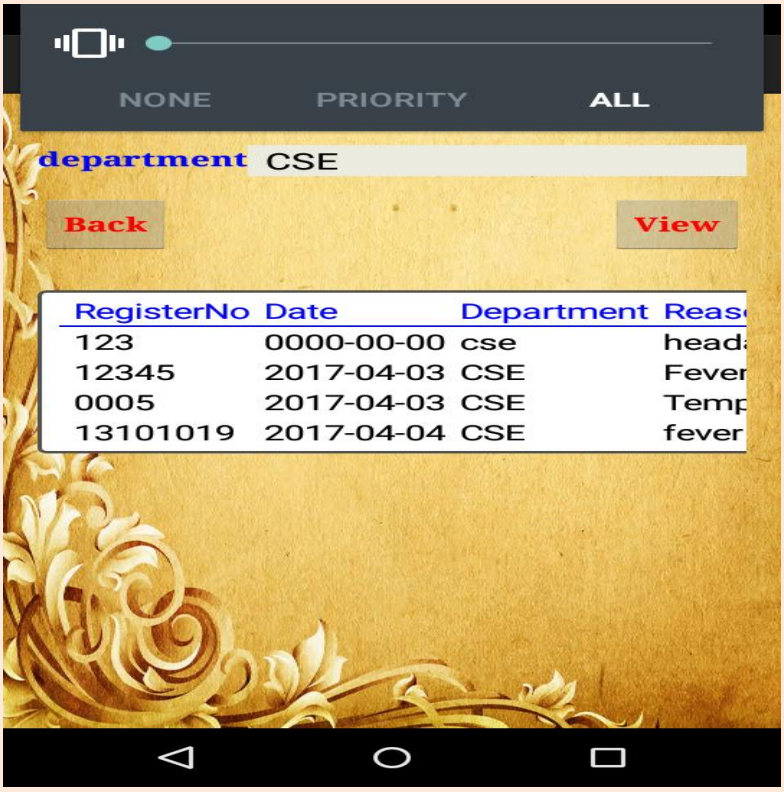
STAFF HOME PAGE



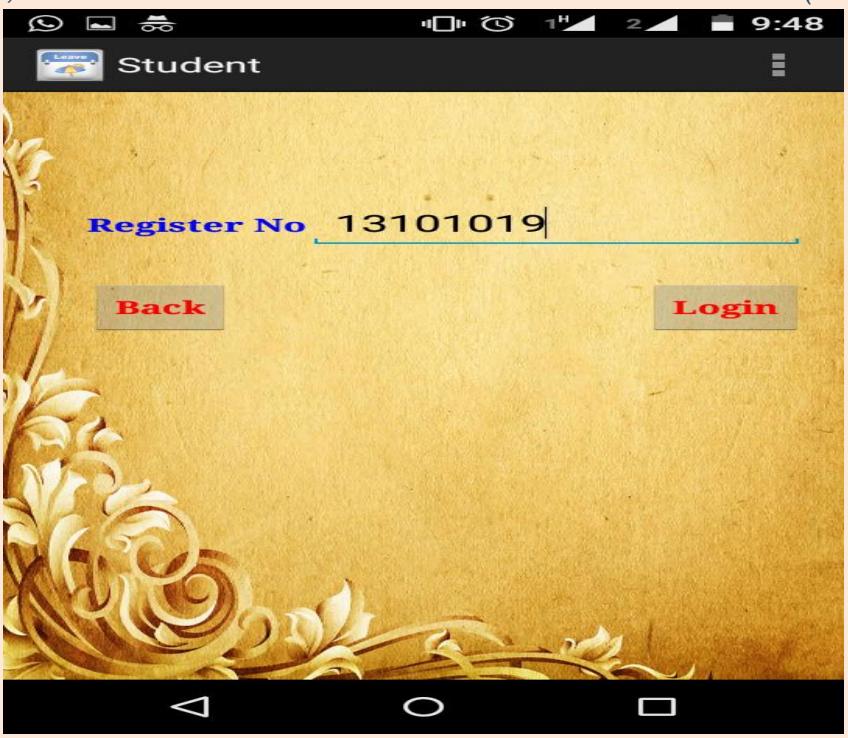
STAFF LEAVE FORM



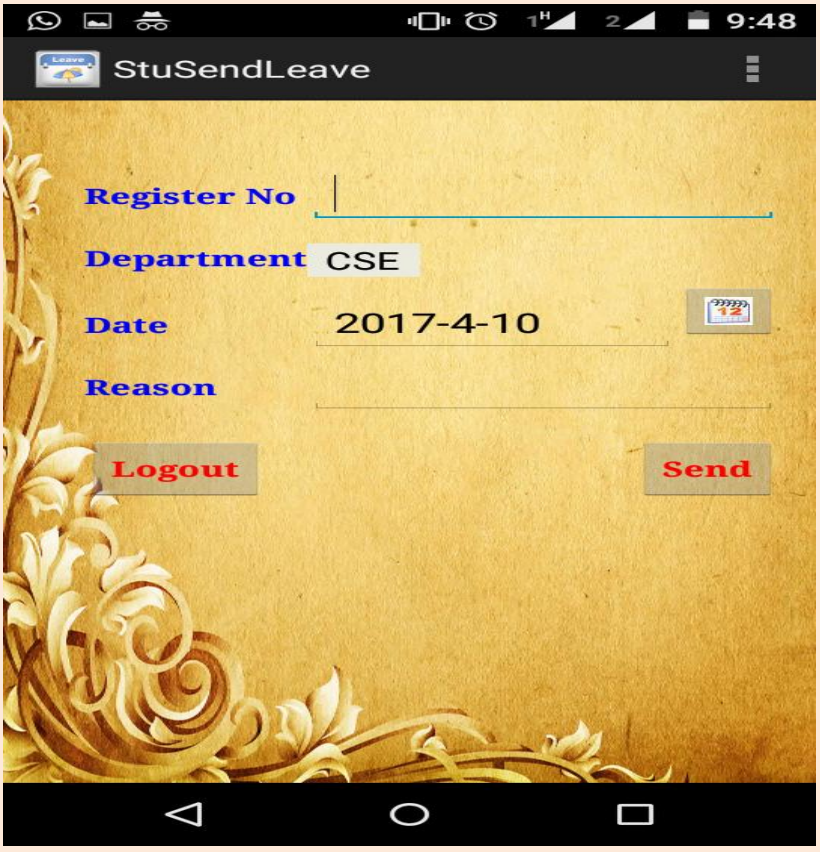
STUDENT LEAVES



STUDENT LOGIN



STUDENTS LEAVE FORM



6. SUMMARY AND CONCLUSION

This paper assists in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced. All years together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management. So it is better to have an android application for student information management. All the stakeholders, faculty and management can get the required information without delay. This system is essential in the college/hostel and Universities.

REFERENCES

[1] Mobile Phone Based Attendance System", by Shraddha S.Chawhan1, Mangesh P. Girhale2, Gunjan Mankar3, IOSRJournal of Computer Engineering (IOSR-JCE) e-ISSN:2278-0661, p-ISSN: 2278- 8727Volume 10, Issue 3 (Mar. -Apr. 2013), PP 48-50www.iosrjournals.org.

[2] "Portable Lab: Implementation of Mobile remote laboratoryfor Android platform", an IEEE paper by Macro AndreGuerra, Claudia Mariline Francisco, RuiNeves Madeira, Portugal.

[3] "Remote Access of Building Management System onWindows Mobile Devices"- an IEEE paper By OndrejKrejcar, Department of measurement and control,VSB Technical Institute of Ostrava, Czech Republic.

[4] "A Proposed Android Based Mobile Application to Monitor Works at Remote Sites", by S.Sivasubramanian1, S. Sivasankaran2,S. Thiru Nirai Senthil3,IJSR International Journal of Science and Research ISSN (Online):2319-7064 Volume 3 Issue 2, February 2014.

