

**Proposed Android Based Academic Scheduler Application**

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**Abstract** —Android based academic scheduler application realization including establishment and maintenance of the database and front-end application development. It describes the system functional and architecture design, and emphasizes the system's functionality, database design and functional modules, etc. Fully functional, flexible and convenient application and friendly interface provide a good guarantee for Android based academic scheduler application. It introduced the Android platform and the features of Android applications, gave a detailed description of Android application framework.

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**Keywords**-Android, Mobile Device.

## I. INTRODUCTION

Mobile phones are popular and used in day-to-day life. Development of application that the parents can easily access through their smart phones. Although there are many mobile platforms available in the market these days, Android OS is the most user-friendly and programmer friendly platform. These applications make life easier and advanced for the parents and teachers.

Android applications related to school provide facilities of attendance, fees report, Result analysis and other general information about school and particular student. To provide security and limiting authority, application gives different logins for parent, teacher and administrator.

## II. LITERATURE SURVEY

**2.1**SaurabhWalia and SatinderjitKaur Gill implemented Automate Results, Attendance, Fees of student. This system will work on the network. Students get their desired information without any delay. The information which is stored in the database can be accessed any time by using this system there will be no wastage of resources in schools. There is no need to arrange the students record manually this system will give better performance in arranging the student record[1].

**2.2**S.R. Bharamagoudar, Geeta R.B. and S.G. Totad stated Web Based system for student record. This paper useful in automating the existing manual system. This is a paperless work. It can be monitored and controlled remotely. It reduces the man power required. It provides accurate information always. Malpractice can be reduced. All years together gathered information can be saved and can be accessed at any time. The data which is stored in the repository helps in taking intelligent decisions by the management. So it is better to have a Web Based Information Management system. All the stakeholders, faculty and management can get the required information without delay[2].

**2.3**ManasiKawathekar, Kirti K. Bhate, PankajBelgoankar invent an application that contain Notice, Event, Attendance, Report generation. Changes in Information Technology (IT) allow schools to utilize databases and applications such as Student Information System (SIS) thus, making the accessing of records centralized. One of the changes that came about is the online-based applications. The application will be used by students, teachers and parents. The utilities provided by the application are- student details maintenance, discussion forum, notice board, attendance and report generation. The main objective of this project is to add mobility and automation to the process of managing student information in an institute[3].

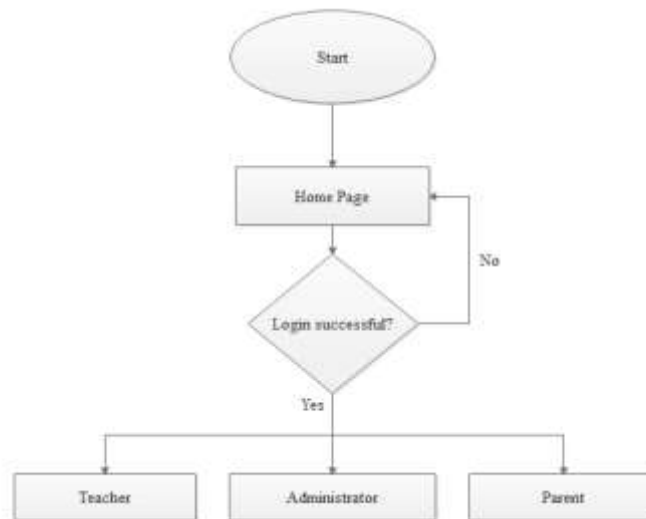
**2.4**BalazsBenyo, BalintSodor, TiborDoktor and GergelyFordos invented Student attendance monitoring at the university using NFC. An application to eliminate the weakness they chose to apply biometric identification along with the contactless technology. In their solution the personal data for biometric identification are stored distributively and serves as a binding between the appeared person and the student identifier used for registration. For biometric identification they choose the fingerprint identification as it is widely used and it is among the most cheapest ones[11].

**2.5**Zhibing Liu, Huixia Wang, HuiZan invented Design and Implementation of Student Information Management System. An application that focuses on the function description and analysis of the system, and program access to the database through ODBC (Open Database Connectivity,). They use visual basic 6.0 for programming[10].

2.6Jianye Liu ,Jiankun Yu stated Research on Development of Android Applications. They gives a detailed introduction of Android application framework and the working principal of Android applications. Android as a full, open and free mobile device platform, with its powerful function and good user experience rapidly developed into the most popular mobile operating system[8].

### III. PROPOSED SYSTEM

In our proposed system, content will be well organized, searching overhead will be reduced, retrieval of data is fast and data is maintained efficiently so it is userfriendly.Itincludes advertisement of the college thus satisfying the marketingcriteria to showcase its facilities to the HSC and diploma students.



