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Review Paper "Connect Studiez Insight" Android Application on College Management System

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Abstract: ***In today's age of advanced mobile technology, this has become our daily routine to prefer applications to websites while working. In comparison to a website, applications are easier to use. As a result, our project proposes a software called "Connect Studiez Insight" which will provide students and staff with exposure to all of our college's insights. Students and staff will benefit from this application since many administrative and academic tasks will be efficiently managed. This app will be a copy of our branch. Students can use this application to acquire information on University Results, Exam Time Tables, and various activities that will be held in college by simply clicking on the appropriate tab. Students will be able to maintain a copy of all key documents they submit to the college. The feedback system is the most essential aspect of this application since it allows students to provide feedback and raise concerns under several topics. While the system is designed in such a way that the student's name remains anonymous, implementation will be a time-consuming process. This application's distinguishing feature will be its focus on student-centered learning. It is the "Mera Sujhaav" a suggestion page, where students can submit recommendations for events, seminars, and other activities that they would like to participate in. As a result, we're concentrating on developing a project that provides the most efficient, dependable, and flexible solution for the Institute's day-to-day operations.***
Keywords: Android Technology, Cloud Fire Store, Admin, Notification.

I. INTRODUCTION

When there are numerous messages, documents, assignments, links, and other items in a college group, chaos ensues. It becomes tough for a student to sort through each of the messages to obtain the documents, check the timetable, download the results in pdf format, or whatever else they require at the time. To address all of these issues, we developed an Android application with two user interfaces.

The student/admin must first connect (or sign up if they do not have an account) on our application. They are directed to the Dashboard, where we have grouped all of their requirements into six categories: Time Table, Result, E-Book, Documents, Feedback, and Mera Sujhaav (Suggestions). So, whatever is the student/ teachers requirements the can easily go the section and directly check the update, event, notes , and a lot.

This application will assist students in checking their timetables but also their results of RTMNU/UT/PUT. On the other side, the admin can upload the UT/PUT timetable and result. The learner can look through the E-Books that Admin will provide a link for. The student can also provide anonymous feedback and Mera Sujhaav (Suggestions), which will be highly beneficial to an introvert student. They can suggest whatever activity they would like to have on campus, and the admin will be made aware with their name in the Suggestions area. If a document or notice is uploaded, the student will be notified. In the application, the section of feedback system allows the student to give feedback, which depends on him. If they want their identity to be hidden they can go for Anonymous feedback or if they want their identity to be known they can go with Known feedback.

This application makes it extremely simple for a student or instructor to manage college work, as well as for teachers to identify difficulties encountered by students or their needs in a straightforward manner.

II. LITERATURE SURVEY

There are a lot of researchers who aimed to provide a different way to monitor the work that is carried out in college. The enlisted papers below are the one which contributed toward the topic:

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The reference paper we came across presented an android application whose major goal was for the student to access assignments, notes, news & events, check exam timetable & daily timetable[1][8] & these application were also able to communicate the student's result & attendance with their parents[5][7].Other applications comparable to this included the ability for students to ask a question and receive a response via remark from their professor, as well as they were being notified of new books, periodicals, and novels that were available at the library[9].The reference work concerned an application that assisted in being alerted about placements, holidays, and special announcements, as well as a feature that allowed for spoken conversation via real-time, filtering interaction, and CMS b-crypt[2].Another system featured an extra login of alumina, and the extra functionality they had was on storing data of the student and alumina's journey[3] using SQL Server. The reference paper[6] included an added feature in which the teacher provided link to other courses that he thought would be valuable to his students, and also they were allowed to store the certificates for the courses or any activity. Firebase is an web based application. It is NoSQL based. It is the backend of a system that is used as a database for storing data. It stores the data in JavaScript Object Notation (JSON) format. It provides us a lot of features which are easy to use. It helps to make our application faster and efficient. Also firebase provides us a secure channel to communicate with database directly with Java[4].

III. PROPOSED WORK:

Connect Studiez Insight (CSI) is a user-friendly android application that is to be used by students and teachers. This has two user interfaces, Admin and Student.

The user (Teacher/Student) if they don't have an account they need to Sign Up first. The details of the account are stored in Cloud Fire Store. As they Sign Up, their account will be created & firebase auth will create a unique id for each account.

As they log in, the Admin/Student is directed to the Dashboard, which is divided into six sections. The "Timetable" and "Result" sections are further subdivided into UT1, UT2, PUT, and RTMNU. The admin is in charge of updating UT and PUT information, and the student is notified of this. The student can view the pdf of their particular requirements if it's timetable or result, and the RTMNU section directs them to their official site, where they can view their timetable or results. This is helpful at the time of clearance.

The CSI has a section called "E-Books & Notes," where the administrator can upload a pdf that he believes will be beneficial for his students to acquire knowledge and for better understandings. The student on the other side is notified of the update. This is helpful during the exams where he can open the notes shared with him.

This application is useful for an introverted student, who finds it difficult to express any subject-related concept or needs a quick revision on any topic. All they have to do here is type their question in the section titled Feedback. It also has been subdivided into two other sections, one anonymous to keep their identity hidden, and the other known feedback for which the student must fill out their name with feedback, and admin will be notified regarding the upload. The Advantage of using anonymous feedback is, students can file the problems they believe should be addressed & the teacher doesn't need to keep yelling and waste their time asking every student if they are facing any issue or having any difficulty.

There is also a section for suggestions called "Mera Sujhaav." A student must enter his or her name and make a suggestion, for instance, if they want a workshop/webinar/extra lecture on any subject or a fun activity to be held on their campus. The administrator will be notified of the requirements.

