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E-Byte: An Android App for College Magazine Management System

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Abstract: ***The Android application for College Magazine is an android app which is useful for students as well as the college faculty member and other academic staff. A college magazine works done manually. Paper based work is so time consuming. The main objective behind the use of Android App for College Magazine Management System is easy supervision of the Institute .Through our application students can search the college magazine using Android mobile. The department magazine coordinator is authorized to log into Magazine Management System database backend through administrator user id and password and update and create the magazine.***
Keywords: Online Magazine, Android, Faculty, Student

I. INTRODUCTION

The vision of creating and managing EByte is managing College Magazine where college students and faculties can send and view various articles. Articles available in online magazine can be searched by anybody in the college. The main reason behind the creation of this system are:

A. All students do get the magazine printed.
B. Innovative thoughts and ideas of students needs to be nourished.
C. Creating a interactive platform where students and faculties can share their unique ideas in any field.

Our College Magazine Management System application has the ability to solve different paper work based problems. This application provides college a wide range of facilities like posting the different of any magazine posted by coordinator , College magazine viewing reducing use of paperwork and automating the all college purposes related to college magazine.
Using this application the college might simply inform the students and conjointly faculties will able to read the college magazine from there remote location. They can read all the magazine published by college simply using this College Magazine Management System application and they will send article to the college magazine coordinator.

II. EXISTING SYSTEMS

A. Byte Magazine

Byte magazine is a monthly news magazine published by CSE Department of IMS Engineering College. The byte includes latest trends in the fields of computer science and many more. All the faculty members and students are the part of this magazine.

B. Limitations of Existing System

1) The system doesn't provide any facility of getting feedback option from students or faculties.
2) Maintenance of offline magazine system is very hectic process.
3) The system doesn't provide any online platform for students to see the articles.
4) This existing system is not providing any secure platform for the college students.

III. PROPOSED SYSTEM

E-Byte is an online edition of the Byte magazine which educate us on latest technologies, articles, departmental events, literary and various career opportunities for the students. This magazine is a platform that where the teachers and students can show literary skills, innovative ideas.

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Following are the key features of our proposed system:

A. This application provides the facility to get all the articles in PDF files.
B. Application also provides facility to send and view articles by any student and faculty member.
C. System provides facility to registered users to view the data from any remote location.

IV. SYSTEM MODULES

As we have already discussed, there is different modules to design, but the whole structure has been divided in 3 parts

A. Front End
B. Database
C. Back-End

In the development of our application we have used following technologies for development of different modules

Module	Technology
Front End	Android, Java
Back-end	JAVA
Database	Google Firebase

V. CHALLENGES

While developing the apllication, the main challenge was to not leave any important task or module incomplete, for meeting this challenge, we did our research and studied how the whole process of Byte Magazine is being carried in our institute.
The second challenge while designing any App is its responsiveness and to ensure it supports all the Mobile Platform and multiple devices like Redmi , Realme, Nokia and OnePlus.
The another challenge while developing this platform was to ensure the security and integrity of process of the application. Because the security process of application is very important one and we must ensure that no mischievous element to effect its integrity.
The interactivity of user interface in our application has been our main focus and we tried our best to have the colour permutations that is suitable according to all the modules involved in our project.

VI. CONCLUSION

This paper proposes the idea of E-Byte, which focuses on completely automating the Department Magazine. We have discussed, how important to provides information about Latest IT Events, Departmental Activities. We have also discussed how frantic it is to follow the current offline method for the implementation and using different platforms for performing different tasks of the same process. And later we have described our process for automating and easing out the whole process with an extra layer of security. We have also discussed about the existing platforms which can be or are being used for performing specific task of the process and how we are extracting useful features and customizing them as per the actual requirement. And later we tried to explain how we have gather all the information to bring all possible features to meet the requirement and make our platform stand as one among the crowd.

VII. FUTURE WORK

At present, we are working on a Web application that supports all kind of devices and have also ensured to limit certain features like chats and Media gallery. Ensure the authenticity of our platform and to meet security requirements as well.

But for future, we have plans to launch different platform apps like IOS. And we are also considering to include certain features that does not have direct impact, but play major role indirectly, like online Courses, team meetings, assessment of Article etc. These tasks have a great impact on any student's Knowledge and Extra Curricular Activities. Thus we are contemplate to automate and bring up these features on our platforms.
We have to also to work on frequent updates of this platform even after our B.Tech, so that it more useful for the users using it.

