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Enterprise Resource Planning(ERP)- An Information Frame Work for College Management System

Er.Gajendra Singh[1], Er. Pawan Gupta[2], Saniya Puri[3]

[1,2,3] *Department of Computer Science and Engineering,*
Vedant College of Engineering and Technology,Rajasthan Technical University (India)

ABSTRACT

The main objective of this project is to add mobility and automation to the process of managing student information in an institute. In a real world scenario, such as college campus, the information is in the form of notice, hand-written manual, verbal message, is being spread among the students. Today it is of the essence to not only use the predictable forms of statement, but also new forms such as cell phone technology, for faster and easier communication among the students. The approach of communication is Android. The core idea of this project is to implement android based Mobile Campus application for advancement of institution and educational system .The application will be used by students, teachers and parents. In the previous system, all the information has to view in a hard file, or in website. At the same time while searching any information it is too difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process easier ,secure and less error prone. More efficient information's will be achieved through this system. When sensitive data is stored on the device, apps can ensure that they are stored securely using encryption. Apps also exchange sensitive information with remote servers. The Android platform provides a number of algorithms for encrypting sensitive information.

Keywords: Android , Enterprise Resourse Planning , Mobile technology SmartPhone.

I. 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

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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,formation 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.

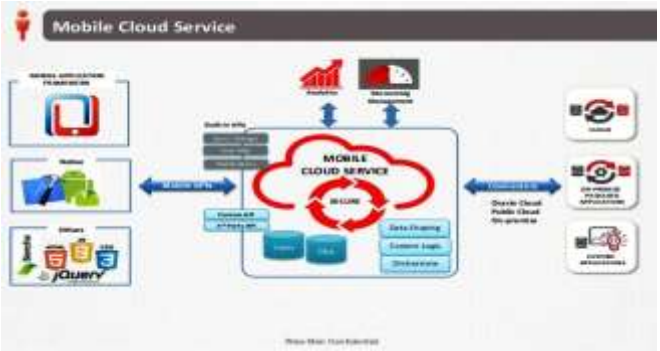

Fig1 . Archicture of Cloud Service

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.

II. 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.

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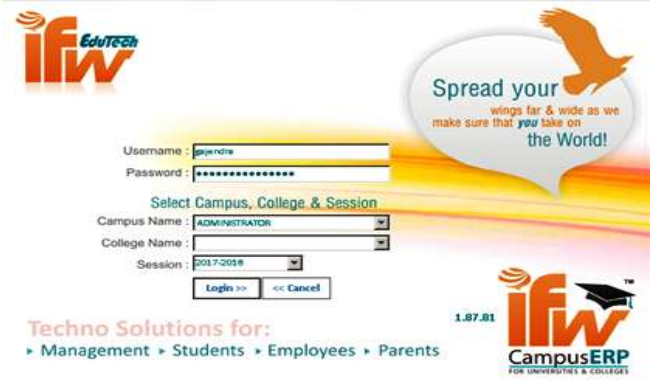

Fig 2- Registration Page

III. 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.

Fig 3 . ERP Module

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.

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SYSTEM ARCHITECTURE

Fig. 4 System Architecture of ERP.

Fig. 5 Home Page

Fig. 6 Employee Module

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IV. 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.

Fig. 7 Student Module

Fig.7 Student Module

V. CONCLUSION

This project entitled "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.

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REFRENCES

1. ERP Forum. ERP no Saishin Doukou (The Latest Trend of ERP, in Japanese, Annual Research Report); Impress Business Media: Tokyo, Japan, 2014.
2. Iizuka, K.; Okawada, T.; Tsubone, M.; Iizuka, Y.; Suematsu, C. Issues about Inter-organizational Process Flow Adjustment. In Enterprise and Organizational Modeling and Simulation; Springer: Heidelberg, Germany, 2013; pp. 24–41.
3. Albashrawi, M.; Motiwalla, L. Adoption of Mobile ERP in Traditional-ERP Organizations: The Effect of Computer Self-Efficacy. In Proceedings of the Americas Conference on Information Systems (AMCIS), San Diego, CA, USA, 11–14 August 2016.
4. Nawaz, S.S.; Pulasinghe, K.; Thelijjagoda, S. Mobile Office and Its Implications for ERP Systems: A Review of Literature. Int. J. Adv. Res. Comput. Sci. Softw. Eng. **2015**, 5, 13–16.
5. ERP Forum. ERP no Saishin Doukou (The Latest Trend of ERP, in Japanese, Annual Research Report); Impress Business Media: Tokyo, Japan, 2013.
6. Iizuka, K.; Iizuka, Y.; Suematsu, C. Consideration of the Business Process Re-Engineering Effect: Business Flow Notation Structure and the Management Perspective, Business Process Management Workshops, Volume 256 of the Series Lecture Notes in Business Information Processing; Springer International Publishing: Cham, Switzerland, 2016; pp. 323–333.