P.I.E.T College Book (Caesar)

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ABSTRACT

This Project is about bringing the faculties and students on a single platform. This application will give college the power to share and make the college more open and connected. The main objective of this project is to add mobility and to computerize the entire process of managing student information in an institute. These applications help the institute to move forward quickly, fulfill their vision and accomplish their goals. This Android application will manage student details on smartphone and will keep them updated about latest events in college. The application will be used by students, parents, teachers and outside users. The utilities provided by the application are- student details, news feed, departmental news feed, attendance, marks, training and placement updates, college magazine in pdf formats, message, and view academic calendar. The proposed project will be implemented in applications such as online study material, notices, academic calendar and online reminders of examination, performance record, and using Android applications. This system gives a prior intimation to Student as soon as their attendance goes below the specified attendance.

Keywords-- Android, students details, news feed, training and placement updates, smart phone etc.

I. INTRODUCTION

A Social Network is broadly defined as a social structure of interactions between individuals, which are directly or indirectly based on a common thread of interest. More clearly, it represents network which connects people or group of people. Ongoing advances in the Internet provide comprehensive digital traces of activism, interactions, and transactions. With the beginning of online communication, such connectivity and networking became very easy. Organizations traditionally use website for media promotions. Social media empowered consumers with opulence of information at finger tips, roping social media to make decisions. From the organization perspective, this interactive nature of social media provides an important data regarding customer preferences and behavior from the direct and immediate feedback. Variations in Information Technology (IT) allow college to make use of databases and applications thus, making the accessing of records centralized [6]. Online-based applications are an invention to the traditional- transaction processing systems. Thus, most college switch to the online system because of its efficiency to attain, process, store and retrieve information from the Internet. The P.I.E.T College Book (CAESAR) would be a new way of record management and transaction processing that would achieve great efficiency on processing information. It would be a great help to the administrative and academic people and students in updating, retrieving and generating student data.

Nowadays, smartphones have become a way of life for students especially in higher education. Computers are now reinstated by smartphones that can be fit into pocket and can be carried anywhere. The rapid advancement in mobile technology have led to faster research and development for organizations and has also led to product upgrades moving at a faster rate [3]. The developed android application will be used by teachers, students, ex-students, parents and the administrator who maintains the system. The students will use the application to enter their personal and academic details, post queries regarding a particular subject on the respective discussion forum and for viewing notices broadcasted by the hod/teachers/admin. The teachers can verify the details entered by the each students and after the placements, the teachers can enter the placement details for each student. With development of this Android application the student elected to use mobile devices as technology supported educational tool. This system is designed because notes dictation in the class is difficult. Timely updates to
parent are not possible. With this system teacher can upload notes, time tables, attendance details, assignment on server and broadcast it to the registered mobile numbers so that it is easily accessible to student by their own smart phone.

II. ENHANCEMENT OF EXISTING SYSTEM

An Android application similar to P.I.E.T College Book (CAESAR) named Student Diary already exists in the market. YCCE (Yashwantrao Chavan College of Engineering) uses Student Diary which is an academic oriented Android application. It is an Android based application used for viewing student attendance, exam result, internal marks etc. Other than these functionalities, the P.I.E.T College Book provides are:

- **Department and College news feed**
  
  All the important news and notices about various activities, workshops, events etc. can be viewed under the news feed section.

- **Training and placement information**
  
  The notices about upcoming campus and the number of students can be updated by the training and placement officer or any other staff members.

- **College and Department Magazine**
  
  The college and department magazines that are published can be downloaded in pdf format by every student as well as staff members.

- **Messaging between student and faculty**
  
  Through the messaging feature a student will be able to communicate with the faculties of that department to which that particular student belongs.

III. LITERATURE REVIEW

Shubham Chavan and others proposed an online application for automation of Training and Placement cell of SRES College. The key feature of this system is to automatically generate and send emails. Students will use this system to read important announcements and to see the results of assessments recorded in the system. Students can directly apply for the company using the apply function which will be provided by the system. The project will helpful in faster management of the placement related activities in the college campus [3].

