



## International Journal of Innovative Research in Computer and Communication Engineering

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# Improvised Smart Application for Student Information Management System Using Android

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**ABSTRACT:** The main objective of this project is to add mobility and automation to the process of managing student information in an institute. In a real world scenario, such as college campus, the information is in the form of notice, hand-written manual, verbal message, is being spread among the students. Today it is of the essence to not only use the predictable forms of statement, but also new forms such as cell phone technology, for faster and easier communication among the students. The approach of communication is Android. The core idea of this project is to implement android based Mobile Campus application for advancement of institution and educational system. The application will be used by students, teachers and parents. Faculty may upload Marks, Attendance, Events remarks. Through their provided login. In the previous system, all the information has to view in a hard file, or in website. At the same time while searching any information it is too difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process easier, secure and less error prone.

**KEYWORDS:** Android, mobility.

### I. INTRODUCTION

The amount of information of student management in the college has rapidly expanded, along with the scale of students recruitment in domestic college enlarging gradually. It is a new task ahead of us how to manage such a huge information data in an instant, effective and efficient way and meet with numerous and complicated work of student management in the college. The mode of efficient student work management is characterized by using the information technology in student management work in the college. The integration of students basic information and management information will turn student management work in the college into an organic whole, which could deal with student information effectively and timely and even track student information. The system bridges this gap between the end-users and the contrivance planning managers by providing centralized control over the entire system.

Our basic approach attempts to develop a smart phone based application using Android which can be used to make this process secure. The system being designed is economically with respect to the students, parents and teachers point of view. The goal is to extract useful information from an unstructured data using the concept of information retrieval. To develop an enhanced student information management system that can help solve drawbacks of existing ERP system.

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## II. LITERATURE SURVEY

The development and design of the student management system based on the network environment. Authors: Zhi-gang YUE ,You-wei JIN The paper discusses the method of the management information in higher education. On the basis of a comprehensive investigation and analysis on the student management in higher education, we establish the models of the college students' management information by adopting the advanced information technology, and construct the student management information platform. Moreover, we analyse the characteristics of the information management in higher education, and elaborate the methods to solve the difficulties confronting in the students management of the higher education. Finally, the key method and technology to carry out the information management platform are presented [1].

Android-based Attendance Management System Authors :SitiAisahMohd Noor, NorlizaZaini, MohdFuad Abdul Latip, NabilahHamzah In this paper a method of taking attendance by employing an application running on the Android platform is proposed in this paper. This application, once installed can be used to download the students list from a designated web server. Based on the downloaded list of students, the device will then act like a scanner to scan each of the student cards one by one to confirm and verify the students presence. The devices camera will be used as a sensor that will read the barcode printed on the students cards. The updated attendance list is then uploaded to an online database and can also be saved as a file to be transferred to a PC later on. This system will help to eliminate the current problems, while also promoting a paperless environment at the same time. Since this application can be deployed on lecturers own existing Android devices, no additional hardware cost is required [2].

## III. PROPOSED SYSTEM

### OBJECTIVE

- A. To reduce a time required for result preparation and management process.
- B. To increase efficiency and accuracy of proposed system
- C. To help parents to track student details periodically.
- D. To reduce manual work.

### SCOPE

This application helps parents to communicate with staff and get students details periodically

