

Android Based Schoolopedia System

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Abstract- Schoolopedia system is an android application which is helpful for students, parent as well as the school. It manages the school information, student details, student attendance information, Exam and result detail, Time table information, fees management, various different types of events information and so on. It also keeps track records of all the information regarding students those who are admissions in school.

Schoolopedia system is an android application which is helpful for students as well as the school. In the existing system all the activities are done manually. It is very costly and time consuming. In our proposed system, students can view results using Android phones. The data will be stored in the school server. The faculty can login into their school account through the app itself and update the academic result. In this system, students have easy access for viewing the marks, provided their authentications are correct and they are not permitted to change/update the marks. The proposed work has three modules: 1.Principal 2.Staff 3.Parent.

In the student's module, student need to register their roll no, school registration number, student name. Principal module maintains the student's marks of internal school exams. Other than this the advanced features are: In case of natural calamities such as floods, etc. notification to students will be sent from admin office through app directly. Any new notice for a particular semester will be uploaded by professor through application notifying to respective students.

Keywords- Android studio 3.5, SQLite Server, Schoolopedia, Result.

I. INTRODUCTION

The design and implementation of the system is to provide service in school. The system is to provide comprehensive student information system and user interface is to replace the current paper records. School Staff uploads attendance, results, and Timetable, Homework and school notifications through a secure, online interface using android devices. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. All data is stored securely on SQLite servers managed by the school

Administrator. The system decreases paperwork and time needed to access student records. This system provides a simple interface for the maintenance of student information. It can be used by educational school to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information are scattered, can be redundant and collecting relevant information may be very time consuming.

Our proposed system ensures to overcome these limitations. The paper focuses on presenting information in an easy and intelligible manner which provide facilities like online registration and profile creation of students, attendance monitoring, circular notifications, result viewing thus reducing paper work and automating the record generation process in an education institution. Online Attendance and Feedback System is software developed for daily student attendance in schools. It facilitates to access the information of a particular student in a particular class

II. LIERATURE SURVEY

In[1] 2 Feb. 2017 Prof. A.J.Kadam, Aradhana Singh, Komal Jagtap, Srujana Tankala” anther tells that proposed Mobile Web Based Android Application for College Management System”, in this system all the information that are received from 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. 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. 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. More efficient information's will be achieved through this system. When sensitive data is stored on the device, apps can ensure that they are stored securely using encryption. Apps also exchange sensitive information with remote servers. The

Android platform provides a number of algorithms for encrypting sensitive information with remote servers.

In [2] 05, May-2016 Prof.Srikant Patnaik, Khushboo kumari Singh, Rashmi Ranjan, Niki Kumari author tells that “COLLEGE MANAGEMENT SYSTEM”. This paper proposes a project is based on collage management system. It manages the college information, student information, placement information, various different types of event going on in our college. It also keeps track records of all the information regarding students those who are placed in the various organization. It has a notice board which contains information about various cultural or technical or any sports which is supposed to be held soon. With the help of this project, you can view the previous videos with the help of internet connection.

In [3] 4, April 2016 Vishwakarma R Ganesh author tells about “Android College Management System”. Admin module maintains the student’s marks of in our proposed system, students can view results using Android phones. The data will be stored in the college server. The faculty can login into their college account through the app itself and update the academic result. In this system, students have easy access for viewing the marks, provided their authentications are correct and they are not permitted to change/update the marks. The proposed work has two modules: 1.Student 2.Admin. In the student’s module, student need to register their roll no, college registration number, student name. Internal college exams. Student’s attendance is also monitored by the application.

