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An Inter College Converse Platform to Deepen Student Collaboration

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Abstract: ***The Collaborative converse platform is developed to keep up college activities details like technical events, specialized webinars, placement support, workshops, project expo and courses and many more. It provides information on such events, keep up students' participation and it keeps up branch details sports details, and furthermore gives the college accomplishments. In the current framework, all the information needs to be viewed in hard copy format. As a result, accessing specific data becomes challenging and time-consuming, leading to delays in decision-making. To address this issue, a web application can be used to simplify and secure the process, reducing the likelihood of errors. This would also enable efficient storage and retrieval of data through the system, thereby enhancing data security and reliability.***
Keywords: Technical events, placement drives, college details, project expo, accomplishments and so on.

I. INTRODUCTION

This is a web-based application that provides access to information about technical events, webinars, placement support, workshops, courses, and projects in a college, based on respective departments. The application is user-friendly and designed to assist students in obtaining information about college events, including upcoming events. The admin maintains student records, event timetables, and updates information related to college events. However, manual maintenance and updating of records increase the likelihood of errors and pose security risks, and the system cannot provide various types of reports.

To address these issues, a new framework has been developed that integrates the database approach to streamline the process. Placement season can be stressful for final and third-year engineering students as multiple placement drives take place. The placement coordinators or officer can help provide students with critical information on how to prepare for the placement season. Training and placement are crucial components of every educational institution, but most of the work is still done manually.

A. Existing System

Nowadays, most students enroll in college for better education and career prospects. The success of placement activities is crucial for students' career growth and the reputation of the college. The implemented website serves as an event management portal with a range of features such as remote creation, removal, retrieval of event information, as well as task allocation to different participants. The project provides comprehensive access to the administrator and all individuals associated with it. However, the existing manual system for managing training and placement activities is prone to errors, especially with an increasing number of students. The system also lacks secure registration and profile management, and the process of keeping and retrieving information is tedious and time-consuming. Moreover, the collected records are not maintained systematically, and online help is not available. The manual system also does not track user activities and progress, which is a significant limitation. Additionally, data security is inadequate, and mismanagement can lead to data loss. Furthermore, the system does not support event management through the internet.

B. Proposed System

In the day-to-day life of college, most colleges organize technical and non-technical events that provide opportunities for students to gain knowledge and enhance their skills. The project can be used for various events offered by colleges, including placement drives and other events. This feature enables students to access event information online and sign up as volunteers for events.

The system can upload information related to the event in the form of text, audio, video files. We have developed a new system after identifying issues in the existing manual system. It is easy to use and also time saving. it is easy to use Web application in which Student coordinators, Staff coordinators can view all the necessary records. Participant students can view details and get placement support. maintenance of previously collected records becomes easy and effective communication between staff coordinators and student coordinators.

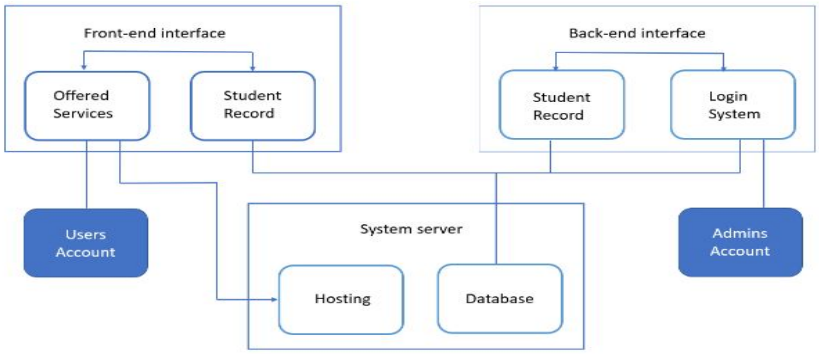

Fig. 1: Block Diagram

This project is a converse portal that is implemented is on a website. The project gives feature of remotely creating, removing, data retrieval, allotting tasks to different participants, etc in an event. The built project is capable of providing all the important access to the administrator and all the people related to a particular event. The participants and their friends can view these files on the collaborative converse platform. The project brings the entire manual process of college and student activities online.

II. ARCHITECTURE

The collaborative converse System acts as an interface between campus recruitment cell and students. Here students can retrieve the details by logging into the website. Some circulars regarding ongoing placement drives which are provided to the students who are going to attend campus placements. This system also provides facility to administrator to update details of students and retrieve their data.

