

E-Notifier: Transport Information Services in Colleges and Exploring Mobile Notification

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Abstract: In this paper we introduced E-notifier application in which students can view daily timetable through a widget & get important notices send by the server. The widget displays current lectures & by clicking on the widget, one can view entire days timetable. The important notices are displayed on the notification panel as soon as the user is connected to the internet. The basic architecture of this paper depends on two main areas client side & server side. Client: 1. As the user downloads the application he selects his branch & year to proceed. 2. The client side has mobile application that fetches the required time table details of particular branch & its correspond year using My SQL. 3. The entire client side Application design using Java, android and SQLite. Server:-On the server side, the admin can log in to add new notifications & update timetable that is to be broadcasted. The admin will have the authority to access, add and edit any information on the server. The server side coding is done in PHP language.

Keywords: E-notifier, SQLite, widget, notification panel.

I. INTRODUCTION

Since mobile phones are popular with students and can be used in all walks of life, we have attempted to create an application that the students can easily access through their smartphones. Although there are many mobile platforms available in the market these days, Android OS is the most user-friendly and programmer friendly platform. Android is an Operating System supporting a large number of applications in smart phones. These applications make life more comfortable and advanced for the users. One such application that we are discussing here in the paper is the Academic Scheduler. This application mainly aims to minimize the difficulties that the students face in managing and planning their academic life. The user of this application will be the student itself and should have the application installed on the smart phone/android device. Our project is an efficient and user friendly Android mobile application for notifying timetables and important notices. The application will be installed on the user's smart phone. This System allow admin to send important documents in pdf format such as exam time table, question bank etc. and also helps admin to inform students about the events that college is going to organize. In his application student can also registered with their name, branch, and year and with the roll number. If the student wants to see their current lecture then they can see it on the home screen widget, and if they wish to view the timetable of entire week they can see it through this application. The application can be installed on any device that meets the system requirements of the application. The students can easily install the application using android devices having operating system of more than 4.0v.

II. PROPOSED SYSTEM

For implementation of proposed system, we must require Android device that supports operating system of v4.0 or

more. User should know the basic knowledge of internet and android applications. Three-tier architecture is used for successful communication between user and admin. On client side there should not mobile network problem.

III. RELATED WORK

1] News and Weather Application in Android Phones:

The existing systems are separate applications for the weather and the near places which give the rough ideas about locations, streets, cities without providing a particular search options. In the near places the user is not able to get connected to particular customized search for certain places like the schools, parks, shops, etc in the certain areas. The live updates of weather with highly animated effects are not seen in the existing system. The existing systems are very costly due to use of sensors. As well the updated reports of the weather of all cities is not provided.

2] Weather Monitoring GPS (Volume 5, Issue 3, March 2015 ISSN: 2277 128X International Journal of Advanced Research in Computer Science and Software Engineering):

PeWemos uses sensors to get the information related to the climate for various places and thus provided the updates to the users. The Google maps also provide rough idea about certain locations to the users. In today's world, mobile phones have become an inseparable part of our lives. Mobile Equipment's applications help the users in every possible ways providing interactive environment for the user to ease his life by providing comfort. Different mobile device have different OS. Android smartphones have gained higher market in the 21st century. Android is open source and hence the developers can make wonders in developing various applications for different interesting and useful purposes.

3] Student Attendance Tracker System in Android (International Journal for Engineering Applications and Technology):

Student Information Tracking System is an Android application to manage student attendance on mobile. In many colleges teachers use to take attendance manually. Main objective of this project is to add mobility and automation in the existing attendance process. This system helps teachers to take attendance through mobile and also keep in touch with student in some aspect. This System allow teachers to take attendance, edit attendance, view student's bunks, send important documents in pdf format such as exam time table, question bank etc. and also helps teachers to inform students about the events that college is going to organize.

4] Android Based Academic Scheduler (Volume 5, Issue 3, March 2015 ISSN: 2277 128X International Journal of Advanced Research in Computer Science and Software Engineering):

In this paper, we have attempted to create an application which will help students to avoid these mistakes. Academic Scheduler can record all the upcoming lectures, assignments, projects, exams, journals, etc. Apart from this, the application also helps the students to create and share notes that were given by professors. This paper introduces system concept and design principles of Academic Scheduler with emphasis on modular implementation of this android application.

5] m-Indicator – Mumbai:

M-indicator added bus timings, auto rickshaw and taxi fare charts, and other services. The app was launched on Android, iOS and Windows-enabled phones. M-indicator packs in a wealth of information. There are contact numbers of emergency medical services (a doctor who used the app gave it to them); it shows you picnic spots around the city arranged by distance; it has movie listings, job postings among other information. The new update will add Monorail and Metro timings, along with BMC alerts. Even government authorities approached him to use app send alerts for mega blocks, emergencies and so on.