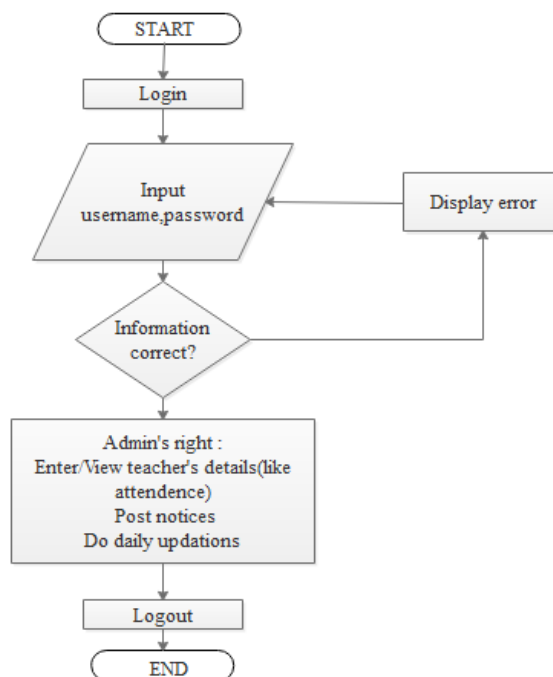
**Figure 3.1 Flow Graph**

### IV. SYSTEM MODULES

The modules in our proposed system are as follows.

#### 4.1 ADMIN MODULE:

Flow Graph in Figure 4.1 describes flow of Admin module. When Admin fill correct username and password then he/she will enter in module otherwise flow again goes to login page. After entering in Admin module , he/she have some rights like entering teacher’s details etc.



**Figure 4.1 Flow Graph of Admin**

#### 4.2 PARENT MODULE:

Flow Graph in figure 4.2 describes flow of Parent module. When Parent fill correct username and password then he/she will enter in module otherwise flow again goes to login page. After entering in Parent module, he/she have some rights like entering student's details, viewing notices etc.

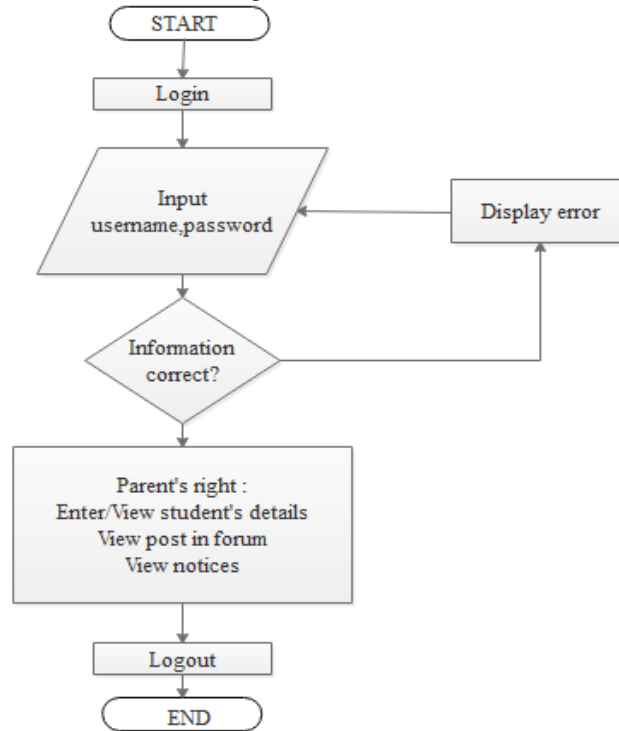


Figure 4.2 Flow Graph of Parent

#### 4.3 TEACHERMODULE:

Flow Graph in figure 4.1 describes flow of Teacher module. When Teacher fill correct username and password then he/she will enter in module otherwise flow again goes to login page. After entering in Teacher module, he/she have some rights like entering attendance of students etc.

