

Mobile Based Event Driven Management System

Mayur Mane, Jayanand Raghuwanshi, Varun Soochik, Prashant More

Abstract- With the changing communication services, it's all on the user to choose what way of communication is suitable to communicate with different set of devices. For this an up-to date user presence is required for an essential condition for synchronized communications. Smartphone's are a rich resource of framework information; though, this information is presently not applied by the existing over-the-top communication systems to completely change user presence position in agreement with his/her situation and typical daily activities. Our proposed system will be available for all college students who have an android enabled smart phone. Using our system students will be able to use features like sending text message and file between other students, view notifications sent by faculty members or HOD or Principal. Students will also be able to clear their doubts by posting their queries on the forum and get their doubts cleared. A web portal is made available for the faculty and administration to post/send their notification and answer for the particular query.

Keywords- Android, discussion forum, communication, notification, management, training and placement.

I. INTRODUCTION

Nowadays smart phone plays an important role in communication and knowledge sharing. Based on this, we are proposing a system which will satisfy all the needs of an educational institute from student's point of view. A student requires a communication medium to communicate with the teachers and also with the students. Students will be able to get there queries and problems solved on the forum. The queries will be answered by the respective teacher as well as students. Making it easier to manage the training and placement cell by adding training and placement management system module in the project. Delivering notices to every student having smart phone using event notifier module. For faculty and administration we have made a web portal to post/send their notifications and solution to the queries.

Manuscript received March 2, 2014

Varun V Soochik, Computer Engineering, Pimpri Chinchwad College Of Engineering, Pune, India, 8446870039, (e-mail: varun.soochik13@gmail.com).

Jayanand S Raghuwanshi, Computer Engineering, Pimpri Chinchwad College Of Engineering, Pune, India, 7385607900, (e-mail: jay861993@gmail.com).

Mayur D Mane, Computer Engineering, Pimpri Chinchwad College Of Engineering, Pune, India, 9890292924, (e-mail: mayurmane1990@gmail.com).

Prashant More, Computer Engineering, Pimpri Chinchwad College Of Engineering, Pune, India, 9028609931, (e-mail: prashantmore209@gmail.com).

Modules:

Communication and notification system:

Here in communication module we have divided the module into simplex and duplex communication. Simplex communication for notification system and duplex communication for messaging and file transfer.

Training and placement management system:

In training and management system we are maintaining the database of students that can be used for sorting the students according to their criteria and notifying the students of upcoming job opportunities.

Discussion forum:

Students can ask the queries by posting it to the specific SIG group. The faculty or student can answer to the query.

So we are designing and deploying a smart college system in regard with the idea of unified wireless communication and forum/blogs of perspective interest, similar with the college ERP.

II. LITERATURE SURVEY:

The number of Smartphone users and cell phone applications are increasing swiftly along with Smartphone's are likely to contain PC-like functionality, but the hardware components like CPUs, memory and batteries are still limited to only smart phones. For better resource management, researchers are proposing cloud for mobile devices. This solution which was only limited to desktops is now taking place in mobile industry for backing and restoring data. There are several challenges for mobile devices, mainly due to the overabundance of devices, vendors, operating systems and versions available in the mobile market. We propose a abstract design of Android application as a Server Platform, which helps several user to access data and also backup and restore their data via network, this helps in reducing the effort of the users in saving and restoring private records. Also we can use the feature of sharing the information over a group of selected persons. This can be useful in many circumstances. Also we have studied and used facebook's edge rank algorithm. Edge Rank is the Facebook algorithm that decides which stories appear in each user's newsfeed. The algorithm hides boring stories, so if your story doesn't score well, no one will see it. The first thing someone sees when they log into Facebook is the newsfeed. This is a summary of what's been happening recently among their friends on Facebook. Every action their friends take is a potential newsfeed story. Facebook calls these actions Edges. That means whenever a friend posts a status update, comments on another status update, tags a photo, joins a fan page, or RSVPs to an event it generates an Edge, and a story about that Edge might show up in the user's personal newsfeed. It'd be completely overwhelming if the

newsfeed showed all of the possible stories from your friends. So Facebook created an algorithm to predict how interesting each story will be to each user. Facebook calls this algorithm Edge Rank because it ranks the edges. Then they filter each user's newsfeed to only show the top-ranked stories for that particular user.

