

AUTOMATED DIGITAL NOTICE BOARD

SHANTAM MALGAONKAR¹, SANKET CHAVAN², ASHISH BHOSALE³, MAYANK MANGAL⁴

Computer Department, Alamuri Ratnamala Institute Of Engineering And Technology, Shahapur, Thane

ABSTRACT : Our aim to replace the traditional notice board with Digital notice board. Now no need to maintain numbers of account for sharing information, exchange of notes and all college related notifications, now it can be accessible where ever you are and whenever you want just on a single click on your android phone. Just install “Automated Digital notice board App” on your android phone and you can access all notices of your college. We are developing for teachers add important notes, assignments dates, submission and for students add and download experiments, assignments, question paper related to different subjects and notes in an simple and efficient manner. This project includes major work entities: add notifications, add staff related record, and add student record which is handled by Admin. The Admin can add, eliminate, and change them simultaneously on the online system. Then these notifications can be viewed or seen by students of college.

EXISTING SYSTEM :

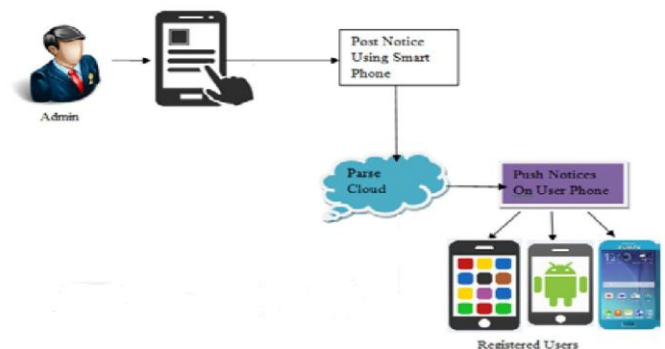
The existing system involves that student have to visit the notice board and check the marks. The marks are given as mark sheet which is in paper format. The results have to be seen directly in the college and the students will not be notified of the result date and time. Difficulty to generate the reports. plenty of paper work and also misuse of papers. thus Student cannot get notices on time. Ones the notice presented then tough to renovate it However it was Android who brought push technologies to a whole new level. Before Android had been widely criticized for not allowing third party applications to run in background. This helped to save constrained resources (mainly battery life) of a phone but on the other hand resulted in poor user experience. Applications like IM clients usually sit in background and only pop up when they have something interesting available. This was not possible with past versions of the Android operating system. The answer was Android Push Notification Service. Today every major mobile platform offers similar system. It is

C2DM for Android, MPNS for Windows Phone 7, BlackBerry Push Service for BlackBerry, etc.

PROPOSED SYSTEM :

- Now a day’s colleges are using Conventional Paper based Notice Board so here we are thinking more advanced system of Android Based Application. The users can get the notices through Digital Notice Board from anywhere in the college campus. Notice board are mostly used in school to large organization to convey the message. Conventional notice board required lots of paper work and also wastage of papers.
- Our aim to replace the traditional notice board with Digital notice board. Now no need to maintain numbers of account for sharing information, exchange of notes and all college related announcement, now it will be accessible anywhere anytime just on a single click on your android device. Just install “Digital Notice Board App” on your android device and you can access all notices of your college. We have establishing for staff add notes, experiments dates, submission and for students upload and download tutorials, experiments, question paper and notes in an easy and efficient manner. The app provides an interactive GUI for this system.
- This project includes leading activity entities: add notices, add staff record, and add student record which is managed by Admin. The Admin can add, delete, and update them at the same time on the online system. These can then be checked by the students.

BLOCK DIAGRAM



RELATED WORK

In Push Notification Service (PNs) is the key part of the iOS push notification aspect. It receives notifications from third party providers and routes them to target devices over a persistent long-lived connection (Fig. 3). The movement of a notification is one-way; it is always provider→PNs→device, never the other way round. When a device receives a notification for an application which is not currently running, the androids notifies the user that the application has new data. Both device-to-PNs and provider-to-PNs connections are certified and encrypted. Connection trust is established through TLS peer-to-peer authentication .A device begin TLS connection with PNs, which rebound its server certificate. The device validates the certificate and then sends its own device certificate to APNs, which validates that certificate. Similar negotiation procedure is used when a provider connects to PNs

Actual Images Of the Prototypes :