The admin's tasks include updating and approving various application forms, and they can also view and approve them. There are two types of students: Current Students who can enter and review data, and Alumni whose data is maintained for the last three years. The Placement Support System automates all processes, including online registration, user activation and deactivation, personalization, resource provision, communication, feedback, and settings. The admin can validate user information, generate student lists based on company criteria, provide company details to users, conduct searches and sorts, and generate reports. Alumni data is also maintained.

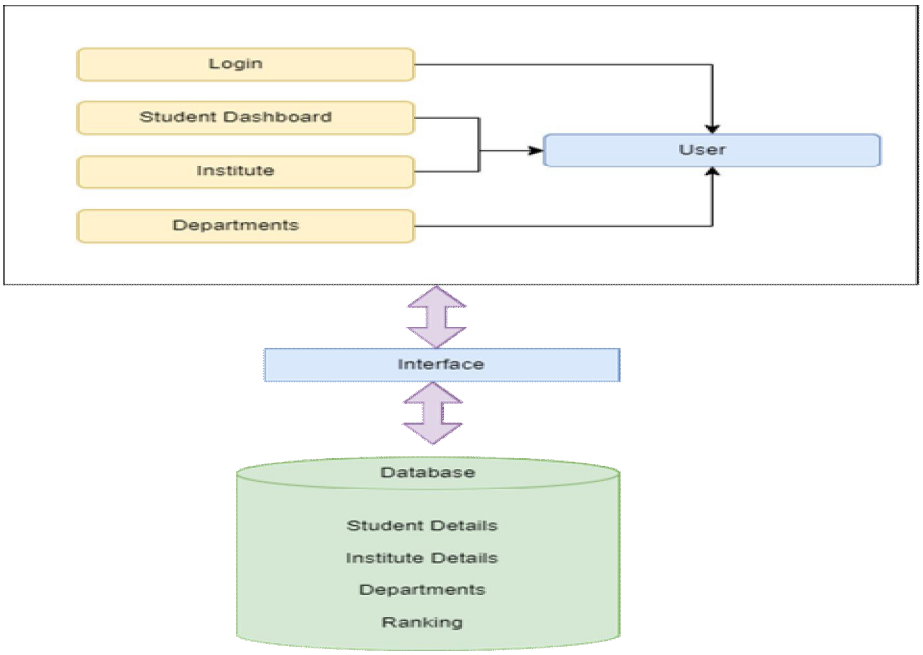

Fig. 2: system architecture

FEATURES:

The proposed website includes the following features:

1) Admin maintains the details of each student.
2) Students are able to view the status of their upcoming campus.
3) Search feature helps to administrator because they check particular student is there or not.
4) Only Admin is able to update student details and academic records like email id, current semester, correspondence address and marks obtained in different semesters via CSV file.
5) It Provides a complete communication channel between student and training & placement department using the SMS.
6) Current information and news about which company is visiting the campus is provided in the website which helps the students to get updated information quickly.

III. METHODOLOGY

The core part of the built system is its ranking system. The ranking system basically used to track your work done. Hence the staff can have a list of students who are practically knowledgeable and working towards something. Some of the latest methodologies used are:

A. *Visual Studio*

The Microsoft Visual Studio development system provides a comprehensive set of tools to support software developers, regardless of their level of experience, in addressing intricate challenges and devising inventive solutions. On a daily basis, software developers tackle difficult problems to develop software that has a positive impact on people's lives. The primary objective of Visual Studio is to enhance the development process, making it more straightforward and fulfilling to achieve those significant breakthroughs. By utilizing the Microsoft Visual Studio development system, development teams can streamline their work and create innovative solutions more easily and effectively. By utilizing Visual Studio development solutions, your team can increase productivity and quality.

B. *Nextjs*

Next.js is a frontend JavaScript framework that extends React's UI library and is designed to alleviate JavaScript fatigue by providing developers with all the necessary tools in a zero-configuration environment for building web applications. It is an open-source web development framework developed by Vercel that allows the creation of React-based web applications with server-side. Additionally, Next.js supports both client-side and server-side rendering, which results in better initial page load times and search engine optimization. With its growing ecosystem, Next.js provides libraries to help developers build and maintain web applications efficiently.