III. EXISTING SYSTEM

In the existing system all the activities are done manually. It is very costly and time consuming. The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently. The use of the some technology can be complicated and time consuming. It require more calculations to generate the report so it is generated at the end of the session. Hence requires more time to display the report

IV. PROPOSED SYSTEM

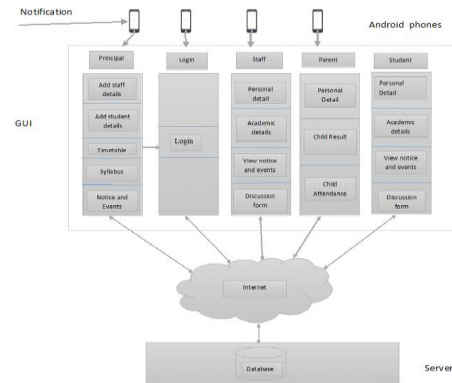


Fig: Block diagram

DISCRIPTION

MODULES

The Educational based Schoolopedia software project has 3 modules :

1. Principal
2. Teachers
3. Parents

1. PRINCIPAL MODULE:

Unique username and password. So that principal can login to view his class In this module principal is provided with a attendance details, academic details, cultural details, pay roll management. He can allocate rooms.

The sub-forms are:

- Timetable
- Attendance Maintenance
- Academic Details
- Examination & Mark sheet Generation
- Class Maintenance
- facilities
- Reports

2. TEACHER MODULE:

In this module, every teacher is provided with a unique username and password. So that teacher can login to view his attendance details, class details, cultural details, salary details, reports.

The sub-forms are:

- Time Table
- Examination Schedule
- Mark sheet Entry for students
- Maintain Attendance of students
- Class syllabus
- Homework
- View School Timings
- Holidays
- Feedback
- Reports

3. PARENT MODULE:

In this module, every parent is provided with a unique username and password. So that parent can login to view his/her child attendance details, academic details, cultural details, fee management.

The sub-forms are:

- Student Attendance
- Student Mark sheet
- Student Activities
- Homework
- Fees Detail.

3.2 ADVANTAGES

- Consumption of time is less.
- Easy to find details of a particular student.
- Save paper & reduce teacher workload.
- Parent-teacher collaboration

