

# Android Based Mini ERP System for College Institutions

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**Abstract:** Mobile technology has introduced a new environment among upcoming generations that can be used to improve the management process. The proposed system will improve interactivity, accessibility, and convenience in the college management process. It is a simple yet powerful integrated platform that connects the various entities. It is a handy application that can be used by the parents and the administrator to facilitate communication. The application is portable as it is used on a mobile device and improves connectivity between the parents and the institution, thus helping the institution to provide a more transparent system altogether. The application also reduces a substantial amount of paperwork that is otherwise needed for the daily tasks in an institution.

**Keywords :** Android , Enterprise Resource Planning , Mobile technology , SmartPhone.

## 1. INTRODUCTION

Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smart phones and tablet computers. Android is an open source and Google releases the code under the Apache License. This open source code and permissive licensing allows the software to be freely modified and distributed by device manufacturers, wireless carriers and enthusiast developers.

Additionally, Android has a large community of developers writing applications ("apps") that extend the functionality of devices, written primarily in a customized version of the Java programming language. Fastest growing telecom network in the globe is in India, with many users moving towards Smart Phones and greater part by students. Other than India all over the world has roar in mobile with loads of application that are useful in day to day life such as Shopping Apps, video calls, games apps, photograph apps etc. The use of smart-phones which comes along with the excessive use of mobile applications is becoming more and more common, especially in the university domain. So we can design the product related to college information system.

### 1.1 PERSPECTIVE

The software mainly uses Android client devices (such as mobile phone, tablet computer, etc.) to log in via wireless net, then the procedure interacts with shared database by access to the specified WEB server. With the continuous improvement of information campus. System respectively acquire needed information from shared database, at the same time, inputting data into shared database according to actual situations. Thus, shared database becomes a bridge for mobile campus to obtain different system information in colleges indirectly. After installing the generated mobile campus APK software on the Android client, the login page can be opened Input the student name and password as student roll number, click login,

then the system will detect whether the client networking. If the network is normal, the system will access to remote database for authentication, while caching the access contents to the local database. After login, parents view the attendance details, exam schedule details, exam result details and also view the grade details.

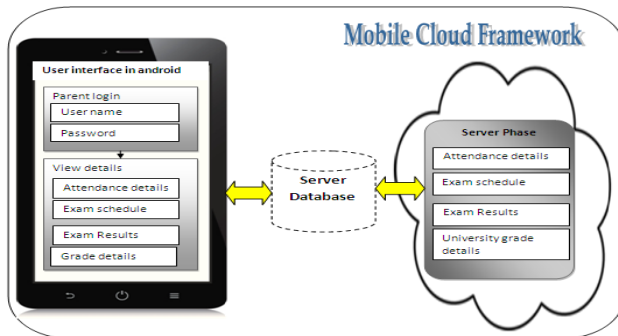
## 2. EXISTING SYSTEM

In a real world scenario, such as college campus, the information is in the form of notice and in web sites. Existing system follows manual work for managing student details. Today it is of the essence to not only use the predictable forms of statement, but also use the new forms such as cell phone technology, for faster and easier communication among parents.

## 3. PROPOSED SYSTEM

The proposed system for college information system is fully an automated one using Wireless Android. In this system, we are using PHP Page for Admin side to maintain the student details. Admin can register the student details and requirements such as attendance, exam details are added into the database. Parents can login to the system as student name and then batch number as password. This a centralized one, by which the data server updates the each and every detail; furthermore the coordination between server and client becomes much easier. Principally the system provides high security for all its data. This college information application includes functionality such as parents can view the details and server can update or delete student information. This information should be provided to parents in a cost efficient mode. And in server side, easily add the details about attendance, exam schedule, exam results and grade details. Server easily updates each and every student's details.

### 3.1 SYSTEM ARCHITECTURE



### 4. IMPLEMENTATION

Admin can login to the System where they can add and update the student details in the database. The database contains student profiles, attendance, internal marks exam schedule and University grades. Parents can login to the system to view the details which are entered by server. Parents only view the details and not have update permissions.

### 5. CONCLUSION

This project entitled “**Android Based Mini ERP System for College Institution**” is designed, keeping in view the day to day problems faced by a college. The main aim in developing this app is to automate all functionalities of a college, with the finest of details about each student. It is efficient because it is developed with the new technology. This application provides appropriate information to users according to the chosen service. By this system the user can view the details anywhere, anytime as per their own convenience. Timely updates of student can be sent to their parents. Attendance marking and report generation becomes easy. This project is successfully implemented with all the features mentioned in system requirements specification In future this system can be implemented to automate most of the educational systems and it can be designed for cross platform.

### REFERENCES

- [1] MohdNazri Ismail, “Development of WAP Based Students Information System in Campus Environment” *International Journal of Computer and Electrical Engineering*, Vol. 1, No. 3, August 2009
- [2] Hu Hongxin, Cui Ming, “Development Scheme of Mobile Campus Information Integration Platform Based on Android”
- [3] Michael Schulze, “CAMPUS NEWS – Artificial Intelligence Methods Combined for an Intelligent Information Network”, University of Koblenz (IEEE Paper)
- [4] Application Fundamentals, <http://developer.android.com/guide/topics/fundamentals.html>
- [5] Campus Application of FH Kiel 1.0 for Android, [http://www.handster.com/campus\\_application\\_of\\_fhkiel.html](http://www.handster.com/campus_application_of_fhkiel.html)
- [6] Mobile App Development, <http://www.Rapids of technologies.com/android-applicationdevelopment.html>.