III. EXISTING SYSTEM:

Communication has largely been a PC-based addiction. But when it comes to communication over cell phones, the alternatives are costly like GPRS-based messengers or SMS chat. More than one user can't communicate at a time.

- 1) There is individual mobile application for message and file transfer.
- 2) Discussion forum is available for Web user.
- 3) Training And Placement cell activity are manual.
- 4) Notification and schedule system are manual.

IV. PROPOSED SYSTEM:

Our Proposed System will be available for all college students who have an android enabled smart phone. Using our system students will be able to use features like sending text message and file between other students, view notifications sent by faculty members or HOD or Principal. Students will also be able to clear their doubts by posting their queries on the forum and get their doubts cleared. A Web portal is made available for the faculty and administration to post/send their notification and answer for the particular query.

V. SYSTEM FEATURE:

- Notice Generation will help the management to generate notice and send to students.
- Communication system will help the student and management to communicate with each other Data synchronizer will retrieve data from the server which will keep the user updated.
- Discussion forum will clear the doubts of the students by interacting the query with either other students or the respective staff.
- Training and placement management system will keep the student updated and notified about companies visiting the campus.
- T & P will also schedule and register students for the campus drive and help T & P officer for analysis of the results.

VI. SYSTEM ARCHITECTURE:

The system architecture can be divided into following parts:

Communication Module:

• Simplex Communication- Notifier System By using this module administrator (Principal, HOD, faculty, registrar) can create a notice regarding to academics, extracurricular activities and any particular notice addressed to specific student. It can also handle various notifications coming from forums and T and P Department. Also stores the all notices on server and make the backup of files [4].

- Duplex Communication- This module handles the establishment of connection and transfer of data between nodes by means of wireless networks, such as campus WIFI, mobile data and WIFI enabled devices [2] [4].

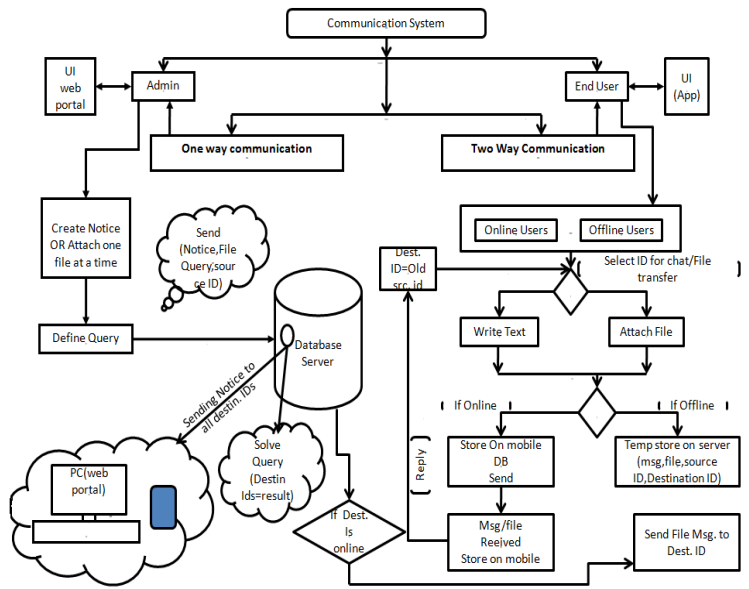


Figure 1

Discussion Forum:

Students can post their queries on the discussion forum and they can address these queries to particular faculty, students, SIGs so that they can answer these queries and sender of the query can be notified when that query is answered [1].

