Android Application to Connect Tutor and Scholar
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Abstract:
There is a tremendous increase in users with an Android-based phone, Smartphone and tablet computers. This application provides a generalized solution to monitor the various works that are carried out by a Department of College for managing it. This app will be used by students, lecturers, HOD. It can be used by educational institutes or colleges to maintain the records of students. Application deals with all kind of academic related reports, department details, curriculum, batch details, placement details and other resource related details too. This proposed project will be implemented in applications such as online study material, notices, results and attendance, timetable using Android applications. Many techniques and languages are used for implementation such as Android, Firebase.

I. INTRODUCTION
The design and implementation of an ambient student information system and user interface is to replace the current paper records. Department Staff are able to directly access all aspects of a student’s academic progress through a secure, online interface embedded using. By Department app, previously, the college relied heavily on paper records for this initiative. While paper records are a traditional way of managed student data and different work, there are several drawbacks to this method. First, to convey information to the students it should be displayed on the notice board and the student will have to visit the notice board to check that information. It takes a very long time to deliver the information to the student. Paper records are difficult to manage and track. The physical stress required to retrieve, alter, and re-file the paper records are all non-value added activities. This system provides a simple interface to maintain the student information. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this purpose is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this application. The paper focuses on presenting information in an easy and intelligible manner which provides facilities such as profile creation of student, professor, principal and higher authority thus reducing paperwork and automating the record generation process in an educational institute. All data is stored securely on Firebase managed by the college administrator and ensures highest potential level of security.

II. LITERATURE SURVEY

Paper 1:
A Survey on “Smart Connect” an Android and Web Based Application The proposed Online “SMART CONNECT” An Android and Web Based Application that Manages College System is designed to provide more easier way to the users to add and retrieve information quickly. Once the user open this Android and web application, at the front end all the schedule/event are available to everyone in a precise manner. There are mainly five types of users. They are Student, Lecturer, Higher Authorities and Administrator of the college. The administrator is the master user; he gets the most number of priorities than the other users. He different functions involve in the case of an administrator are updating college information, approval, events etc. The administrator can view and approve the various records. Students can use the Android application with the some authentication. Students can view and enter information around the clock and from any location. Students can edit their Profile, and update them constantly. Students can very flexibly search for other student and view College schedule and details, and interact with other student and also Lecturer via messaging. They can also send a feedback to higher authority. A registration of Student is done by the class Lecturer. Student will be kept in touch by an automated notification by message. They will have access of forum, with which they can post queries, reply queries. This will help the student as there will be sharing of ideas by wall. Students on notification will also use the system to read important announcements, to obtain information on performance to see the results of assessments recorded in the system. The Lecturer can also use the Android application with some authentication. Lecturer can edit their Profile, and update them constantly. Lecturer can view College schedule, events and details. They can take Attendance using the application, and also update the performance of student. Lecturer have authority to provide an authentication to student, also interact with students via messaging. Lecturer has access of forum, with which they can post queries, reply queries. This will help the student as there will be sharing of ideas by wall. Higher authority uses the web application and can assign specific work to the Lecturer. The higher authority can set the events also send a queries on wall and the very important thing is that they can read the feedback which are sent by students. They can sent the queries to student, Lecturer and can see the performance of overall class or particular student and also interact with them via messaging. They are second higher authority who will control the departmental work. Administrator is connected with this system using web application. He has centralized control on this system. He will have the authority to allocate the higher authorities to various departments. He can check the department wise performance and send the queries on wall and also interact with
others via messaging. He arranges the events, set the notices using this system. The Student can view performance easily using this system. They can send queries to the management and also get information about events organized by college.

**Paper 2**
The KES International professional organization organizes annual conferences on Smart Education and e-Learning, beginning in 2014. The first annual international conference on Smart Learning Environments (ICSLE) was also held in 2014. Additionally, the Springer open international journal on Smart Learning Environments was launched in 2014. One of the most well-known national initiatives in SME area is the Smart Education Initiative (SEI) in South Korea. “Smart education has been a topic of conversation in all Korean schools since June 29, 2011 when the Korean government announced its smart education initiative. … First, smart education calls for a new pedagogy. That is, the new pedagogy should not just deal with letters and numbers but also address sounds and images together with all other types of multimedia. Second, Lecturers and students as workforce have the same importance in classrooms. Third, a resource-enriched learning environment will be implemented in the form of content cloud where Lecturers and students can freely and safely upload and download open educational resources and content together”. In general, it presents a paradigm shift from traditional education to SMART Education, that is an abbreviation of Self-directed, Motivated, Adaptive, Resource enriched, Technology embedded education.

**III. METHODOLOGY**

- **Admin module:** In this module, user has to first register. User will be moved to the register activity after clicking register button on Login screen. User has to register either as scholar or tutor with valid credentials Username, Email-id, Mobile number, id, Password and Confirm Password etc.

- **Lecturer Module:** If the lecturer wants to upload assignments, Show Time Table to students the can easily send this information using this application.

- **Student Module:** If the user wants to download assignments, having seen any notification, they can check easily after login successfully.

**IV. RESULTS AND DISCUSSION**
V. CONCLUSION

This application 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. The data which is stored in the repository helps in taking intelligent decisions by the management. So it is better to have a Web and Android Based College Management system. All the administrator, authorities, faculty, student can get the required information without delay. This system is essential in the colleges.
VI. REFERENCES

[1]. Springer International Publishing AG 2018 V.L. Uskov et al. (eds.), Smart Universities, Smart Innovation, Systems and Technologies 70.