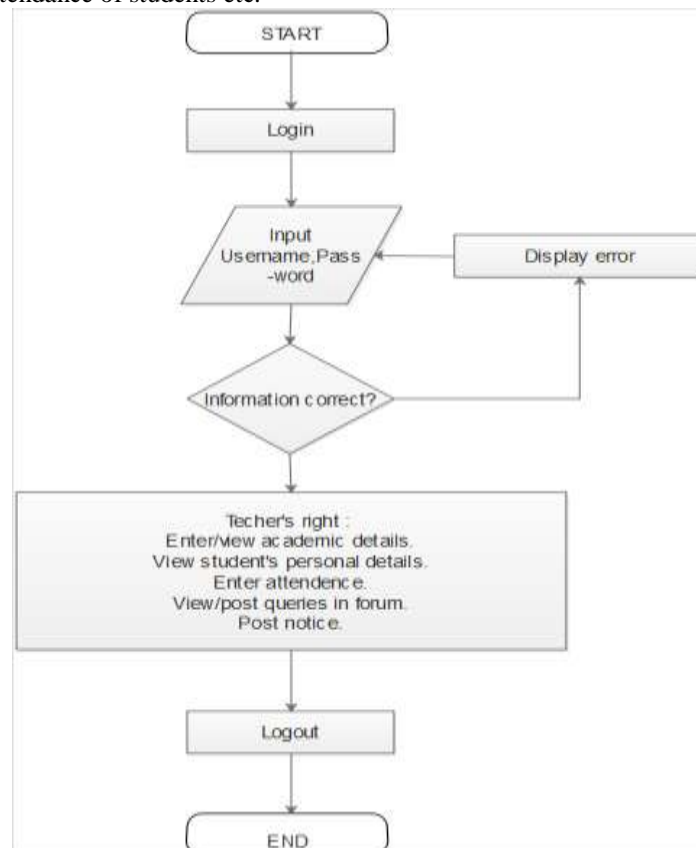
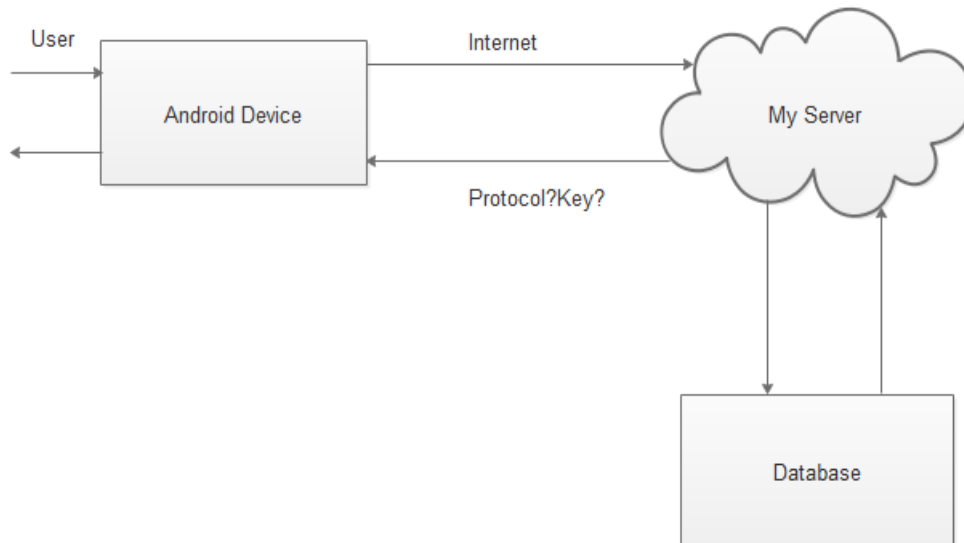


Figure 4.3 Flow Graph of Teacher

## V. SYSTEM ARCHITECTURE

This is system architecture where actual connectivity is shown. Here android device send request using internet then myserver send response to android device via internet. All information is fetch from the database at server side .



**Figure 5.1 System Architecture**

## VI. TECHNOLOGIES

**Android platform:** Android is a operating system developed by Google and OHA (Open Handset Alliance) based on the Linux Kernel. It designed primarily for touch screen mobile devices such as smartphone and tablets.

**Android Studio:** Android Studio is the official Integrated development Environment (IDE) for Google's, Android Operating System designed specifically for Android Development. It is available for download on Window, mac OS and Linux based operating systems. It is a replacement for the Eclipse Android Development Tools (ADT) for native Android application development.

**Mobile Device:** A mobile device is a device small enough to hold and operate in the hand. Typically, any computing device will have an LCD flatscreen interface, providing a touchscreen interface with digital buttons and keyboard or physical buttons along with a physical keyboard.

## VII. CONCLUSION

An Android based mobile application for school management system is presented in this project. The application offers reliability, time savings and easy control to the users. It can be used as a base for creating and enhancing applications for viewing results, tracking attendance for schools or any workplace. Students and their parents will also view results, attendance and curriculum details using this project. Also students can view details, notifications from anywhere and at any time. The project will greatly simplify and speed up the result preparation and management process. It includes advertisement of the school thus satisfying the marketing criteria to showcase its facilities to the newly entered students. This project provides high security and a system that reduces the work and resources required in traditional process. Also proposed system provides the new way of computing and displaying an operations with responsive and attractive user-interface.

This project will also assists in automating the existing manual system. This will be a paperless work. It can be monitored and controlled remotely. It will definitely reduce the man-power required. Our proposed system provides accurate information always. All year's together gathered information can be saved securely and can be accessed at any time. So it is better to use this project. All the parents, faculty and management that means administrator can get the required information without delay. This system can be used in the colleges/hostels and universities.

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