

Student Database Management System

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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 environment, such as a college campus, information is disseminated to students in the form of notices, handwritten manuals, and vocal messages. Today, it is critical to employ not only the traditional forms of statement, but also newer ones, such as cell phone technology, to facilitate faster and easier communication among students. The college staff uses android devices to upload results and college information to a secure android application. Before any record changes, all data is thoroughly examined and validated on the server. The college Administrator manages the MySQL Database, where all data is safely kept. The method reduces paperwork and the amount of time it takes to access student records. In the previous system, college depended mainly on paper records, which had its own set of drawbacks. 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 easy and secure. Keywords: Student Database Management System, Android SDK, User Android Application.*

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I. INTRODUCTION

The system's design and execution are aimed at providing services to institutes and colleges. The system's user interface will replace the present paper records and provide a comprehensive student information system. The college staff uses android smart phones to upload student attendance and academic related content to this application. Before any record changes, all data is properly examined and validated on the server. The objective of Student database management system is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile. It'll also facilitate keeping all the records of students, such as their id, name, mailing address, phone number etc. So all the information about an student will be available in a few seconds. Overall, it'll make Student database management an easier job for the administrator and the student of any organization. The main purpose of this document is to illustrate the requirements of the project Student database management system and is intended to help any organization to maintain and manage its student's personal data.

II. EXISTING METHOD

Android Student Data Base Management system is an android application which is helpful for students as well as the colleges. In the existing system all the activities are done manually. It is very costly and time consuming. In their 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.

2.1 Drawbacks in Existing system

- Waste of time.
- Disturbance in the middle of the class.
- Paper based work.
- It takes long time to calculate the attendance.
- If all the student of the data stored in register if we loss a register all the information were lost.



III. PROPOSED METHOD

The proposed work has a better, energy efficient, user friendly system which is named as "Student Data Base Management Android Application". This app is helpful for teachers, students. This app ensures the smooth communication between the admin, faculty and students. The faculty are also included as special member in the app so that they can get aware about the happenings in colleges/Schools as well as they can have a track of their student's performance. This app helps the administrative staff in issuing the different certificates to the student. This feature is digital certificate feature which eases the task of getting certificate. This is very helpful for student as they don't need to run for the curriculum and apply for the same by using this app. There is leave application feature which makes it unique from other applications. This feature facilitates the students and admin to take appointment of concerned authorities on touch of a button.

3.1 Advantages

- Better utilization of time and resources
- Enhanced productivity
- Centralized database

IV. SOFTWARE ENVIRONMENT

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. Google Inc. purchased the initial developer of the software, Android Inc., in 2005. Android's mobile operating system is based on the Linux kernel. Google and other members of the Open Handset Alliance collaborated on Android's development and release. The Android Open Source Project (AOSP) is tasked with the maintenance and further development of Android. The Android operating system is the world's best-selling Smartphone platform. The Android SDK provides the tools and APIs necessary to begin developing applications Android platform using the Java programming language. Android has a large community of developers writing applications ("apps") that extend the functionality of the devices. There are currently over 250,000 apps available for Android. The Android Open Source Project (AOSP) is tasked with the maintenance and further development of Android. The Android operating system is the world's best-selling Smartphone platform. the Java programming language. Android has a large community of developers writing applications ("apps") that extend the functionality of the devices. There are currently over 250,000 apps available for Android.

