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A Research on Placement Management System

Alfiya Banu[1], Dr. Manju Bargavi S. K[2]
[1]*MCA Scholar, School of CS and IT, Dept of MCAJain (Deemed-to-be University) Bangalore, Karnataka*
[2]*Professor, School of CS and IT, Jain (Deemed-to-be University) Bangalore, India*

Abstract: ***The project is to create an application for a college's placement management system, which is mostly web- based. It's a web-based application built on the Windows platform for the college'splacement department to save informationabout its students in a database for firms to use in their recruitment process if they have the necessary login credentials. All of the necessary information about the pupils is stored in the system. The system saves all of the students' personal information as well as their technical skills, which are needed for a CV to be sent to an employer. The system can be used by institutions to manage student information and placement details.Students should be able to access their accounts and upload their work. This project helps students to keep track of their personaland academic information. It saves time by decreasing manual labor and reducing theamount of paper used.***

Keywords: Authorization, Admin, Student, TPO, Web development.

I. INTRODUCTION

Students in their final or third year of engineering college begin to feel the pressure of the placement season as there areso many placement events going on around them. They want to know where they standin terms of job prospects and what they can do to better their chances. The placementofficer comes in handy at this point. Theadministration gives students critical information on how to prepare for the placement season. When the majority of the work is still done by hand, training and placement are critical components of every educational institution.

The training and placement officer (TPO)shall report every training and placement-related activity to the number of pupils.

For both the training and placementdepartment and the students, a web application can be developed to make theplacement process easier and moresuccessful. This program establishes a regional network of training and placement cells, allowing each college and student tobe notified if a placement-related activity occurs at one of their colleges. This method can help placement officers provide information about new firms.

The Placement Management System is a web-based system for managing studentplacement. The website was created for students and professors at colleges anduniversities. It aids in the choosing of aninstitution, as well as giving academic support, policy and procedure information, and other useful resources.

Placement Officers are in charge of keepingtrack of the student's profile, records, and documents. The information must be gathered by the placement officer. There are a lot of companies that come to recruit. Theyneed to start putting student profiles together.

According to numerous streams, and alertthem whenever there is a modification that meets the needs of the company's placement officials offer student information, and any student's profile must be updated on a regular basis if there are any changes or additions. completed by hand This procedureis extremely complicated and time- consuming. There's also the possibility that data is absent. It's also difficult to collect, manage, and update student data.

Students are able to see and weigh their opportunities. There will be many types of accounts, such as Admin, Student, andHOD. The appropriate credentials are created for each student. The access point qualification standards imposed by the individual companies will be determined, and a list of qualified candidates will be compiled and interviewed. can choose whether or not they want to attend, test, or drive at that particular event. There's also thepossibility that data is absent. It's alsodifficult to collect, manage, and update student data. As the number of students grows, 'placement' becomes increasingly crucial. Students are able to see and weigh their possibilities.

II. LITERATURE SURVEY

The current placement cell methods and projects are time-consuming and difficult. Human involvement causes severalanalytical issues. Due to system flaws, these errors cause significant maintenance issues and student dropout. Manual labor makes documenting and categorizing extremelytough. These analytical techniques result in complicated administration and high analytical expenses, making the system costly and inefficient.

