

WHY CONVENTIONAL?  
GO DIGITAL GET  
CONNECTED

# Digital Notice Board for Professional College

Many state-of the art and cutting edge universities in the world rely on wooden notice board hanging on the wall to display announcements. The over reliance of this practice in a university is still not enough to pass relevant information around as many problems are encountered. We consider the case study of professional Colleges, where information is a vital key for knowing the updates of the campus. The major strength of the Digital Notice Board developed, which is an online Android application is that, its usability is fully capable of passing relevant notices and announcements, and keeping the users updated from time to time. The user is kept updated each time the Digital Notice Board is uploaded through a notification. Also the users can view the notices anytime and from anywhere by opening the DNB which is available on Google Play Store to download and this makes our project highly efficient and effective.

## SIMPLE. INTRACTIVE. CONVENIENT

This Android app exploits the user friendliness in terms of user interaction and gives you better experience of viewing notices. You can access all the notices at one place on your hand.

## ANYTIME ANYWHERE

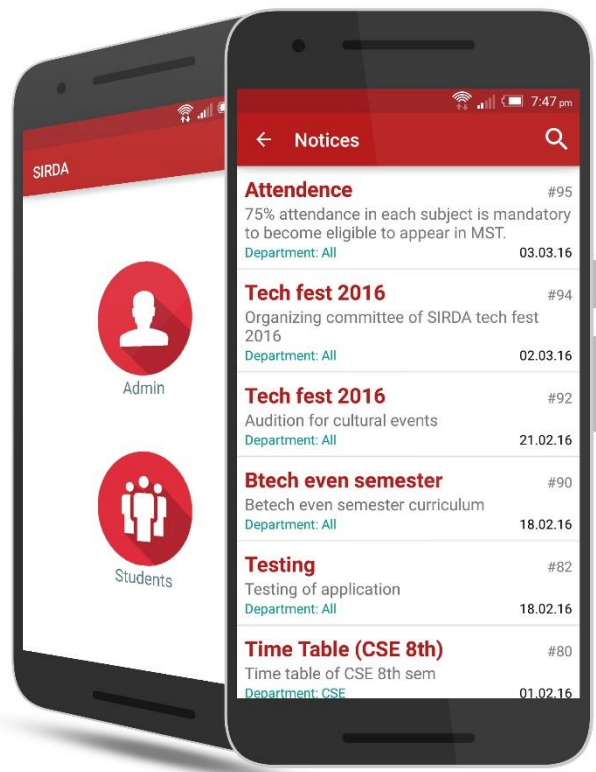
Now you can stay in touch with your college seamlessly. Through this app you can access college notices 24x7 hours that means it has greater accessibility.

## GCM INTEGRATION

From this app you will never miss even a single new notice. How this possible? Google Cloud Messaging(GCM) API makes this possible. It gives us the power to send notification to every user whenever admin adds new notice.

## SUGGESTIONS

If you are passionate about to make things better,



if you want that your voice should be heard, so that to make the system even better. First step in that journey is to approach your thoughts. This app let you directly give your suggestion or complaints on the way.

## EFFICIENT

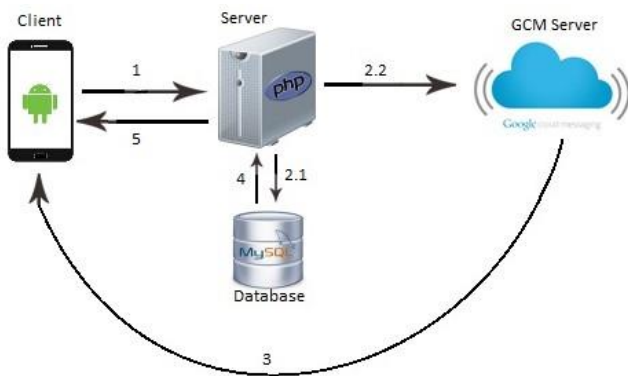
No more rush near Notice Board, each user has their own Virtual Notice Board. No more lack of space on Notice Board, there is greater storage space in digital world. No headache about old notices, old notices are still accessible through app, that means it has greater availability. It is also echo friendly.

## TIME CONSUMPTION

Time is the most valuable resource that we all have. By considering all the above points, we can say that Digital Notice board consumes less time and effort as compared to the traditional one.

## WORKING

The system heavily relies on Client-Server Model. Below figure illustrate of working of DNB



1. Admin section of this app let the administrator to update/post new notice, that will be transferred to PHP server (somewhere on internet).

2.1. PHP server sends all information to database where it will save so that it can be retrieved later.

2.2. At the same time PHP Server send some information (like title & description) to GCM Server.

3. GCM server send that information as a Notification regarding notice to all the registered devices.

4. When user click on notification or open Student section of app, the request send to PHP server and data about the notice is fetched form database.