The best part of CSI is the section "Your Documents," where a student can store important documents such as mark sheets from all semesters, resumes, and so on. However, he is limited to storing a maximum of 15 documents. By doing so, he will save time during the clearance or interview process. And on the other side of Admin Interface, they will have the section of "Activities", where the admin will update regarding the activities/ events/webinar that is going to be conducted in college. And the student will receive the notification in the Navigation Drawer.

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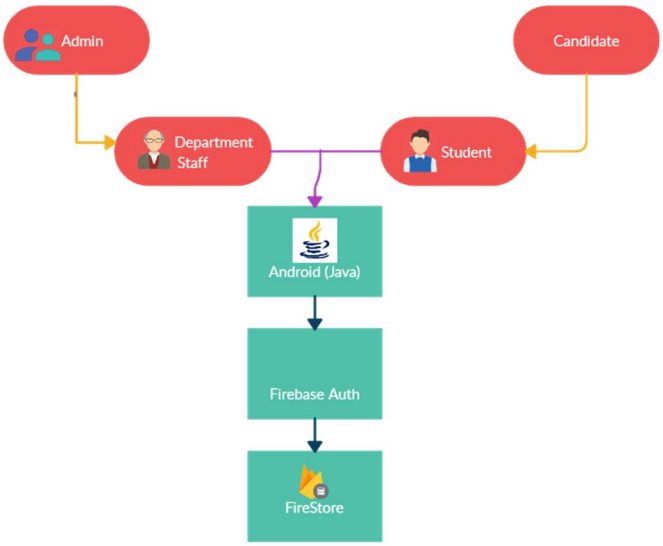

Fig. System Architecture

IV. CONCLUSION

The suggested system CSI will be useful for both students as well as teachers. It will save both of their time and help to create a bond between the teacher's and students' understanding. This will keep all of a semester's important data in one place. The teacher would not have to wait for the student to respond to any queries as they will be sharing them through feedback. A student will benefit from it and save time during clearance & examination. The application will aid in keeping students' day-to-day challenges in college managed and their needs met.

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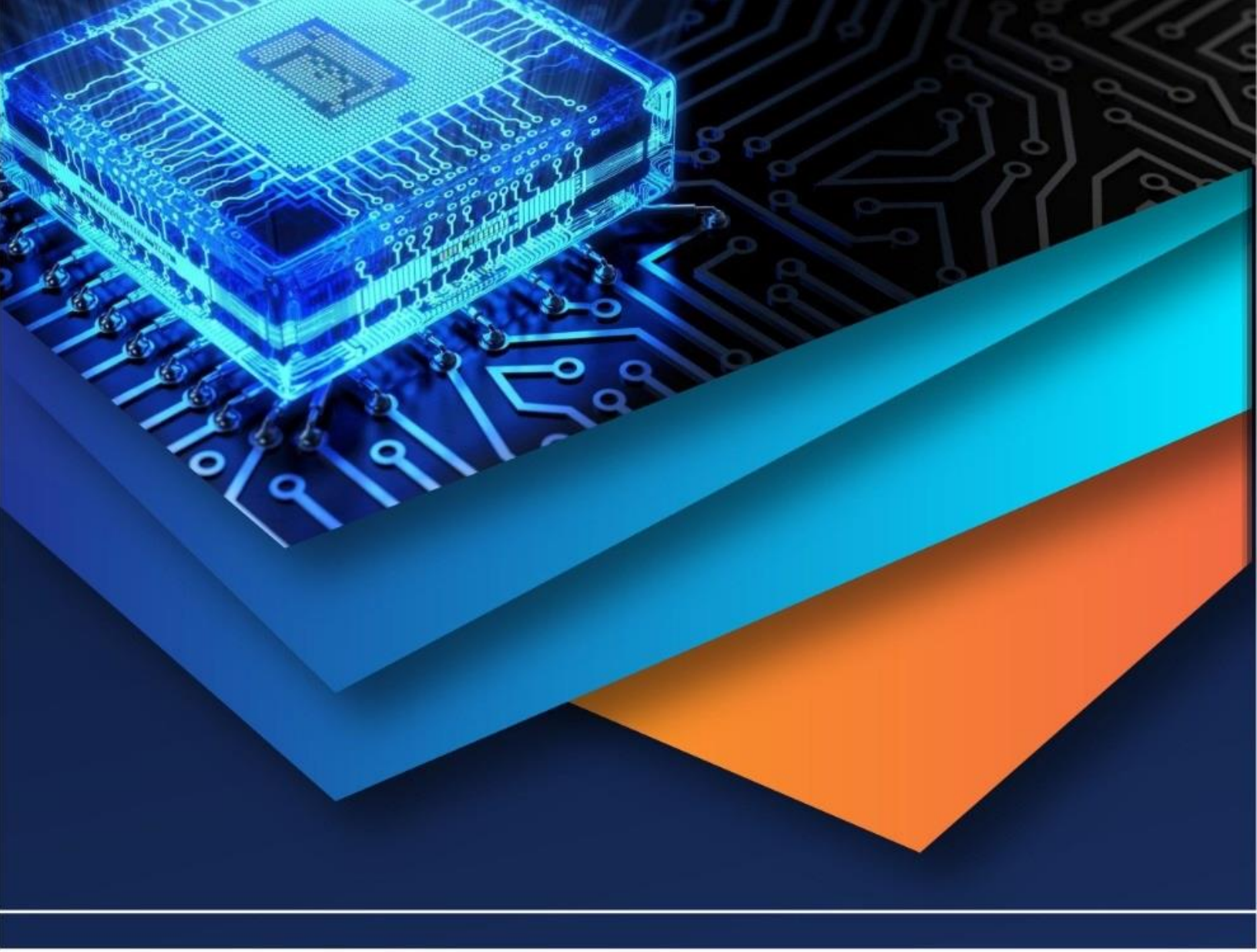

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