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It provides a simple interface for the easy collation and maintenance of all manner of student information. The creation and management of accurate, up-to-date information regarding students' academic careers are critical for students and for the faculties.
Maximum manual work in the existing system all the work is done by human intervention. Maximum human faces the interface between the student and administrator is maximum it is time- consuming due to the above problems every procedure becomes time-consuming. the records were stored in modified accesssheets hence the sorting problem. the files were not stored in hierarchical format hence searching problems. due to these problems, the updating was very difficult and ambiguous. Duplication of files due to the above problems, the duplication of recordsas usual hence data. the students may not getthe information on training and placementactivities hence they miss the opportunities. there were smaller amount interfaces between students and the training and placement department.
The number of users is steadily increasing. This is a tedious and time-consuming task. The suggested system is an online system that may be accessed with proper login credentials. Personal information,educational qualifications and academics areincluded in the student's record. This system serves as a central database for student data. This system can be used as an application bythe college's Training and Placement department to manage student informationfor recruitment drives.
Students can check eligibility criteria for upcoming placement drives based on their CGPA for a specific organization. The physical work slows down the process and causes complications such as the administrator creating users and the users using the accounts created by the administrator. When a user logs into his account, he can edit his information, which must be approved by the administrator. If theuser is a student, they can change their password, update their information, searchfor information, check their information, email the administrator, and read the contentposted by the administrator.
It concentrates on a user-friendly interface for updating student. in both universities andcolleges, the creation and management of reliable, up-to-date information about a student's academic career is vital. student information systems deal with a variety of student information, academic reports, college information, course information, curriculum, batch information, placement information, and another resource.
It keeps track of all a student's information, which can be utilized for reporting,attendance monitoring, course progress, completed semesters, and years. Various reports and queries can be generated depending on a wide range of variables for students, batches, courses, teachers, exams, semesters, certification, and even the entire college as proposed in [1]
The placement cell coordinates a variety of placement activities for pupils. they had previously worked on separate domains but are now fast approaching each other. they provide industry-institute contact in thisplanned work.
The system's flaw is that the industry isn't directly linked to the pupils. It made use of the institute interaction interface asdescribed in [2]
They conducted a study on in 2016. Thisproject only allows for one-time registration.Companies are contacted by the placement cell to pick their pupils and view this résumé. disadvantages are a term used todescribe the negative aspects of something. only email is used to send notifications as mentioned in [3]
They focus on providing a better way forstaff and students to make the placement process less complicated and productive. the database and Linux server are used toconstruct this application. PHP will be used to link the database to the application. It is not always easy to access information stored on the server because the server may be down for a short period of time as explained in [4]
It primarily focusses on offering a straightforward interface for the collectionand maintenance of all types of student data. it is vital for students, faculty, and administration at Sebha university in Libya, as well as any other educational institution,to create and manage accurate, up-to-dateinformation about students' academiccareers.
From enrollment until graduation, a student information system deals with a variety of data, including a program of study, attendance record, fee payment, and examination results, to name a few. All of this information must be accessible via an online interface as described in [5]

III. SCOPE OF PROJECT

This project covers a large vary of data of allthe students which may be stored within the format of CVs and are classified accordingto various streams. Various companies can access the data of students and they can maintain and update their information. Notifications are sent to students regarding the companies. Students can access previous regarding concerning.

1) View Student Profile
2) Company Page
3) View recruitment Schedule
4) View selected List of students

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IV. METHODOLOGY

A. Student Module

Once the student login, they can create and edit their profile. They can handle their profile by putting all the information. They create the profile by entering their personal, academic information, and also can upload his/her resume. They will come to know about forthcoming company through notification and student can be apply to the Company if student is eligible to the company. student can also view, download the visited company aptitude

B. Admin Module

He is the principal of the university. He is the administrator of this system. he is able toview the student details of all departments. he is able to upload the required material for the student. he can communicate with theStudents, HoD and Departmentalcoordinator through communication wall. He can feed the notification about the eventsthat will be conducted by the T&P cell, also about upcoming company.

C. HoD Module

Each department has a HoD. The HoD has access to the students' profiles for each department. He can get a copy of the student's resume. The communication wall allows HoD to communicate with other users. The notification will be forwarded to the HoD by the Admin.