5. Data goes to client (Android Device) and presented as notices.

## CHALLENGES

Lots of challenges are out there, we have to combat with various situations comes through our journey and give best of ours that really valuable to the end users. Sustain the reliability is major challenge. Make this application in use is also a challenge. Override the existing system with this digital system is also a major step for both the management and developers. We are always exited to hear from you, and together we'll make it even better. We've never compromised with quality and never will be either in terms of design or service. Making this application world class is our first priority. Making this application in such a manner so that it fulfils the needs of most universities. One thought that come in every mind at first sight is that what about the student who don't have Android device. We have found an elegant solution of this problem: building website.

## WEB VERSION

The Web Version of this android app is available at [www.sirdanb.in](http://www.sirdanb.in). Now you need not an Android Device to stay in touch with college, just open the website and there you are. It provides the functionality for both B.Tech and Diploma. This website is highly responsive means it supports wide range of devices like Desktop, Tablet, Mobile etc.



## PERFORMANCE ANALYSIS AND DISCUSSION

ID	DESCRIPTION	EXISTING WOODEN NOTICE BOARD	DEVELOPED DIGITAL NOTICE BOARD
1.	Location	On wooden boards.	On computer systems or cell phones.
2.	Time consumption	Consumes a lot of time.	Consumes less time.
3.	Storage	Limited storage space.	Huge database used for storage purpose.
4.	Reliability	Less reliable.	Highly reliable.
5.	Efficiency	Not so efficient.	Highly efficient as keeps updating through notifications.
6.	Accessibility	Cannot be accessible outside physical location.	Accessible from anywhere and at any time.
7.	Availability	Once notices removed will no more be available.	Any notice is available at any point of time as stored in database for longer period of time.

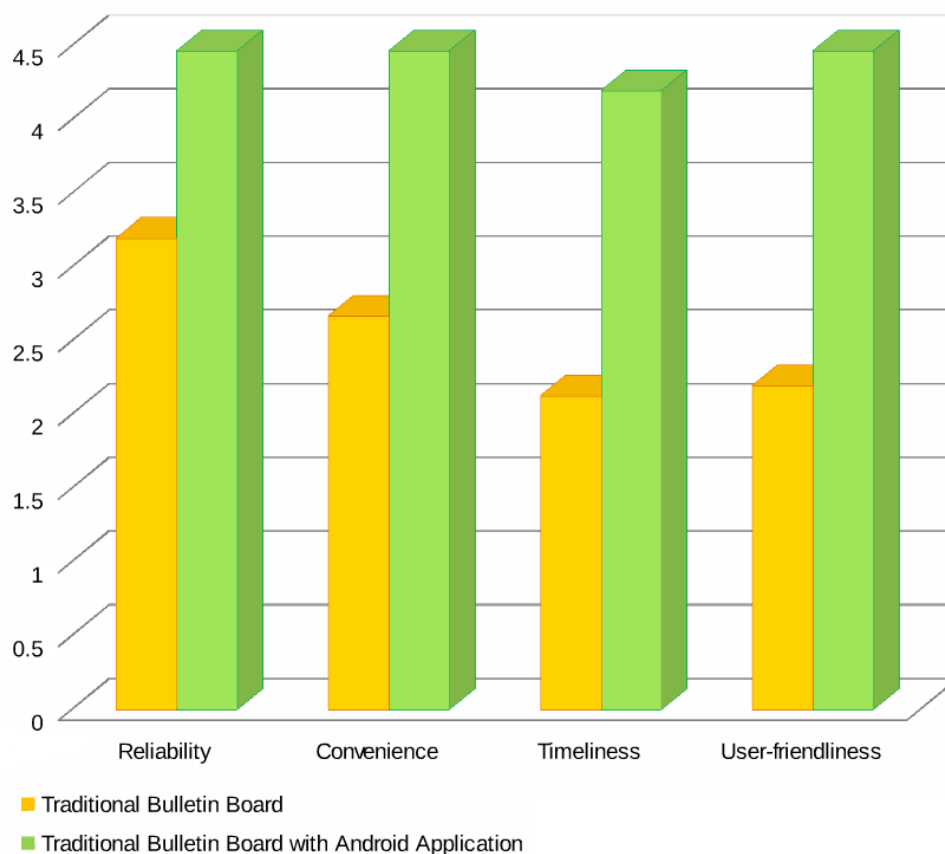


Fig.: Efficiency graph

**PLATFORM :** Android

**FRONT END :** Java

**BACK END :** Php, MySQL

### TECHNOLOGY USED

XML – designing

Advance Java – Android Programming

PHP – Server Side Scripting

MySQL – Database

JSON – lightweight data-interchange

GCM API – Broadcast Notifications

### TOOLS & SERVICES USED

Android Studio(Google) – IDE

Genymotion Emulator – Testing tool

XAMPP Server – local hosting

fastwebonline.com – Web hosting service

FileZilla – Free FTP Solution

Google Play Store – Android app distribution platform

### REQUIREMENTS

Android Device (4.0 or above)

Internet Connection

**PRICE :** Free

**AVAILABILITY :** Google Play Store (named 'Sirda')  
[www.sirdanb.in](http://www.sirdanb.in)

### PROJECT MEMBERS:



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