



# Mobile Application for Student Information System

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**Abstract:** This work is aimed at developing an Android Application for student Information System which is very important in educational institution. This system will be useful for parents, students and faculty members for effective communication. Using this system parents will be able to access their wards details such as academic performance, attendance details, co curricular and extracurricular information. This system helps the students to view the details such as Workshops, training programs and conference organized in the educational institution, attendance and academic details. Student can also use this system to download lecture notes which will be posted by faculty members. The main objective of the work is to provide an effective interaction system among parents, academic institutions and faculty members. Faculty members can upload technical information like lecture notes, tutorial sheets and online course details through which students can improve their knowledge.

**Keywords:** MobileApp, student information system, parent-academic institution interaction

## I. INTRODUCTION

Now a day's different kind of mobile applications are used by students for various purposes. Mobile applications provide substantial benefits for students and administrators. These applications vastly improved communication, greater accountability, better student compliance, and greater objectivity in evaluation. With the development of android phones, the android applications suddenly became an important aspect for local and global communications. With the introduction of android phones, colleges started developing android applications through which student's information and activities in colleges can be viewed and accessible up-to-date 24/7. An online student information system is one of the essential parts of colleges.

## II. TECHNOLOGIES USED

For user interface, Eclipse android application development software will be used. XML will be used for designing the Graphical User Interface (GUI). Java will be used for connecting various components of user interface to database system. MYSQL is used as a database at the web server and PHP is used to fetch data from the database. Application will communicate with the PHP page with necessary parameters and PHP will contact MYSQL database and will fetch the result and return the results to application requesting it.

## III. PROPOSED SYSTEM

The objective of the design of this system is to computerize the procedure of managing and controlling the information about the student details and to reduce the overhead of managing paper documents for every

announcement and notices being made. The proposed system keeps the information on a server and enables users to access information from their Smartphone, once the app is installed on the user's Smartphone. This mobile app will be used by parents, faculty members and students and administrator. The proposed system consists of four well defined modules named Admin module, Parent module, Faculty and Student Module. There will be four links in the home page for accessing admin module, parent module, faculty module, and student module. Once clicking any one of the links provided, the respective login page will be displayed, and Admin module contains all the information such as login details, parent's details, student details and staff details. Faculty members, Parents and Students can login by giving their user name and password. Administrator is responsible for maintaining the database. The frame work of the system is given in figure1.

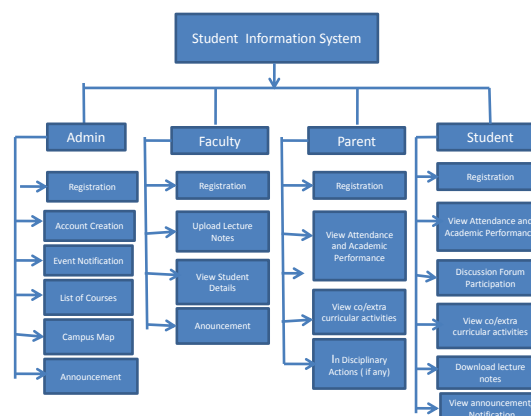


Fig.1 A frame work of the Student Information system



#### IV. REQUIREMENTS SPECIFICATION

##### A) Functional Requirements

###### a. Student /Parent/ Faculty Authentication

The system can be accessed by only authenticated users.

**Inputs:** Inputs include username and password submitted by the user.

**Processing:** Username and passwords are checked against the database to ensure valid user.

**Output:** Valid users are allowed to access the homepage.

###### b. Admin Authentication

Admin module can be accessed by only valid administrator.

**Inputs:** Inputs include username and password submitted by the Administrator.

**Processing:** Username and passwords are checked against the database to ensure valid admin.

**Output:** Valid administrator only is allowed to access the admin page where he can create accounts for users.

###### c. Announcement

It allows the Administrator to upload announcement to students.

**Inputs:** Input includes information to all students.

**Processing:** The given information is stored in the database.

**Output:** It can then be viewed by all the users.

###### d. Lecture Notes

It allows the faculty members to upload lecture notes which can help to students to enhance their knowledge.

**Inputs:** Input includes Lecture notes/ Technical information to all students.

**Processing:** The Lecture notes/ Technical information are stored in the database.

**Output:** It can then be viewed by all the users.

###### e. student reports

It allows the students/parents to view the academic performance, attendance, extracurricular and co curricular details.

**Inputs:** Inputs include register number and password of the student / username and password for parent login

**Processing:** Details of the student are fetched from the database.

**Output:** The student details are then displayed.

###### f. Event Notification

It notifies the students about the events such as workshop, guest lectures, sports meet, training and conference to be conducted.

**Inputs:** Input includes event name, place, description and date.

**Processing:** event details are stored in the database.

**Output:** It can then be viewed by all the users.

###### g. List of courses

It allows the students/parents to view the information related to various course offered by college

**Inputs:** the user clicks on the list of course link.

**Processing:** course related details are fetched from the database.

**Output:** The course details are then displayed.

###### h. College Map

It allows the students to view location of different department and other area of the college and shortest way to reach there.

**Inputs:** the user clicks on the campus map link.

**Processing:** Details of the campus map are fetched from the database.

**Output:** The location details are then displayed.

##### B) Non - Functional Requirements

###### 1) Performance of the system :

Response time is very good for given piece of work. The system will support multi user environment.

###### 2) Reliability of the system:

The system will be highly reliable and it generates all the updates information in correct order. Data validation and verification is done at every stage of activity. System recovery will also be speed.

##### C) Behavioral Attributes

1) **Security** - The system is developed in java and extends security features of web browsers.

2) **Availability** - The system will be available 24X7.

3) **Maintainability** - The system will be able to meet new requirements (additions/ deletions).

4) **Portability** - This application will be portable on any system and can be opened in any browser.

#### V. CONCLUSION

The main objective of the system is to enhance the interaction among parents, faculty members and academic institution. This system displays appropriate information to users according to the selected module. This system is very helpful for both parent and educational institution for effective communication.

Using this system student can gain technical knowledge and be aware of events organized in the educational institution. Deployment of this application will certainly help the educational institution to reduce unnecessary wastage of time in personally going to each department for gathering required information.

Awareness and right knowledge is essential in any educational institution for both the development of student as well as parents. This system provides the right purpose in achieving the desired requirements of both the communities.



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