V. ARCHITECTURE

A. System Architecture

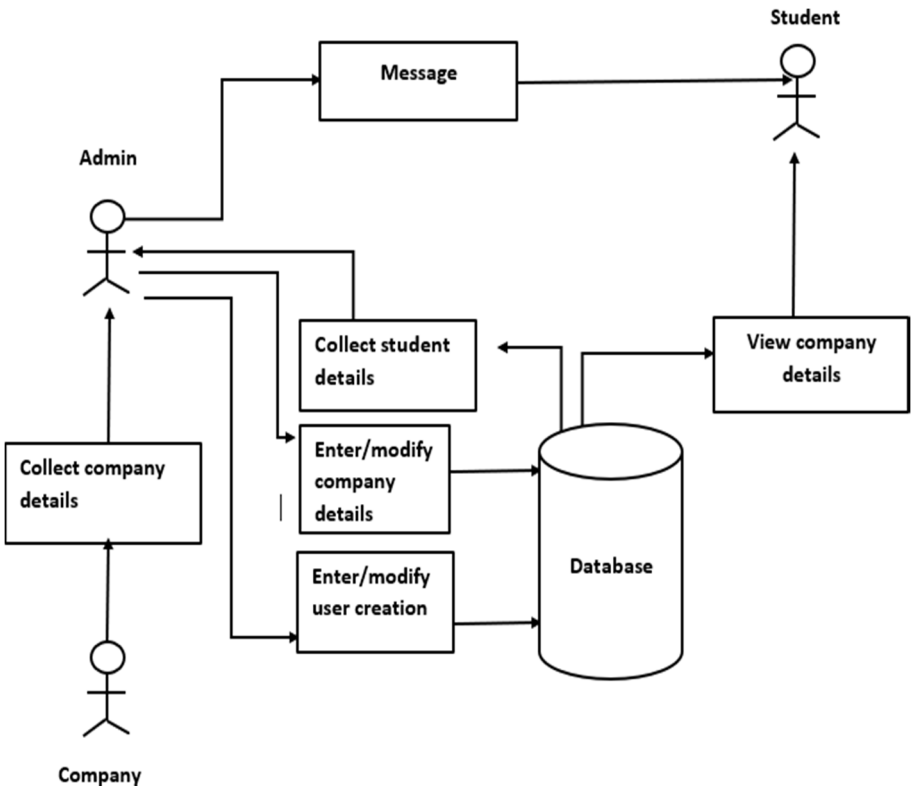


Fig 1: System Architecture

Admin collects the company details and the student details and stores them in the database. admin can create a new user ormodify an existing user. The admin can also send messages/notifications to students. The student can view the company details and drive details.

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B. Sequence Diagram

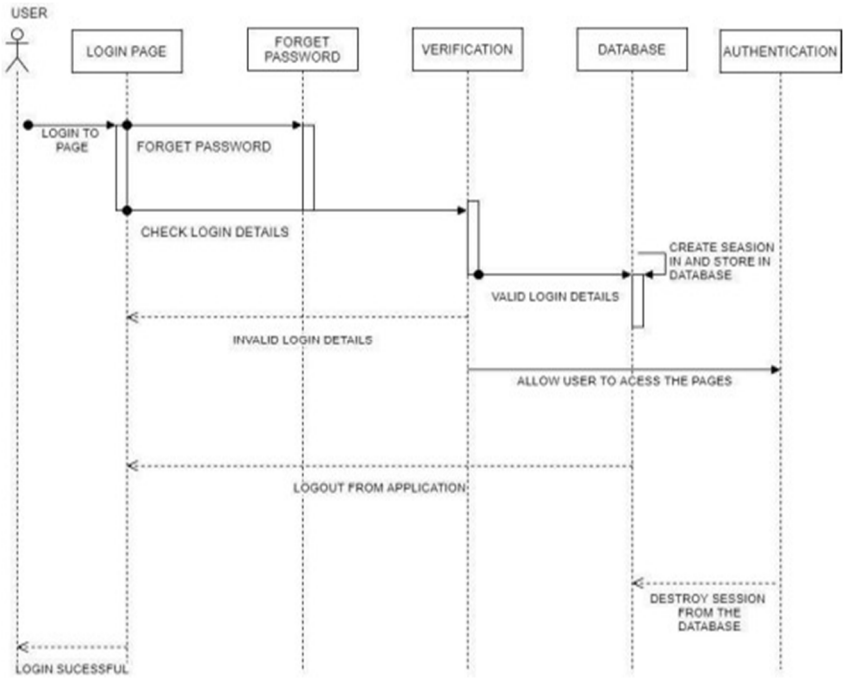


Fig 2: Sequence Diagram

The login process of the user into the system are explained in fig 2. The user tries to login into the system with his login credentials, if the credentials are verified from the database if found correct, he logins successfully if not he can use the option forgot password to reset the password and then login with the new password.

