

Notify my Attendance

Harshita Bhardwaj¹, Jagriti Agrawal², Karishma Chauhan³

Department of Information Technology

Inderprastha Engineering College, Ghaziabad

Corresponding Authors' email id: bhharshita198@gmail.com

Abstract

The goal of this paper is to design a notification system using Android application to connect it to the educational web site of university. It achieve high and quick organize between instructor and students, save time, effort by connecting Android Application to educational database of the college using android platform. It provides a wide range of information about student's lecture wise and overall attendance through different designs. It also includes sending notification, attendance.

Keywords: *Android application, Attendance, Notification system*

INTRODUCTION

The present scenario of every educational institution owns a website but they lack in mobile based information. It is the need of time to switch from the based information system portal to mobile friendly application system. The main reason behind the need to create mobile based information system is that it is more close to students , teachers . the mobile based IS will be more convenient to use and students can directly attached to notification like updates of their attendance.

The mobile based IS will help to reduce the gap between college notification since they can remotely access all things happening in the college without checking the college website or notice board regularly which makes it more casual if for long time they do not receive any notification. Using this IS they need not to keep an eye on the notice board or website , they will get constant updates in their mobile as soon as new notification is published.

Here id created with an aim to remove the distance between college information system.

This is basically facilitate introduction of students with college's respective information system.

Documents can be touched with upcoming events and their performance through a simple notification on their smart phone.

In the proposed project Android based attendance system is designed which is less time consuming, safe and easy to implement.

SYSTEM DESIGN

The entire system consists of

A. Authentication module

The purpose of Authentication module is to provide security. It is the entry module of application. Each user enters his/her username and password to enter into application. If username and password is matched, application gets started.

B. Student attendance module

This module is specially designed for faculty. After the lecture is done, staff can upload student attendance record in the database created on server. The overall attendance is calculated automatically and

message will be sent to the parents whose ward has less than 75% attendance

C. Database module

The learning material to be shared is stored on server. By means of internet it will be broadcasted to all the registered students.

D. SMS notification module

In SMS notification module SMS will be sent to Parents or students. If parent notification option is chosen, then SMS will be sent to entered mobile nos. If student notification option is selected bulk SMS will be sent to group of students which belongs to that particular class. With this module examination reminder, student progress, less attendance intimation and any important notice can be sent.

TECHNICAL STEPS

- Setting up environment on own machine. This phase involves installation of Java JDK, JRE, Android SDK, and Eclipse. Creation of GUI / Main Forms/ Sub Forms and create activities linked with each
- Create error logs module which keeps track of non authenticated

- Transactions such as enter wrong password, server network up-downs. Keeps record of network connectivity. Service Call logs module which keepstrack of all user
- Activities like log in time, logout time, upload and download time, File size. Design Web APIs for communication between server• and Android smartphone. Android App Test setup process-Run .apkfileon• android smartphone and test the application.

analysis is carried out to understand the need for the system and the necessary modules such as admin module, registration module, student module and SMS and android module are identified and explored in section, in the design phase, requirements are converted into system design, it is shown in Figure 1. In the second phase, design is converted into coding, testing is conducted to ensure that the developed project is bug free and it meets the requirement specification. Finally developed project is installed and it is ready to use.

HARDWARE REQUIREMENTS

- Processor – i3
- Hard Disk – 5 GB
- Memory – 1GB RAM
- Android device

SOFTWARE REQUIREMENTS

- Windows Xp, Windows 7(ultimate, enterprise)
- Android Development Toolkit (ADT)

METHODOLOGY

This project is developed by using VB.NET and SQL Server. It is divided into two phases. In the first phase, feasibility study is conducted, requirement

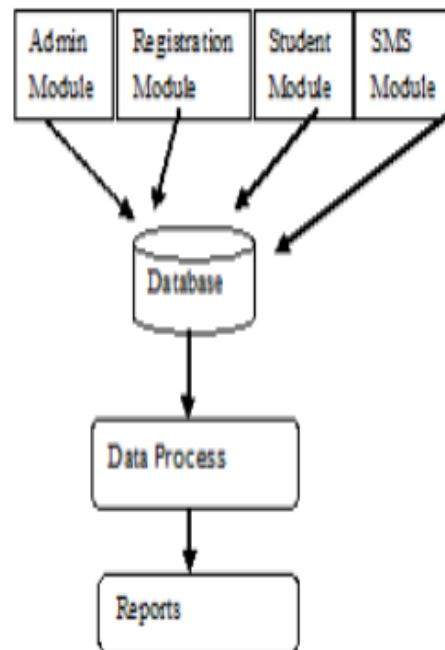


Figure: 1 Overall System Design

System requirement

Selection of software and language Front end: VB.NET Back end : SQL Server Platform : Windows 8.1 IDE : Visual

Studio 2010 Supporting s/w : Android
Selection of hardware Processor : Intel i5
core Hard disk : 80 GB RAM : 4 GB Other
hardware: Android Mobile with Android
Apps

Module Description

Administrator Module

This module is used to login for administrator, it have whole rights to monitor and manage the entire project, through this module, new information can be insert, update, view and delete.

New User Registration

Module:-This module is used to register the user information and it will be store in database. The information such as name, password, date of birth, department, phone no and email id are collected. The collected details are sent to the database for the purpose of login.