C. *Chakra UI*

Chakra UI is a contemporary React component library that offers a collection of reusable and composable React components for creating front-end applications. Its strengths lie in its simplicity, modularity, and accessibility, making it a powerful tool for developing accessible React applications and speeding up the development process. Chakra UI leverages Emotion and Styled System, which are style systems that provide an excellent architectural foundation for building UI component libraries. These style systems simplify many tasks and make developing a UI component library a much easier process.

D. *MySQL*

MySQL is a popular open-source relational database management system (RDBMS) used to store, manage and retrieve data for various types of applications. It is widely used for web applications, particularly those built with the LAMP (Linux, Apache, MySQL, PHP) or similar technology stacks. MySQL is known for its speed, reliability, scalability, and ease of use, and it supports a variety of programming languages, including PHP, Python, Java, and more. Some of its key features include support for ACID (atomicity, consistency, isolation, durability) transactions, multiple storage engines, and a variety of security and backup options.

1) *Working API*

Leetcode, GeeksforGeeks, and Hackerrank are popular online platforms that offer coding challenges and programming problems for students to practice and improve their coding skills.

While it's difficult to determine the exact percentage of students who use these platforms, it's safe to say that they are widely used by students who are preparing for coding interviews and looking to improve their coding abilities.

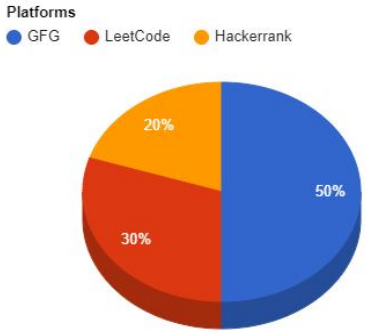

Fig. 3: working Api

The majority of students prefer to practice coding problems on websites such as LeetCode, GeeksforGeeks, and HackerRank. These websites offer a vast collection of coding problems, ranging from easy to hard, and provide a platform for users to submit their solutions and compare them with others. They also offer features such as hints, solutions, and discussion forums to help users improve their problem-solving skills. Many students use these websites to prepare for coding interviews or to improve their overall coding abilities.

Many computer science students and programming enthusiasts use these platforms as part of their preparation for technical interviews, as they provide a comprehensive set of challenges that test their knowledge of various algorithms and data structures commonly used in the industry. They also offer a community forum where users can discuss solutions and get feedback from other users, which can be helpful in improving their problem-solving skills.

2) System Diagram

The Collaborative Converse System, as proposed, aims to provide users with greater convenience in adding and retrieving information quickly. Upon opening the web application, users can readily access all the schedules and events available to everyone on the front end.

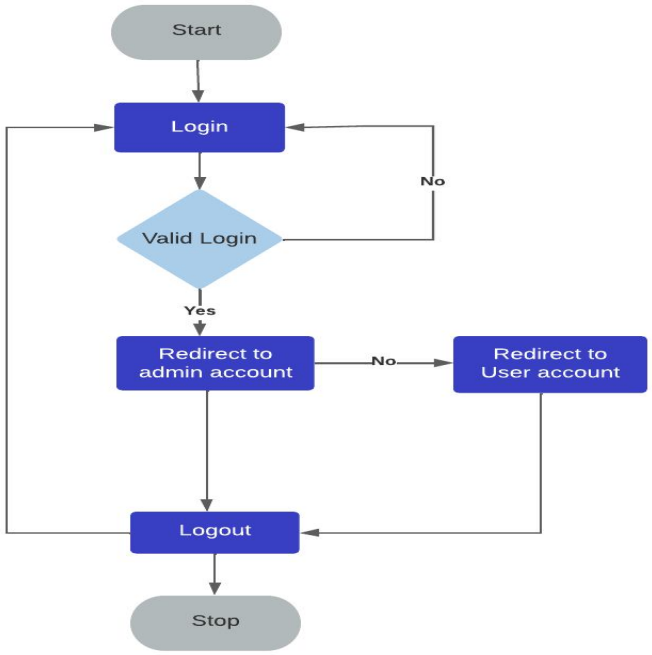

Fig. 4: Flowchart

IV. FUTURE ENHANCEMENTS

As a new system with ever-evolving requirements, the proposed System will require further enhancements in the future. These improvements may include developing a mobile version of the desktop site, creating applications for Android, iOS, and Windows platforms, as well as incorporating a feature for querying the server through mobile text messages.

