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"JE Connect" Survey on Educational purpose Android app for tracking students Attendance, Performance with Parents Feedback System

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Abstract: The primary goal of this project is to bring mobility and automation to the process of managing student information such as attendance and progress at an institution. In the following real-world scenario, for example on a college campus, information is distributed between students and their parents in the form of bulletin boards, handwritten manuals, and verbal messages. Today, it is important not only to use predictable forms of statements, but also new forms such as mobile phone technology, to enable faster and easier communication with students and parents. The means of communication is Android. The central idea of this project is the implementation of an Android-based mobile application for further development of institutions and educational systems. The application is used by students, teachers and parents. In previous systems, all information had to be displayed on a hard file or on a website. On the other hand, when looking for academic information, it is too difficult to access and it takes a lot of time to search specific websites. Therefore, to solve this problem, you can use smartphone-based applications on Android to make this process easier, safer, and less error-prone. This system provides more efficient information.

Keywords: Android, mobility, technology, safety.

1. Introduction

As the world is made of modern technology, finding and mastering modern thoughts and ideas to bring everything online is changing rapidly. It can be tedious for teachers and faculty/administrators to distribute notes, record attendance, and receive feedback from parents about every student they teach at their institution. Connect your Android education app to parental feedback systems to track student attendance and performance. It provides students and teachers with an easy way to distribute notes and other activities, and parents can also keep track of their child's progress, including address her notes, assignment questions, address papers, and all important archives. increase. Instructors and students can transfer reports from anywhere and anyone can download them usually managed by an administrator.

2. PURPOSE

The main purpose of this project is to add mobility and automation to the process of managing student information in educational institutions. This system bridges this gap between parents and faculty. Contrivance scheduling manager that provides centralized control of the entire system. Different departments use this system to sequence different processes that are isolated from each other.

3. Scope

The The designed system is economical from the perspective of students, teachers and parents. The purpose is to provide parents and students with information from faculty. Developing an improved student information management system that helps solve the shortcomings of existing online note sharing systems. Our basic approach is to develop smartphone-based applications on Android, making this process easier, safer, and less error-prone. This system provides more efficient information. Access information related to colleges, departments, uploaded assignments, attendance, notes, results, discussion forums, and your daily schedule on the go.

4. Existing Systems

The Online Learning App is software for academic purposes. These programmers used an internet connection that allowed their smartphones to access and study online learning apps.
The technology has been researched and information exchange has become possible. Commonly referred to as learning apps for mobile devicesHowever, the following apps have certain drawbacks: The pattern cannot pass input to the teacher.The app has no record of student attendance and does not display student academic performance. However, through this app, app parents and students can see their participation in academic performance. Parents can provide feedback to teachers and students can review and download notes provided by teachers.

5. Proposed System

Internet learning app is an online programmer term used for academic reasons. Internet connection is used by this programmer. Smartphone users can use online learning apps. Information can be exchanged through this technology-based learning tool. The term "mobile learning app" is often used to describe this. The application allows teachers to distribute student attendance, exam results and notes. Students can view exam results and attendance history, and read and download teacher notes on the student login page. Parents can view their child's exam participation history and provide feedback to teachers on the parent login website.

6. Future of the project

Online learning allows both teachers and students to choose their own pace of learning. It also gives you the flexibility to create a schedule that works for everyone. You don't have to give anything away because the adaptation to the online education platform allows for a better combination of studying and studying. Basic time management skills that you can learn online make it easier to find a solid work balance. You can use online courses to learn and teach from her one location around the world

7. Literature Survey

7.1 TheDevelopment and Design of Student Management System Based on Network Environment Author: Zhi-gang YUE, You-wei JIN

This paper describes the methods of information management in higher education. Based on comprehensive research and analysis of student management in higher education, it adopts advanced information technology to create a college student management information model and build

a student management information platform. In addition, we will analyze the characteristics of information management in higher education and develop methods to solve the problems of student management in higher education. Finally, it introduces key methods and technologies for implementing an information management platform.

7.2 Android Based Attendance Management System Created by: Siti Aisah Mohd Noor, Norliza Zaini, Mohd Fuad Abdul Latip, Nabilah Hamzah

This document proposes how to register attendance using an application running on the Android platform. To do. Once installed, you can use this application to download the student list from her designated web server. Based on the downloaded list of students, the device acts like a scanner, scanning each student ID card individually to confirm and verify student attendance. The device's camera is used as a sensor to read barcodes printed on student ID cards. The updated attendance list is uploaded to an online database and can also be saved as a file for later transfer to your PC. With this system, it is possible to solve current problems while promoting paperless operations. The application can be used on the instructor's existing girlfriend's Android device, so there is no additional hardware cost.

7.3 The Exploring and Implementing Web Services on Android Network Communication Framework Volley Authors: Yang Shulin, Hu Jieping.

This paper contains a combination of web services and mobile devices that facilitates the development of mobile applications. The Volley framework proposed by Google in 2013 has the advantages of convenient usage and fast network requests, but does not support web services. An extension of Volley to support web services. This not only facilitates web service application development, but also improves web service access performance. Based on the analysis and research of Volley, Ksoap2 and Java web services, the implementation of the Http stack interface and the extension of JSON object requests achieves web service support.The schema uses the JSON format to send data. , supports S. Set or get SL/TLS protocol requests, custom parameters, and request headers. This scheme is compatible, easy to use, and suitable for applications on the Android platform.

8. System Architecture

The overall system design consists of the following mo
(a) **Faculty/Administrator Module**: In this module we are authenticating the users by providing user name and password. If user name and password is valid then they will be taken to their static screens. When they get matched with each other, system checks their status and transfer the control to respective user-interface. Faculty can share the students information like the attendance, performance and the academic notes with students. The attendance and result is share with parents they only can see them not manipulate them.

(b) **Students Module** :The students will be able to download the notes and the result and also the attendance. Students are only read and download the stuff uploaded by the faculty

members but they are not able to manipulate the given data.

(c) Parents Module : The parents module is the key module in this project . It separates the system from the existing system. In this module parents are able to see the attendance and the result or the progress result of their child. The module contain the feature of giving feedback to the faculty member and the chat between the parent and the faculty is only between them for the privacy segmentation.
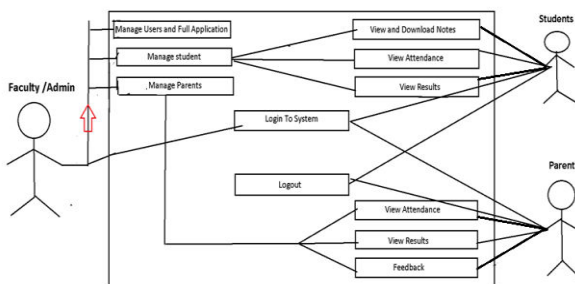

Fig 1: *System block diagram*

modules:

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9. Conclusion

The system offers reliability, time savings, and easy control. Students and their parents can also use this application to view scores, attendance, and curriculum details. Plus, students can view details and notifications anytime, anywhere. This application greatly simplifies and accelerates the results handling and management process. It provides high security and a system that reduces conventional man-hours and resources.The proposed system offers a new way to compute and display operations with a responsive and attractive user interface.

Therefore, based on the literature review and analysis of existing systems, we conclude that the proposed system not only supports the automation of universities, but also helps the digitization of the system and efficient use of resources

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Benefits

• Adds mobility and automation to the process of managing student information and academic progress.

• The application greatly simplifies and speeds up the process of communicating results and parents.

• The system is easy to use, safe and convenient.

• Only authorized personnel can access.

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