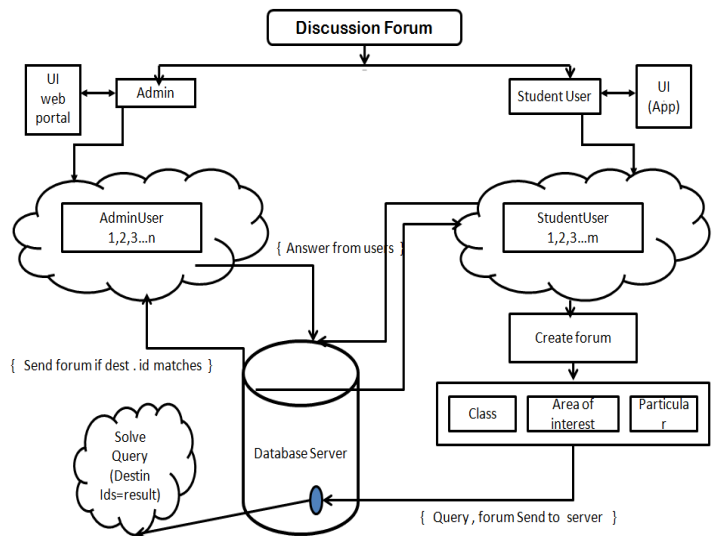


Figure 2

Training and Placement Cell Management:

We are proposing to automate the process of training and placement cell. Administrator (T & P Officer) can assemble information from students regarding their academics, according to this information; students and companies both are notified about which students are eligible for the scheduled placement drives.

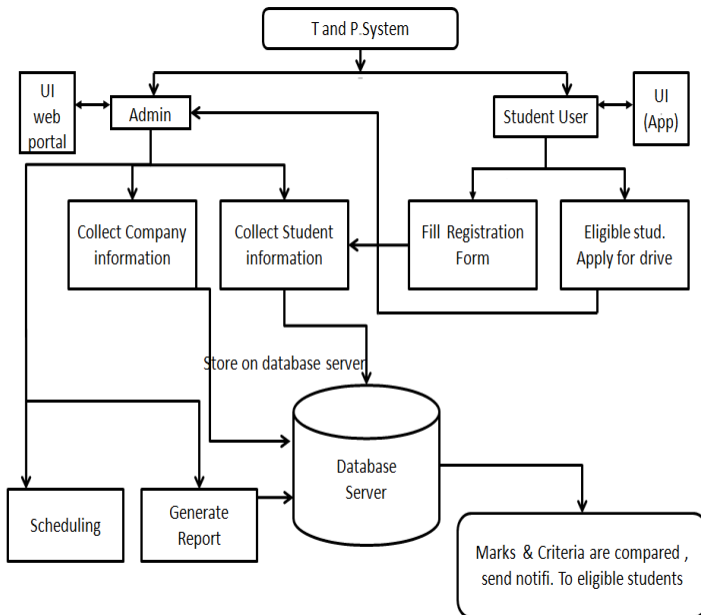


FIGURE 3



Varun V Soochik
Pimpri Chinchwad College Of Engg
B.E Computer Engg



Prashant P. More
Pimpri Chinchwad College of Engineering
B.E. Computer Engineering



Mayur D Mane
Pimpri Chinchwad College of Engg
B.E Computer Engg



Jayanand S Raghuwanshi
Pimpri Chinchwad College of Engg
B.E. Computer Engg

VII. CONCLUSION:

We Concluded by developing android application which is synchronized with the College ERP system developed by us. All the Content of the ERP can be viewed, edited and we can send messages. This system and application can be extended to various institutes and domains.

REFERENCES:

- [1] Edge rank optimization algorithm link: www.edgerank.net
- [2] Majid khabbazian, ian F. blake fellow, ieee, vijay K. bhargava, local broadcast algorithms in wireless Ad hoc networks: Reducing the number of transmissions fellow, ieee, 2012
- [3] Aleksandar Antonic, Inferring Presence Status on Smart phones: The Big Data Perspective, Domagoj Jakobovic, Ivana Podnar, Zarko University of Zagreb Faculty of Electrical Engineering and Computing Zagreb, Croatia, 2013
- [4] Android Based Server For Sharing Backup Restoring DATA Journal of Data Mining and Knowledge Discovery ISSN: 22296662 and ISSN: 22296670, Volume 3, Issue 1, 2012