iJRASET
International Journal For Research in Applied Science and Engineering Technology



INTERNATIONAL JOURNAL FOR RESEARCH

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

Volume: 9 **Issue:** I **Month of publication:** January 2021

DOI: https://doi.org/10.22214/ijraset.2021.32641

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International Journal for Research in Applied Science & Engineering Technology (IJRASET)
ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429
Volume 9 Issue I Jan 2021- Available at www.ijraset.com

Placement Management System

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Abstract: ***The increasing advantages of automated systems now are at the highest position as a result many manual processes are automated. Since the automated system is in demand nowadays, educational infrastructures like colleges are making their manual or semi-automated system to function completely on a computer. One such system that concerns a college is the placement system's automation. The project aims at developing a web application for the placement cell.***
Placement Management System provides two distinct modules for students and placement officers. It enables students to register online and upload their academic and personal details. They will have their portals to update information as necessary and can view recent and upcoming job postings on their dashboard. Whereas, the Placement Officers will be able to utilize it to manage the student data as well as the hiring company's data concerning the available jobs.
The benefits of the system will be to provide enhanced facilities and assemble all the placement related tasks carried out on various platforms to a single application. This will give both the location officer and students an accurate channel and reduces repetitious work that has got to be administered. Additionally, email alerts can be provided to students in case if any new activity takes place which ensures that no important announcement is missed.
Keywords: Authorization, eligible, student, admin, placement, management system, file system, TPO, automation.

I. INTRODUCTION

In today's date campus recruitment is common in all colleges yet the drive brings a lot of stress to students as well as placement officers. Various software and other sector companies are conducting campus selections for selecting merit candidates. When campus selections are conducted the students are to submit their details to the concerned placement officer to apply for the hiring process. This routine process is maintained manually, like gathering student details and shortlisting eligible students based on company criteria.
Traditionally, all important information is displayed on the notice board as a result many students are not able to get the information within the time limit. Moreover, students manually submit their details, thus there are chances of errors or students failing to update their information on time. Hence, there is a requirement to computerize the system to reduce the chances of error and provide more efficiency.
The admin module plays an important role in our project. They provide validation of students' registration and updating of details. The admin will be able to see the students registered for any particular company and their status.

II. EXISTING SYSTEM

In the PLACEMENT MANAGEMENT SYSTEM existing system lead to many problems. Problems in the existing system are:

A. Within the existing system, maximum work goes manually hence, is an error-prone system. It takes time for any changes.
B. This big problem is that the searching; sorting and updating of the scholar data and no any notification method available for giving information to the scholar except the bulletin board.
C. The proposed system gets automated in the online registration all the user, activation of the user and deactivation of the user, personalization to the user, resources to be provided online, communication between the users, and provides online feedback.
D. The admin can see the user information which he will validate, generate the student list based on company criteria.
E. Company details are often provided to the user, searching and sorting are often done, and reports to be generated.
F. Alumni data to be maintained. Overall, all the method of the training and placement department is automated.
G. The earlier system is not computerized. All transactions within the system are done manually maintaining records
H. The management and every one the departments that are completing this job using manually makes the work more complicated and tedious most of the days.
I. Within the earlier system placement officer has got to collect student details for placements. Approving those student details takes ample time. Placement officer and students need to consult one another directly if any information is required.
J. Here checking out eligible candidates takes much time. And sometimes a few candidates' details may be missed.

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III.PROBLEM DEFINITION

Placement Cell plays a very vital role in every college as one of the reasons any student selects or aims for a college is because of their placement record.

An efficient placement cell requires an appropriate and advanced management system. The challenges encountered by the current system are that the student's data is stored using some applications and the placement officer sorts them manually so, filtering students as per eligibility criteria is a difficult task as there will be lots of students in the organization.

However, the most prominent complication faced by traditional placement systems is maintaining and managing records.

The major issues faced are:

1) In the existing system, maximum work requires human intervention. Humans do all the work.
2) Synchronization problem.
3) Since files are not stored in hierarchical format hence searching data is problematic.
4) Errors due to manual intervention.

IV.PROPOSED SYSTEM

The proposed system consists of two major modules namely Student and Admin; each module has a different set of tasks to be done. It is more efficient and cost-effective. The system can overcome all the limitation of the existing system, for example, student's data is maintaining in the database, it gives more security to information, guarantees information accuracy, decreases paperwork and save time, only eligible students get chance, it makes data to flow efficiently and paves way for simple report generation, reduce the space.

The Placement Management System is developed as an effort to form a record of company and students by restricting such an outsized database thereto to a specific class of students or company. The application assists the placement officer to maintain the student data and sort them according to the percentage criteria required for the company and student can review his/her data overcoming the drawbacks of the existing system.

The admin is the master user in our project; he gets the most number of priorities. It facilitates the placement officer to review the complete data, sort the data according to the percentages, and delete unnecessary data.