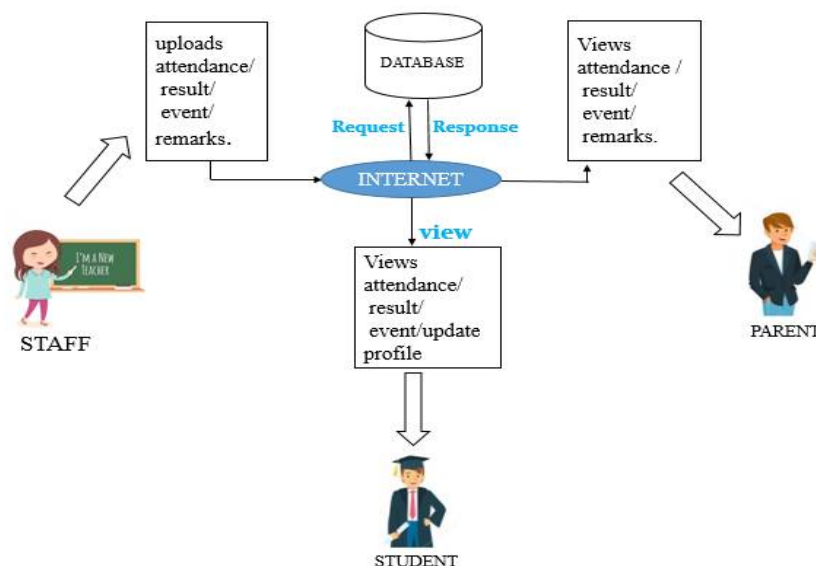


Fig.1: Proposed system architecture.

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## IV. METHODOLOGY & DISCUSSION

Initially staff login into their login portal using authentication and if it is invalid it doesn't enter into system. After authentication staff can able to upload attendance, marks, events and remarks of students. Once student and parent initially get register and login into their login portal. Student can view marks, attendance, events and can update profile through update profile student can change name, password. In addition to this parent can view remark of a particular student uploaded by staff. After completion of the process users can logout from the system.

## V. EXPERIMENTAL RESULTS

User enter id and password for login. This Page, is used for authentication of user. The entered id and password is matched with the id and password stored in database. If id and password match then directed to static screen otherwise display message to login unsuccessful.

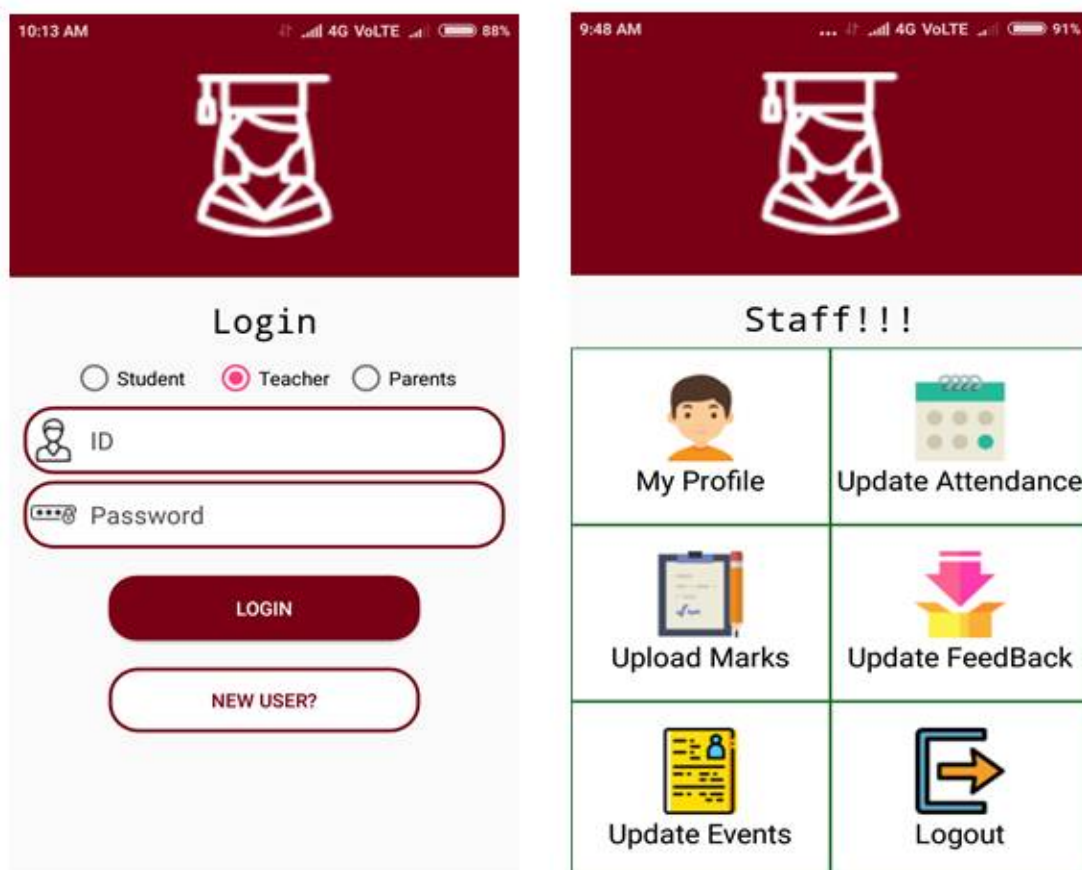


Fig.2: login page.