C. Class Diagram

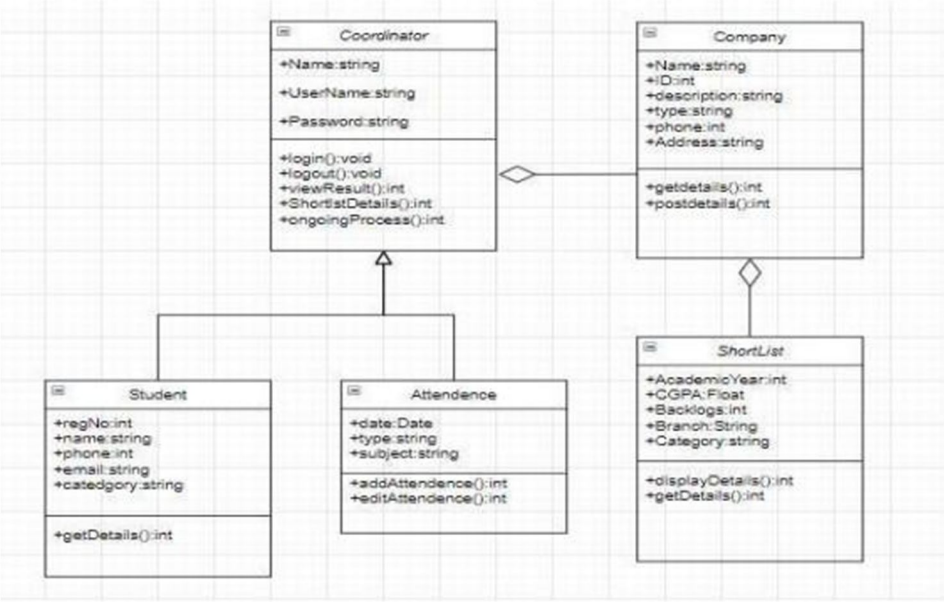


Fig 3: Class diagram

The fig 3 contains different classes like coordinator, company, student, attendance and shortlist. These classes are interconnected with the help of their attributes.

VI. RESULTS AND SCREENSHOTS

Following snapshots shows the implementation results of the proposed system.



Fig 4: Homepage

Fig 4 is the homepage of the project fromwhere we can navigate to other pages of the website i.e., about, campus, PMS etc.

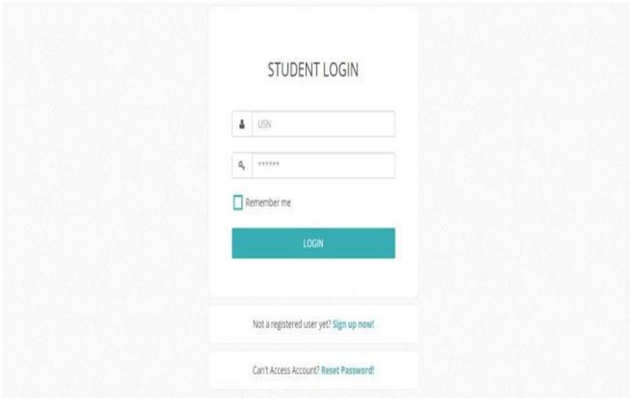


Fig 5: Student login

Fig 5 is the login page of the student where the student can log-in into his account using his login credentials.

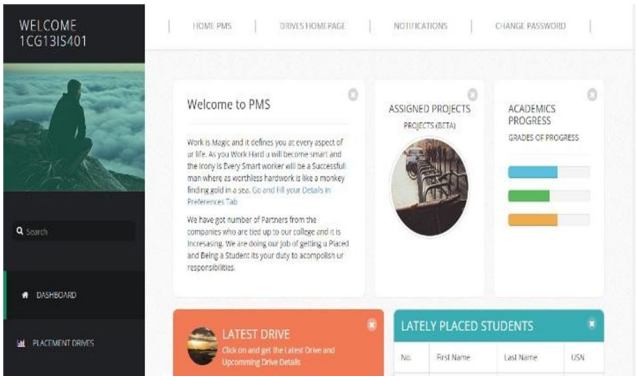


Fig 6: Student dashboard

When the student successfully login's then student dashboard will appear. Here the student can add his personal and academic details. He can also view the notifications from the department.

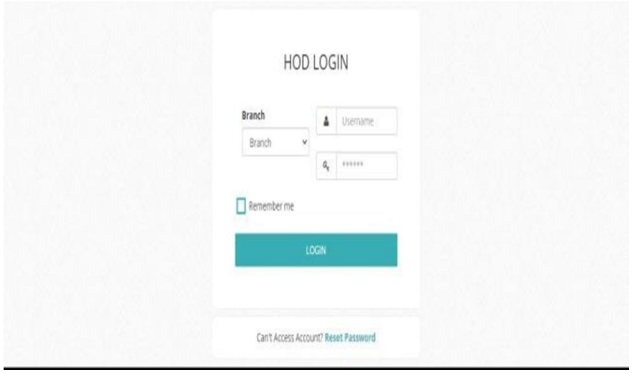


Fig 7: HoD login

Fig 7 is the login page of the HoD where he can login using his login credentials.

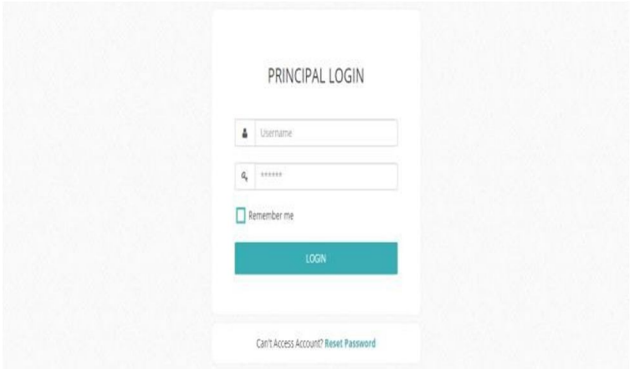


Fig 8: Admin login

Fig 8 is the admin login page where principalcan login using his credentials and manage all the users.