IV. SYSTEM ARCHITECTURE

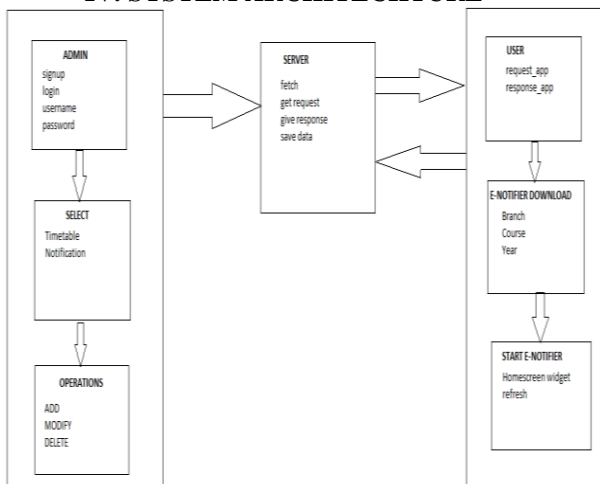


fig. Architecture of e-notifier

V. IMPLEMENTATION DETAIL

- Admin:
 - The admin is authorized to feed the desired data on the server.
 - Data is filled according to the branch, course and year.
 - Only admin is allowed to add, modify and delete the data on the server.
- Server:
 - The server is the data warehouse of this system.
 - It contains all the data in most organized manner.
 - It is responsible for transmission of data between the user and the system.
 - The server verifies the requests sent by the user and sends response to the user.
- User:
 - The user can only view the data sent by the system.
 - The user can download the application, then enter his branch, course and year and submits the data to the server.
 - Data related to his branch, course and year are sent to the user's application.
 - Now the user can receive all the data and notifications about his related branch, course and year only.

VI. SCREENSHOTS

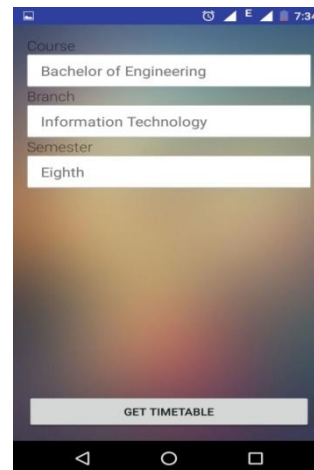


Fig.1. Registration page

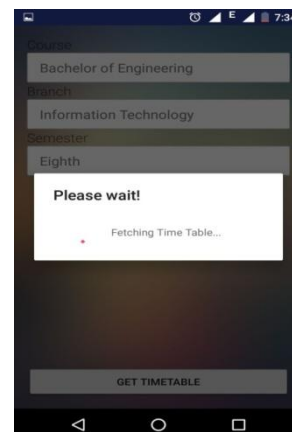


Fig.2. fetching timetable from server database



Fig.3. display timetable

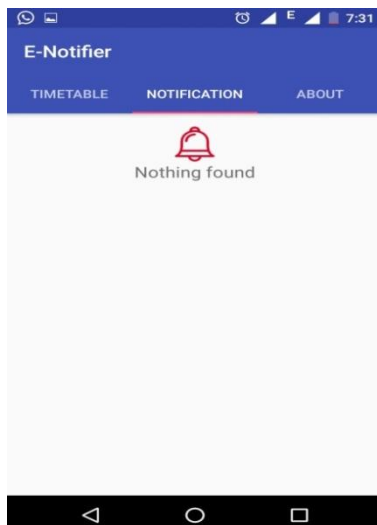


Fig.4. show notifications

VII. ADVANTAGES

- This application provides all important data and notifications to large number of students at a time.
- Reduces the efforts on staff for providing manual notes.
- It provides better interaction between administrator and user.
- This application proves to be a privilege for students on medical leave and for external students.

VIII. FUTURE SCOPE

- On the college level, this software is beneficial for the staff as well as student also.
- As soon as the students log in the application in the class, they will be available with their timetables and related notifications. The admin will then update the time table and recent important notifications according to the availability of the students those who are logged in.

- It informs students about present timetable, academic schedule, important notices and various events.
- Student doesn't have to visit the notice board every time.

IX. CONCLUSION

This application is mainly for android phone users. It is mainly designed for students of a particular college. E-Notifier keeps the students updated about the timetable and important notices in college. It also facilitates the external students and students on medical leave to cope up with their missed studies. Thus E-notifier helps the students to manage their studies effectively and be timely updated about important notices in about college.

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