V. FLOWCHART

5.1 Principal flowchart

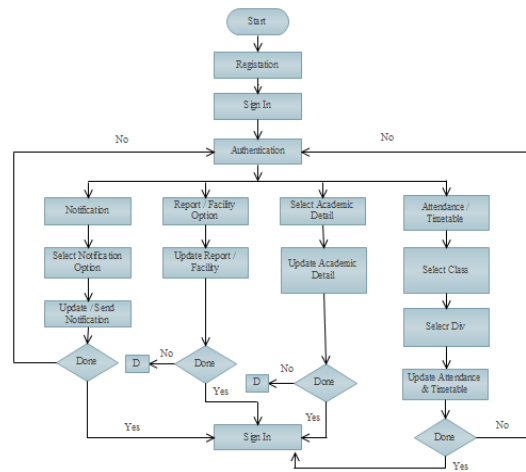


Fig: Principal flowchart

5.2 Teacherflowchart

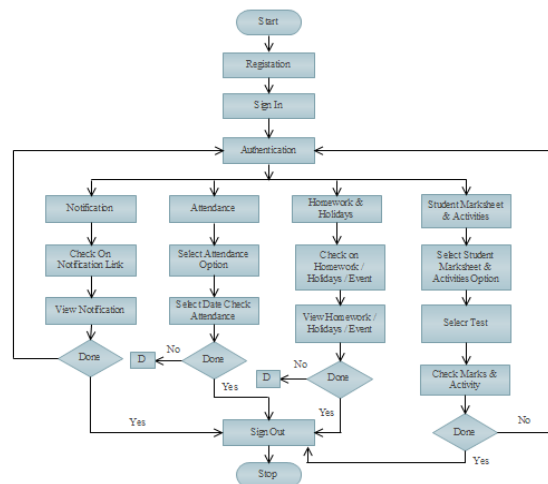


Fig: Teacher flowchart

5.3 Parent flowchart

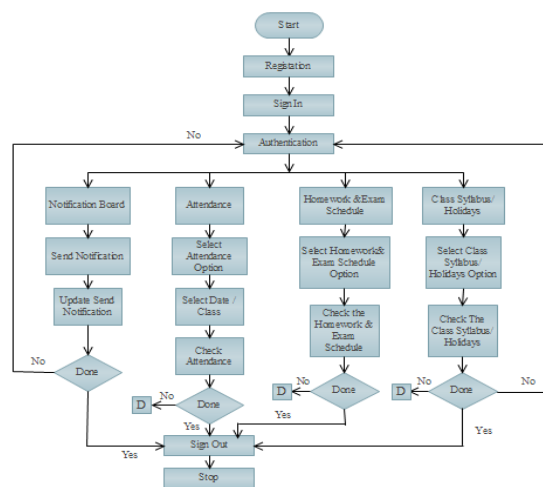


Fig: Parent flowchart

VI. MATHEMATICAL MODULE

Let us consider S as a system for Schoolpedia,

$$S = \{I, F, O\}$$

Where,

I = Query submitted by the Teacher, Parent i.e. query

F = Functions implemented to get the output, i.e. collaborative filtering

O = Output of desired query, i.e. how many Teachers, parents are register in system.

INPUT:

Identify the inputs:

Set,

$$F = \{f_1, f_2, f_3, \dots, f_n\}$$

Where,

F is set of functions to execute Commands.

$$I = \{i_1, i_2, i_3, \dots, i_n\}$$

Where

I is Sets of inputs to the function set

$$O = \{o_1, o_2, o_3, \dots, o_n\}$$

Where,

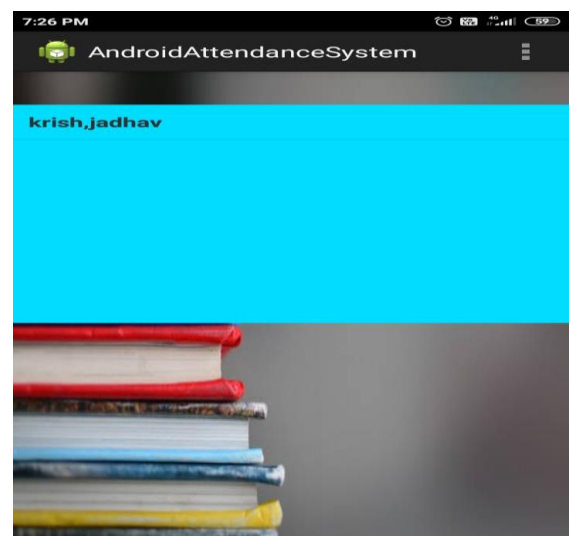
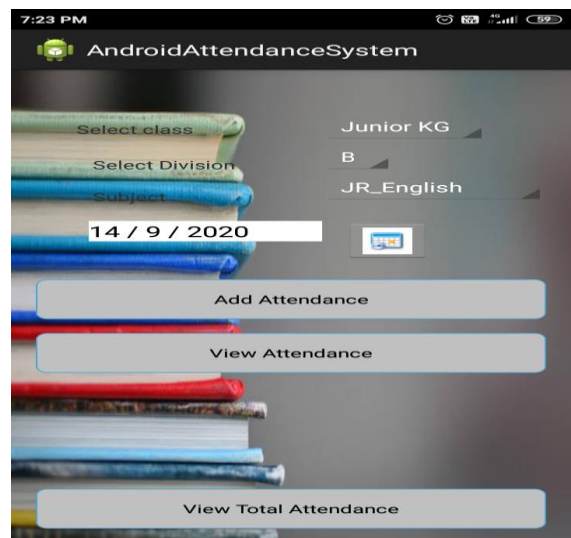
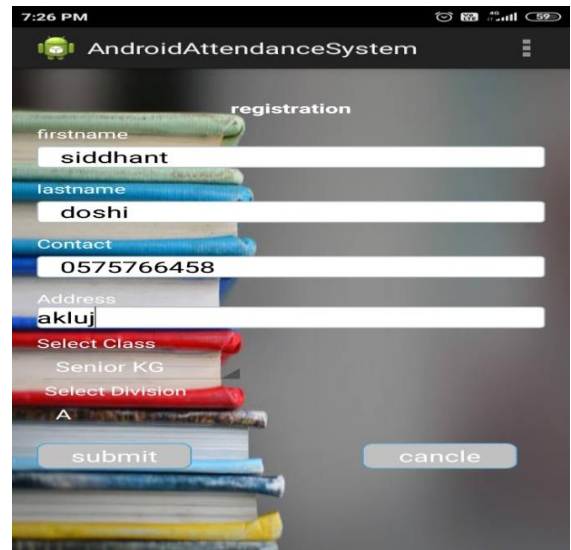
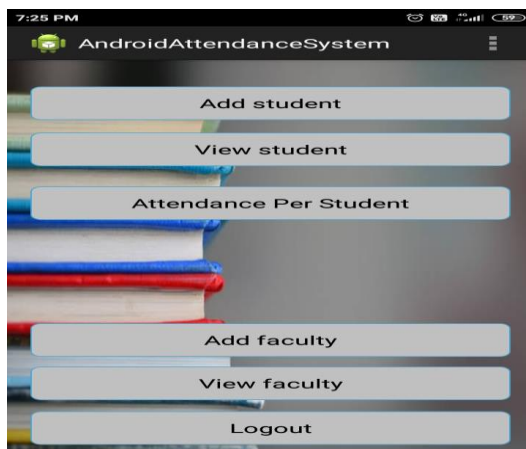
O is set of outputs from the Function sets,