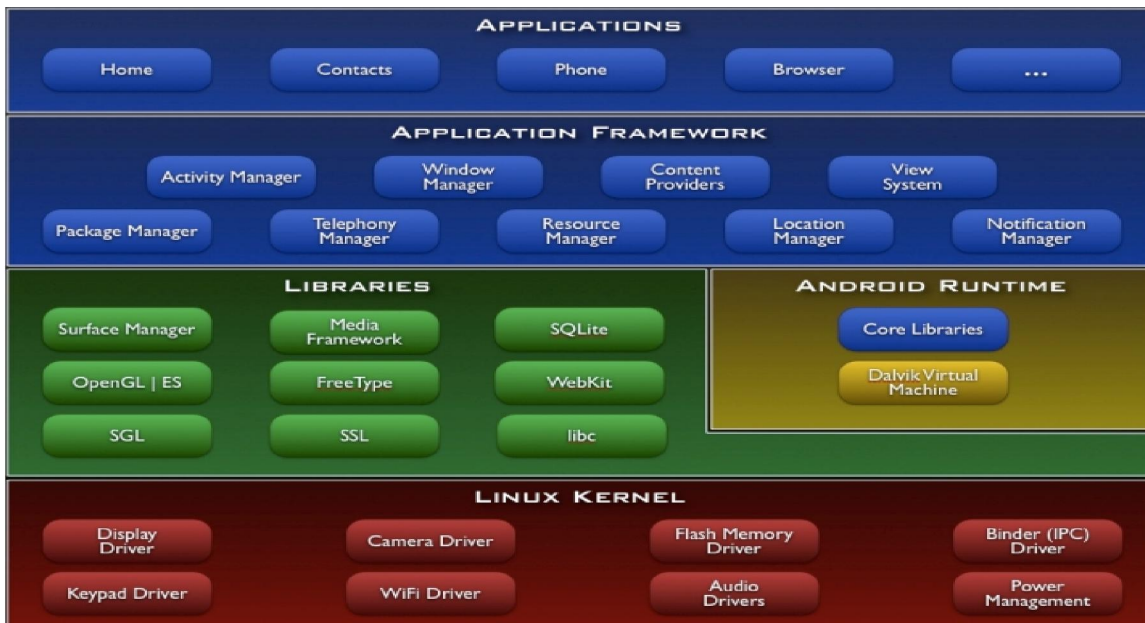


Figure 1: Android Architecture

V. RESULT

When we click on the app it opens like this.

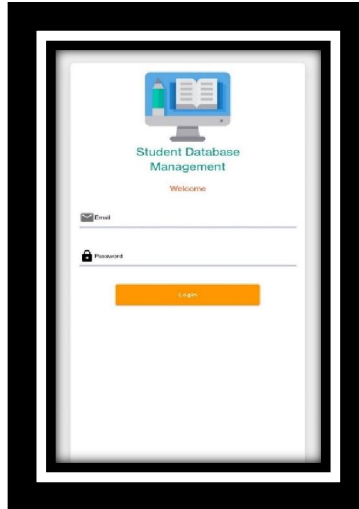


Figure 2: Login page

- This is the welcome page of the app.
- To open this app first the user needs to login the welcome page.
- To login the welcome page we have to enter the Email of the user.
- Secondary we have to enter the password of the user which we created already.
- After entering the Email & Password then we have to click on the login option.



Figure3: Admin home page

- In Admin home page it shows different slides.
- In Admin home page we can add both faculties and students.
- We can also check and view the faculties and students list.
- Admin can accept/reject leaves for faculties.
- We can check the attendance, circulars.
- We can upload the timetable, complaints.
- We can also logout after all finishing.

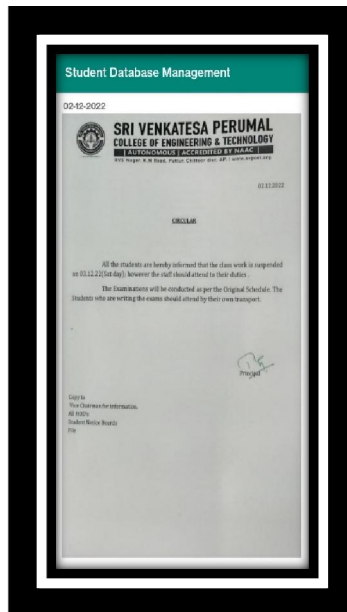


Figure 4: View Circulars

- The above figure view the circular.
- Which was uploaded.

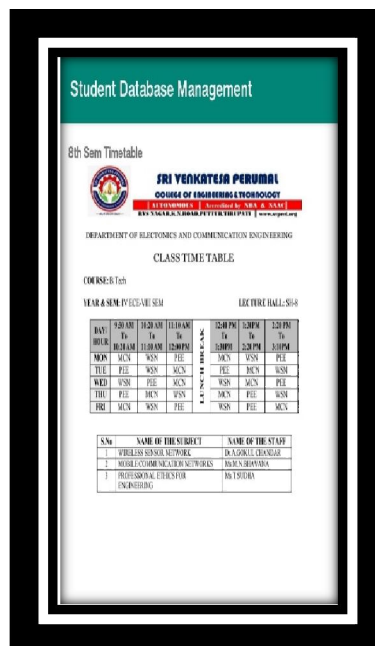


Figure 5: View Timetable

- The above picture is showing the Timetable.
- Which was uploaded by Admin.

VI. CONCLUSION

This android based project will do the task through the application. It will reduces the paper work. The admin, faculty or the student will perform all the task very easily and more convenience way. The application offers reliability, security, time savings and easy control. It can be used as a base for creating and enhancing applications for viewing results, tracking attendance for colleges. 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. The proposed system will reduce the work time of the admin as well as the faculty. This will bring more perfection to the work. Simplicity is never simple. As we have seen in this project, the process of creating a user-friendly and straightforward platform that facilitates the administrator's job is one filled with complexity. From understanding user requirements to system design and finally system prototype and finalization, every step requires in-depth understanding and commitment towards achieving the objectives of the project. Although the student database management module is not fully integrated to the system and used on real time, the system prototype demonstrates easy navigation and data are stored in a systematic way. Overall, efficiency has improved and work processes simplified. Although all the objectives have been met, the system still has room for improvement. The system is robust and flexible enough for future upgrade using advanced technology and devices

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