V. CONCLUSION

In the existing system, most of the work is done manually, making it prone to errors and time-consuming when changes need to be made. The major issue is with searching, sorting, and managing student data, and there is no provision for notifying students regarding expected deadlines or announcements. The project set out to design and develop a platform that would engage students and build an effective network for innovation all over the institute. Also, simplified the process of students' collaboration.

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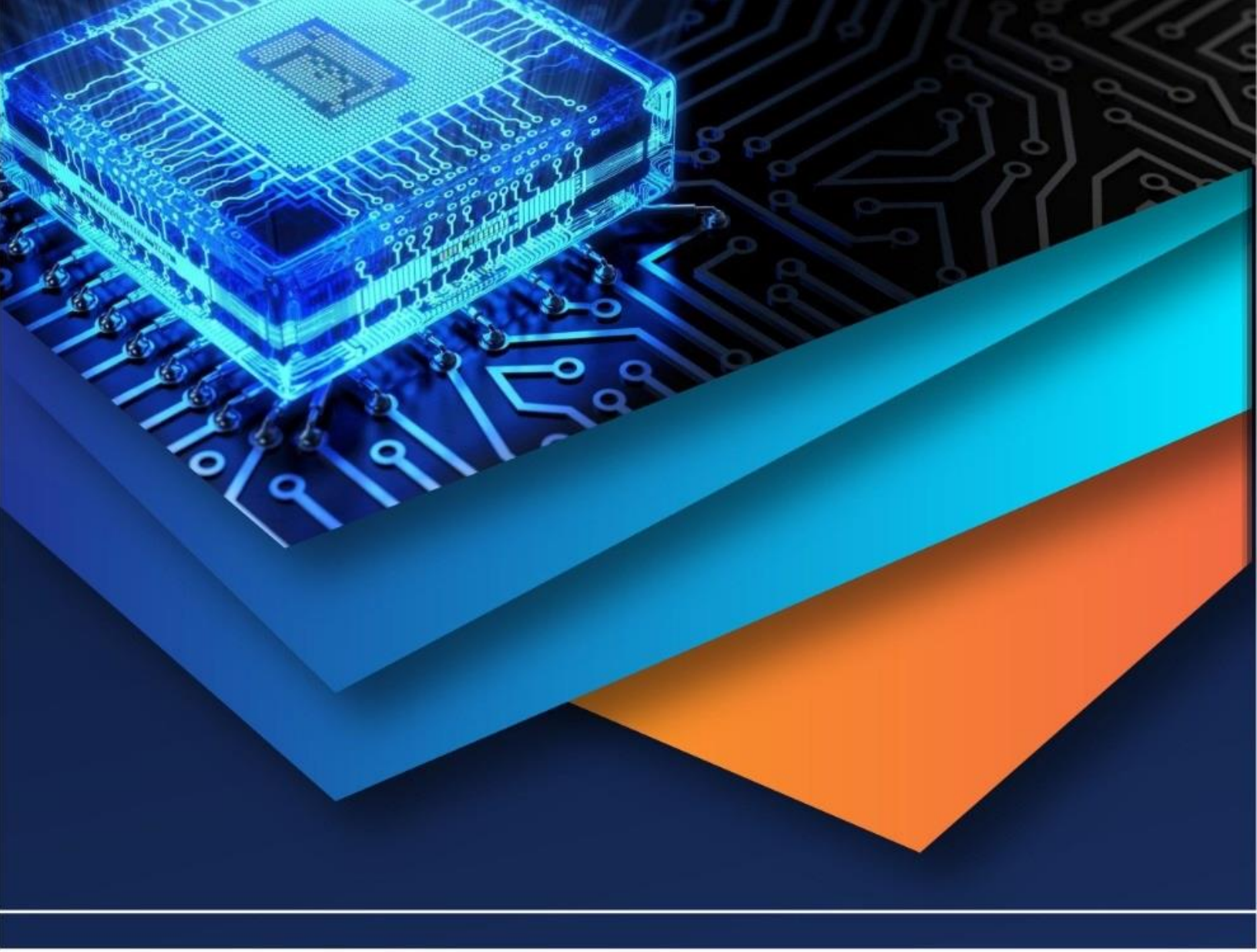

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