[5] "Component-Based Software Engineering" byIan Gorton, GeorgeT. Heineman, vicaCrnković, Heinz W.Schmidt, Judith A. Stafford, Clemens Szyperski, Kurt Wallnau9th International Symposium, CBSE 2006,

[6] Djoni Haryadi Setiabudi, Lady Joanne Tatyana, Winsen. "Mobile Learning Application Based on Hybrid Mobile Application Technology Running on Android Smartphone and Black- berry"IEEE International Conference, 1 - 5, 2013.

[7] AnkitaAgrawal and AshishBansal "Online Attendance Management Systemusing RFID with

Object Counter", International Journal of Information and Computation Technology.ISSN 0974-2239 Volume 3, Number 3 (2013), pp. 131-138.

[8] Vishal Bhalla, TapodhanSingla, AnkitGahlot and Vijay Gupta, "Bluetooth Based Attendance Management System", International Journal of Innovations in Engineering and Technology (IJIET) Vol. 3 Issue 1 October 2013, ISSN:23191058.

[9] Sarah Jane Aseniero, Arlene Buena, DannyCarreon, Joanna De Luna, Ma. Erlinda Simangan, Engr. Mary Regina B. Apsay.,"E- Learning for Programming Languages On Android Devices", International journal of scientific and technology research volume 2, issue 9, Jeffery A. Hoffer, joey F. Geroge and joseph S. Valacich, "modernsystem analysis and design", ed. 3rd. India: pearson education(singapore) pte. Ltd, 2002.

[10] C.J. Date, "an introduction to database system", ed. 7th. India: pearson education (singapore).Pte.Ltd, 2002.

[11] Craig larman, "applying uml and patterns", ed. 2nd. India: pearsoneducation (singapore) Pte. Ltd, 2002.