Login Module

This module is used to login for the student profile home page and will continues the other processes.

Student Module

This module can be used for student for registration. The information such as name, reg-no, gender, course, department, e-mail, father's name, mobile no. and

address are collected and the collected information is stored in the database.

SMS Module

This module can be used to send SMS to the students through way2sms.com.

Android Module

This module can be used for receiving text messages from students about their leave.

RESULTS

The project provides the homepage for the students and teacher where they can easily check their current status of attendance. Teachers can also update student's attendance and also these notifications will be send to the students through a push message.

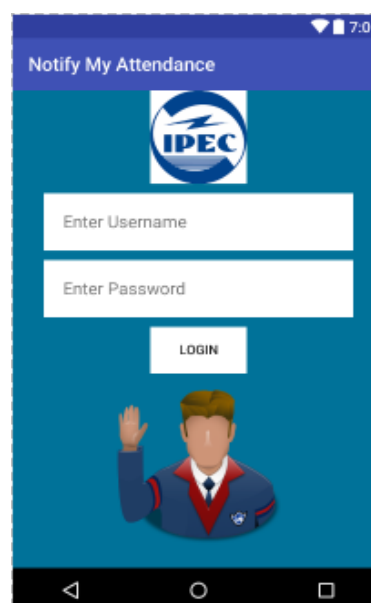


Figure: 2

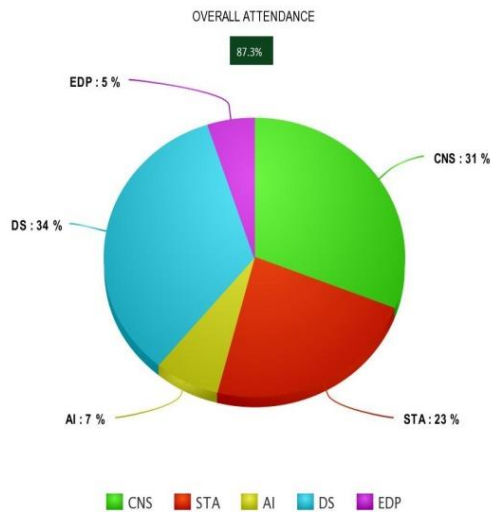


Figure: 3

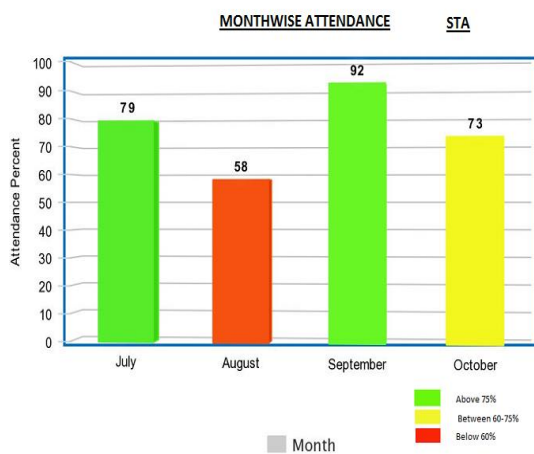


Figure: 4

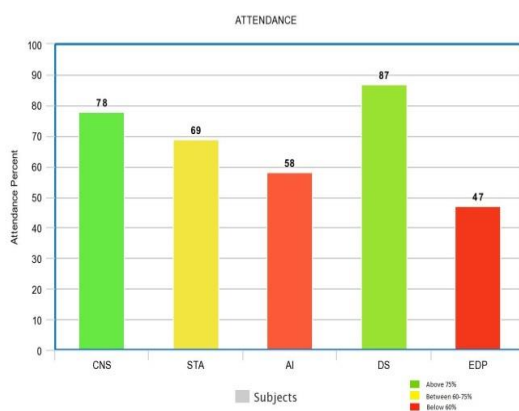


Figure: 5

CONCLUSION AND FUTURE SCOPE

This work is to access the details about the student information and generate reports. It is a collection of static and dynamic pages. It will provide a regular update and report generation will become easy. In future it can be implemented to automate most of education system and can be designed for cross platforms.

REFERENCES

1. Student Attendance Through Mobile Devices. Available from: <http://ethesis.nitrkl.ac.in/5195/1/109CS0146.pdf>. Date Accessed: 11/05/2013.
2. Chawhan SS, Girhale MP, Mankar G. Mobile Phone Based Attendance System. IOSR Journal of Computer Engineering. 2013 Mar-Apr; 10(3):48-50.
3. Online Student Attendance Management System Project. Available from: <http://1000projects.org/online-student-attendance-management-system-project.html>.

Research paper

- <https://www.ijarcce.com/upload/2015/june-15/IJARCCE%2055.pdf> Android Based Smart Learning and Attendance Management System Rakhi Joshi¹ , V. V. Shete² , S. B. Somani³
- <file:///C:/Users/user/Downloads/101807-215192-1-PB.pdf> Mobile based Attendance Management System V. Somasundaram* , M. Kannan and V. Sriram Department of CSA, SCSVMV University, Kanchipuram - 631561, Tamil Nadu, India;
- <http://www.ijfeat.org/papers/sankalp27.pdf?i=1> Student Attendance Tracker System in Android Miss. Namrata N. Shahade, Department of Information Technology J.D.I.E.T., Yavatmal, Maharashtra, India,