Biennial National Conference on Nascent Technologies and others proposed the application where student can get the information such as displaying notices, results, attendance timetables, etc. With the help of this application, not only students can access the information from a remote place but also can reduce the inconvenience of travelling all the way to the institute [4].

Manasi Kawathekar and others proposed an application to help student to access information such as results, attendance, timetables, etc. With the help of this application, students can access the information from a remote place as well as can avoid the inconvenience of travelling all the way to the institute to get the same information [6].

K. S. Kulkarni and others proposed a project for computer science and engineering department; main objective of this is to maintain the “RESULT ANALYSIS, PROGRESS REPORT AND TIME TABLE GENERATION”. This proposed system gives permission to the students to view their result details and Time Table. The project is made more user-friendly so that anyone with minimum computer knowledge can access the system [1].

IV. PROPOSED SYSTEM

The objective of this new system is to computerize the current procedure of managing and controlling the information about the student details and to reduce the work load of managing paper documents for every announcement and notices. The proposed system will keep the information on a central server while allowing users to access that information from their own smart phone through the installed android application. There will modify database on the server and an improved user interface on each client machine i.e. on the CAESAR app installed on the user smart phone. This project provides a way of viewing the academic results as well as to view any kind of important notifications or news about the college regarding curriculum, sports etc. It would be a great help to the administrative as well as to the academic personnel in updating, retrieving and generating student data.

The developed application will be used by students, teachers and the administrator. The utilities provided this application are:

**REGISTRATION AND LOGIN:**

This android application will have registration and login process in order to authenticate a user. Anyone can create a user account. A user account provides you access to functionality of this application. When creating an individual user account, there is only a minimal amount of information that you must enter. Basically cryptography is used for the multi-party data or the data that is distributed over the different sites and one party can share the data of other party [2]. Once user has done with the registration process he/she can access the application by entering the user name and password.

**NEWS FEED:**

Notices can be posted by teachers from their respective login and can be viewed on news feed section of the application with title for a notice associated with it. The notices for a particular class will be posted on the departmental news feed section.

**ATTENDANCE:**

Subject teachers for each semester are mandatory to enter the attendance details of student’s weekly/monthly.
The students can make use of the application to know their attendance which will be calculated on quarterly basic so that they can maintain their attendance record.

**MARKS:**

The students will use the application to retrieve. The students will use the application to retrieve information about their academic details like Common Assessment Test 1 (CAT 1), Common Assessment Test 1 (CAT 2), and Sessional marks.

**TRAINING AND PLACEMENT:**

Training and Placement Cell is an important part of any educational organization in which most of the work till now is being done in manual way. The main aim is to automate the Training and Placement cell. In this TPO will feed the criteria and the notification will be post on the wall. The application also provides facility of maintaining details of students along with the placement records of the college.

**MAGAZINE:**

Magazine will consist of yearly college magazine as well as departmental magazine in pdf format.

**MESSAGE:**

Through this feature a student can message to a faculty of the department to which the student belongs.

V. **SYSTEM DESIGN**

A. **BLOCK DIAGRAM**

This deals with the system block diagram and the data flow diagram of the P.I.E.T College Book (CAESAR).

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**STUDENT:**

```
Login -> Start -> Register

Input username and password

Info Correct?

No

Success?

Yes

No

Students Rights:
View Personal details
View Likes posts and
Access other utilities

Details verified?

Yes

Wait until verified

No

End -> Go to Login

Start

Fill the registration form

Register

Yes

Login
```

Figure 3. Student Flowchart

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VI. **CONCLUSION**

In the existing system that is, the one we are using in our college campus, maximum work goes manually. In this proposed work we have presented the design and implementation of a mobile application for sharing the college/campus activities. By this application student can get detailed information and stay updated.

VII. **FUTURE SCOPE**

- Giving access to parents to view their wards academic details
- Attendance through the application itself

REFERENCES


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