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VIII. ACKNOWLEDGEMENT

The undertaking of application was done at the B.Tech venture at the Department of Computer Science of IMS Engineering College, Adhyatmik Nagar, Ghaziabad. The work has been directed by our internal mentor Dr.Suveg Moudgil who is also Associate Professor of the Computer Science Department. We are really thankful to him as he was actively involved in the project with his key inputs that has played vital role in developing the project. We are also thankful to Ms. Sapna Yadav, who is Associate Professor at IMS' Computer Science department. The database has been developed and optimized under his guidance and his suggestions and inputs proved to be of great help for us. We are also thankful to Dr. Pankaj Agrawal, who is Head of the department of Computer Science of Engineering at IMS, Who provided us with necessary resources like server, database and technical assistance which were the necessary requirements of the project.

The project could not have been successful without their help and guidance and we are very thankful to them and they own majority of the credit for the platform being developed.

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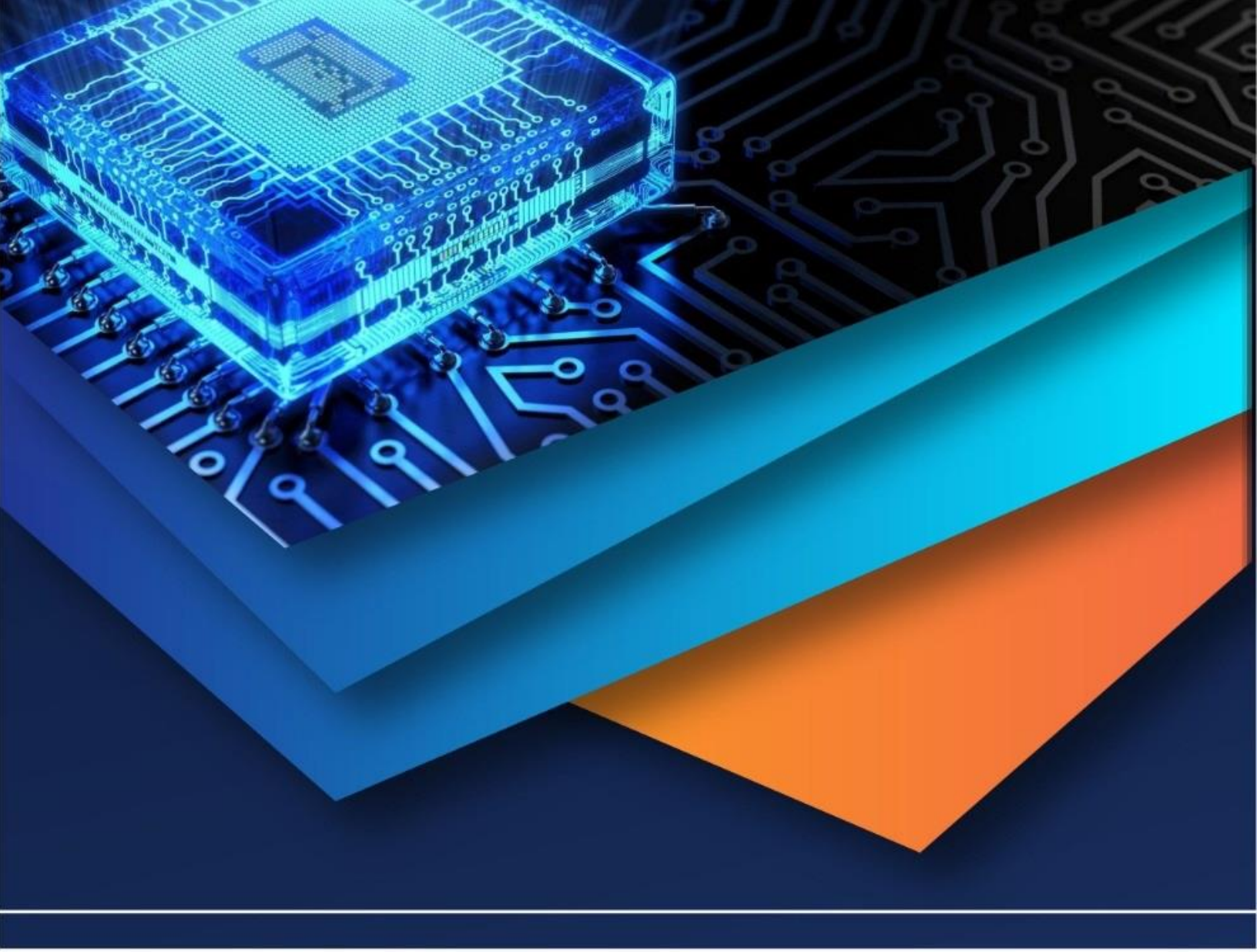

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