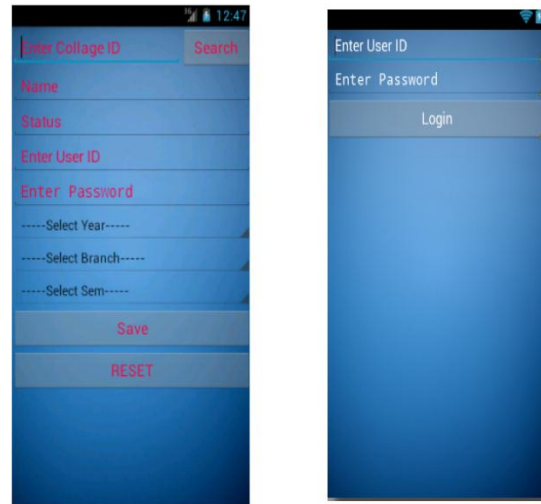


Fig 1. Registration pages

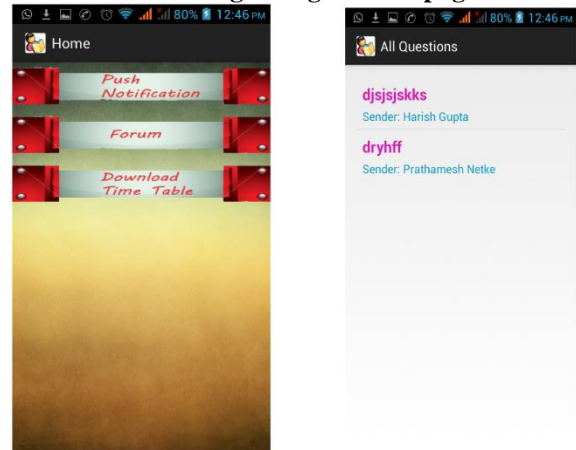


Fig 2. Home Window and Forum

ADVANTAGES OF AUTOMATED DIGITAL NOTICE BOARD :

- The protection of data from unauthorized is possible.
- This app is time preserving and user friendly.
- Student, Staff is getting the notifications on time.
- Reduce paper work
- Easy to update
- Paper free campus

MODULES :

- ADMIN:
 - Login to the system..
 - View all notifications details
 - Approve or Reject the notifications
- FACULTY:
 - Register with system.
 - Login to system
 - Add notifications for student and upload documents
 - Add questions answers in forum
- STUDENT:
 - Register with system
 - Login to system.
 - View All approved notifications
 - download the timetable
 - Ask question/answers in forum

CONCLUSION :

In this paper we presented our solution to a unified platform for delivering push notifications to mobile devices. We focused on two aspects: Simplicity of the interface. We decided for restful Web services, which are simple enough to be consumed even by embedded systems We designed the core architecture of the system. In the future we would like to focus on the administrative part of the system (creating new topics, subscribing to topics, reporting) so that it will ready for real-life deployment To create a real time application oriented project which will be helpful in our own college that will also be showing a better technological development as we are qualified Engineering students. To stop running back of postal letters for the report cards.

REFERENCES :

- 1.M. F. Bulut, Y. S. Yilmaz, and M.Demirbas, "Crowdsourcing locationbased queries," in PerCom Workshops, 2011, pp.513–518.
- 2.M. F. Bulut, Y. S. Yilmaz, M. Demirbas, N. Ferhatosmanoglu, and H.Ferhatosmanoglu,"Lineking Crowd sourced line wait-time estimation using smartphones," inMobiCASE, 2012, pp. 205–224.
- 3.B. I. Aydin, Y. S. Yilmaz, M. F. Bulut, and M. Demirbas,"Crowdreply: A crowdsourced multiple choice question answering system," ACM/IEEE IPSN '13 3rd International Workshop on Mobile Sensing: The Future,
- 4.Sanz, I. Santos, C. Laorden, X. Ugarte-Pedrero and P.G. Bringas, "On the automatic categorisation of android applications", Proceedings of the Consumer Communications and Networking Conference, (2012).
- 5.Fernandes, Y. N. Kok and H. K. Boon, "Development of a convenient wireless control of an autonomous vehicle using apple iOS SDK", Proceedings of the IEEE Region 10 Conference on TENCON, (2011).
- 6.brought to you by Big Sensor Data, 2013.