VII. CONCLUSION

When it comes to managing student information, college placement managers have many obstacles. It is more difficult because all information must be managed, enabling the development of a web-basedsolution to handle the problem.

The system provides more accurate input. There is accurate data accessible. By ensuring security, it improves the reliability of systems and software.

Admin can see which companies' students have applied to and been accepted into, and we feel this project will benefit many students in the future. As a result, we conclude that the suggested approach willcorrect the shortcomings in the currentsystem.

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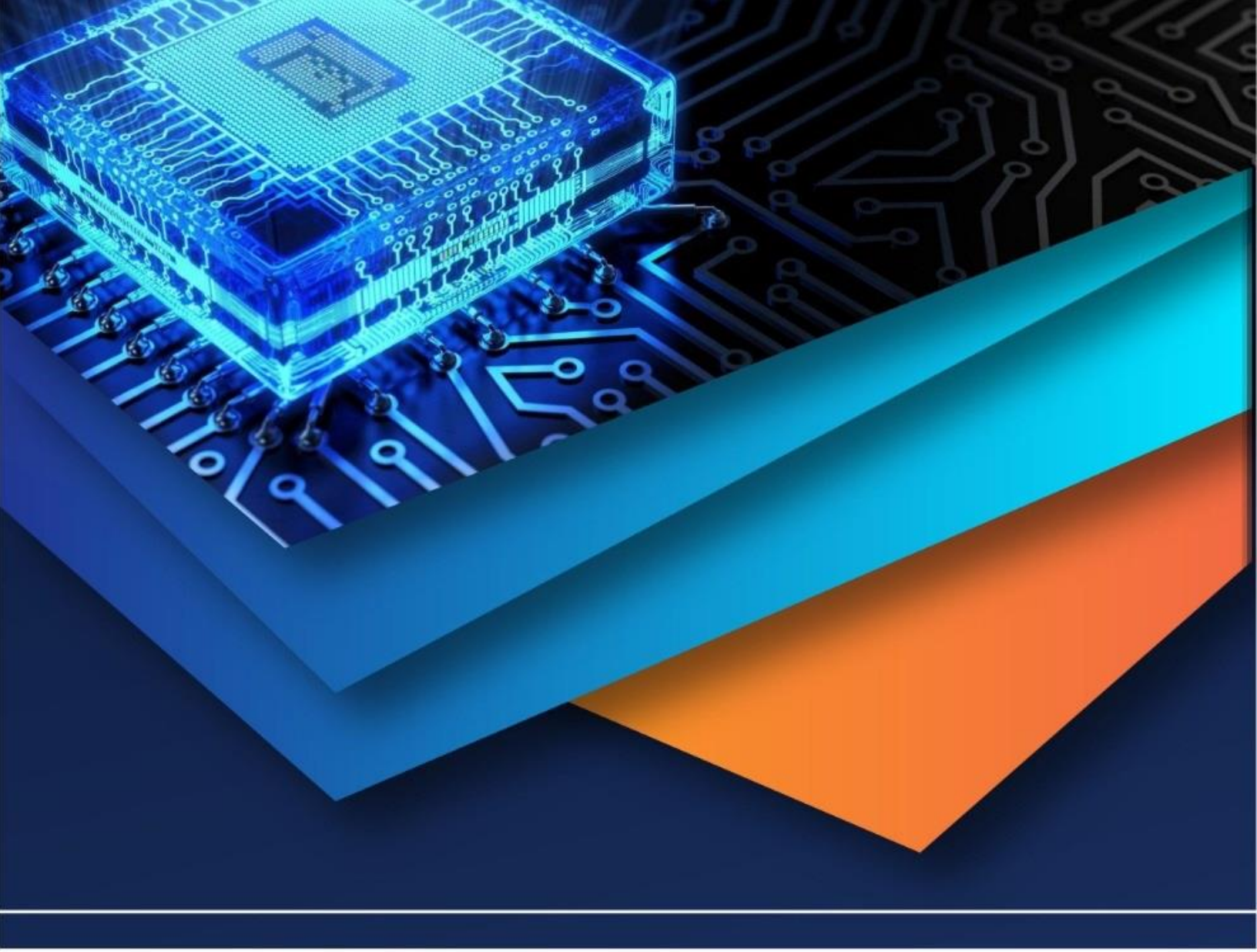
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