Parent Teacher Interaction Application
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Abstract:
In this system we are going to develop a mobile application for parents, teachers and drivers. This application includes four modules namely parent, teacher, driver and admin (website). After the registration procedure, suitable credentials are received by the users, which they further use it for login purpose. Admin is able to upload the results of students, which can be viewed by the parents. Notifications such as the meeting schedule, events, Dress code, alerts etc. are send to the users on timely basis. Functionality to update attendance is provided to the teacher. Teachers can also upload different documents related to sample test, sessions, guidelines about homework and presentation on techniques in which parent can teach particular topic to their children. Parents are able to download the uploaded documents. Functionality is such that, driver can scan the QR code of the student, after which student’s parents get notified about the location of their children.

Index Terms: utilize databases, accessing of records centralized, android application, add mobility and automation

I. INTRODUCTION
Changes in Information Technology (IT) allow schools to utilize databases and applications thus, making the accessing of records centralized. One of the changes that came about is the online-based applications. These applications are an improvisation to the traditional- transaction processing systems. Thus, most universities switch to the online system because of its efficiency to acquire process, store and retrieve information from the Internet [4]. The Student Information System (SIS) would be a new way of record management and transaction processing that would achieve efficiency on processing student information. It would be a great help to the administrative personnel, academic personnel or stakeholders and students in updating, retrieving and generating student data. The developed android application will be used by teachers, students, parents and the administrator who maintains the system. The students will use the application to enter their personal and academic details, post their queries regarding a particular subject on the respective discussion forum and for viewing notices broadcasted by the teachers/admin. The teachers can verify the details entered by the students and after the placements, the teachers can enter the placement details for each student. They can broadcast the changes in schedules or any new upcoming events to the students. Also, the students as well as their parents will be informed about the attendance percentage periodically through the application. The administrator has the authority of modifying the student details, adding or deleting teachers as and when they get admitted to the college or leave the college. Thus, this application will automate the manual student information maintenance process in colleges. It will also reduce the amount of paperwork done and time invested in manual process by the teachers. Parent-teacher communications have been considered having an important effect on children’s education. The education authorities devote to induce parents participating in the school management and build effective communication channels between parents and school teachers in many countries. Researchers suggested that students’

II. DRAWBACKS OF EXISTING SYSTEM
An Android application similar to Student Information System named VIT-Live already exist in the market. VIT (Vidyalankar Institute of Technology) uses VidyalankarLive (VLive) which is an academic oriented social networking website created based on the concept of community portal. It is internal portals utilized for interaction between students, faculty and other staff members and remains abreast on various on-going events [6]. VIT-live app provides a lot of functionalities. However, it has certain drawbacks too:

• The content is not well organized and hence difficult to understand.
• A lot of searching is required
• Notifications do not pop up, every time student has to search through every event to know about new announcements.
• Students from one class are able to view and edit forums of some other class, which can result in ambiguity of displayed information and create confusion.

Overcoming of drawbacks in the proposed system:
• Content will be well organized. Each category of user will have a different interface.
• The searching overhead will be drastically reduced as a result of maintaining a separate discussion forum per subject for every class.
• Only the notifications relevant to a particular user will be delivered to the user.

III. PROPOSED SYSTEM
The objective of the design of a new system is to automate the current 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 will keep the information on a central server while allowing users to access that information from their own Smartphone through the installed android application. There will be an optimized database on the server and an improved user interface on each client machine i.e. on the SIS app installed on the user Smartphone. The developed application will be
used by students, teachers, parents and the administrator. The functionalities of the proposed system can be divided into four well defined modules:

1) **Admin:** Given that the user has downloaded the application, then the user should be able to register through the application by providing the details required for registration. After registration the user can login into the system by providing the user id and password. Admin is able to upload the results of students, which can be viewed by the parents.

2) **Procreator:** In this module parent can see the student result, fees structure, attendance, and extracurricular activities. Notifications such as the meeting schedule, events, Dress code, alerts, placement Notifications etc. are send to the parents.

3. **Preceptor:** Subject teachers for each semester are required to enter the attendance details of students. The system should be able to generate attendance reports (for lectures and practicals) for individual student for each subject. These reports will be sent to the student as well as his parents periodically. The teacher can also view the attendance record of students during a particular interval. If the attendance of some student falls below the threshold value, then the particular student should be notified regarding the same. Notices can be posted by teachers from their respective login and can be viewed on a notice board section of the application with title for a notice associated with it. The notices for a particular class will be broadcasted to that class only.

4) **Cabbie:** In this module the driver scan the identicard of each student, providing a unique QR code. And parent and teacher can track the student.

**IV. BLOCK DIAGRAM**

![Block Diagram](image)

**V. TECHNOLOGIES USED**

### Android XML

For user interface, Eclipse (version MARS) android application development software will be used. XML will be used for designing the Graphical User Interface (GUI).

### JAVA

Java will be used for connecting various components of user interface to database system.

### MYSQL and PHP

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.

**VI. ADVANTAGES**

1. Reduce manual work.
2. Increase better communication.
3. Increase E-paper work.

**VI. CONCLUSION**

This System provide a better, faster and efficient way to make communication between parents and college as well as help to done e-paper work like file downloading and uploading of the student. This Application investigated the determinants the importance of using smart device messages as parent-teacher communication medium. From the results, the perceived usefulness is an important determinant to behavior intention in both models. It Finds better way to communicate and keep in touch. This paper assists 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.

**VII. REFERENCE**