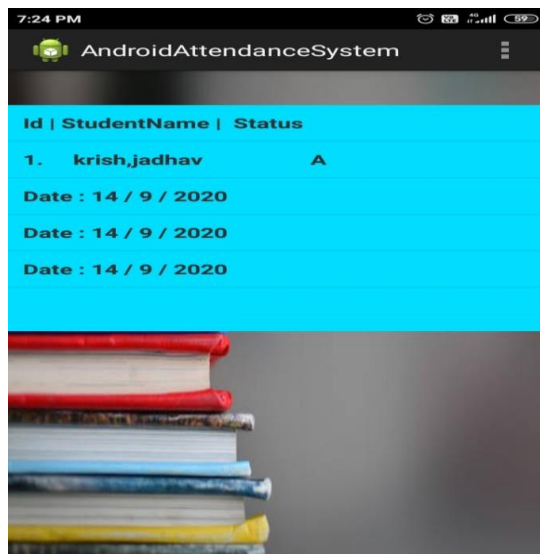
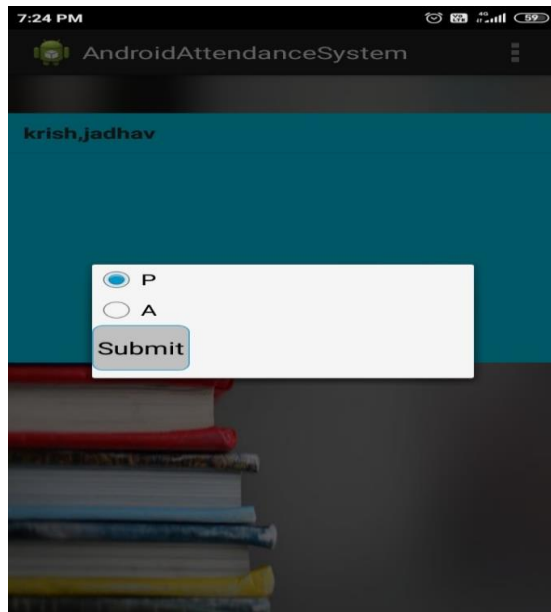
E = End of the program.

Output:

O = Represent the Teacher, Parent will Login, Add Student & Teacher, Add Attendance, View Attendance etc.

VII. RESULTS





VIII. CONCLUSION

An Android based mobile application for Schoolopedia System is presented. The application offers reliability, time savings and easy control. It can be used as a base for creating and enhancing applications for viewing results, tracking attendance for colleges or any workplace. Students and their parents will also view results, attendance and curriculum details using this application. Using this system parents can view details, notifications anywhere and anytime.

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