Once After teacher initially get register and login successfully they can upload marks, attendance, events, remark of student through above user interface and remarks can view by parents and also get message alert.

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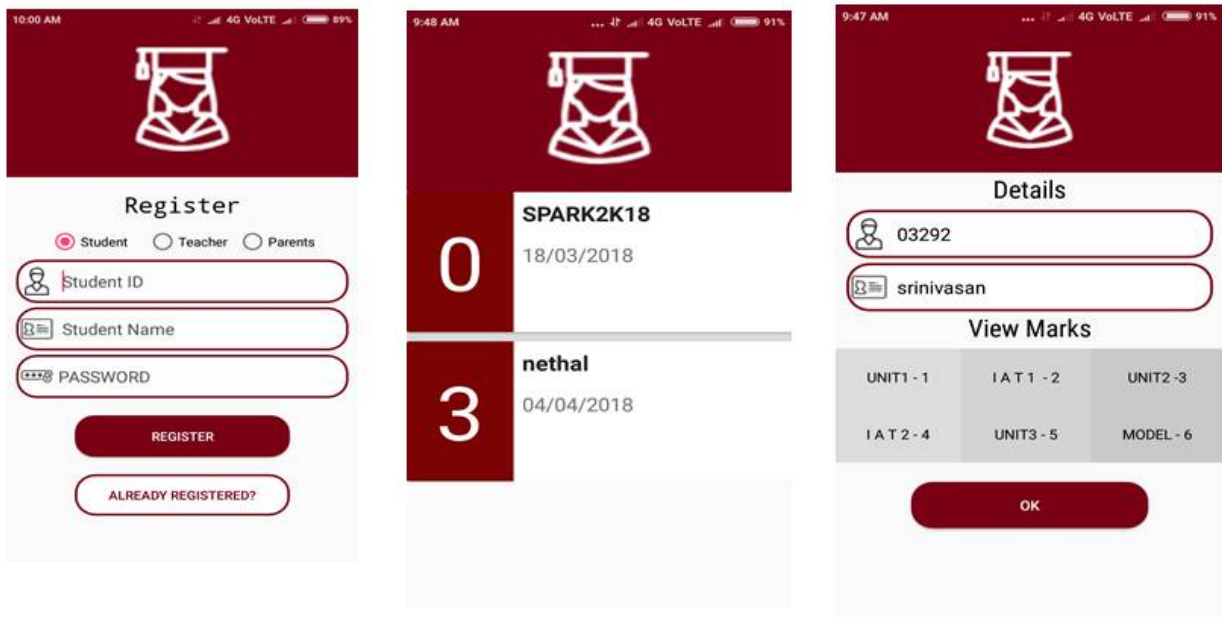


Fig.3: Student view marks.

After teacher upload marks and events, student can view attendance, events and marks through their login. Above fig show an example of events and marks.



Fig.4: parent login.

Parent can view attendance, marks of student in addition to this parent can view remark of a particular student and also get message alert when staff marks attendance as absent for student



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## VI. CONCLUSION AND FUTURE WORK

The system offers reliability, time savings and easy control. Students and their parents will also view results, attendance and curriculum details using this application. Also students can view details, notifications anywhere and anytime. The application will greatly simplify and speed up the result preparation and management process. It provides high security and a system that reduces the work and resources required in traditional process. The proposed system provides the new way of computing and displaying an operations with responsive and attractive user-interface. Thus, on the basis of literature survey and by analyzing the existing system, we have come to a conclusion that the propose system will not only aid the automation to the college ,but will also help to digitize the system and in turn help to deploy resources efficiently.

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