The proposed system helps us achieve the following:

1) All the notices are provided on a single platform; this overcomes the issue of missing important information.
2) The system can be linked to the exam cell to validate the academic details updated by the students.
3) Sorting and searching for information as per requirement is much easier.
4) Functionalities such as automatic percentage and CGPA calculator can help students eliminate errors.

V. DESIGN DETAILS

In the Placement Management System, there are following module and their design details are as follows:

A. Student Module



Figure 5.1: Home Page

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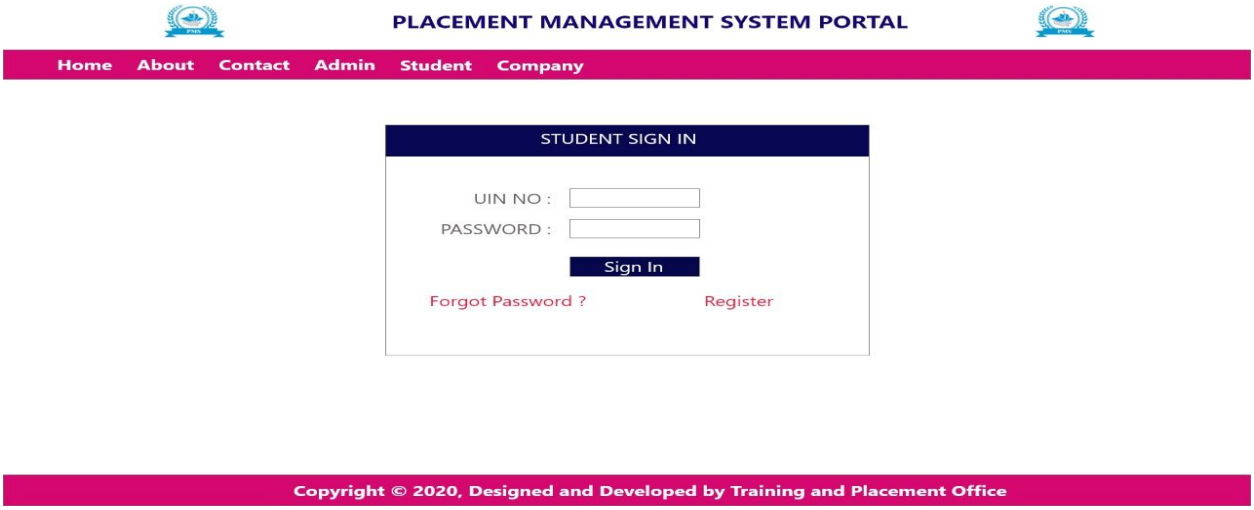


Figure 5.2: Student Login

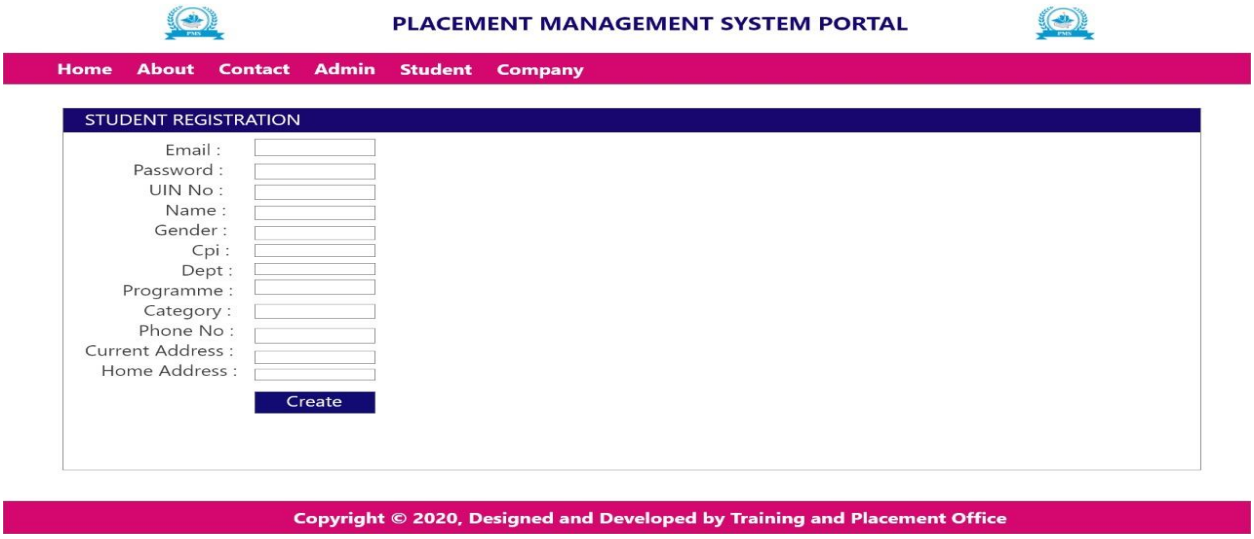


Figure 5.3: Student Registration



Figure 5.4: Student Dashboard

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B. Admin Module

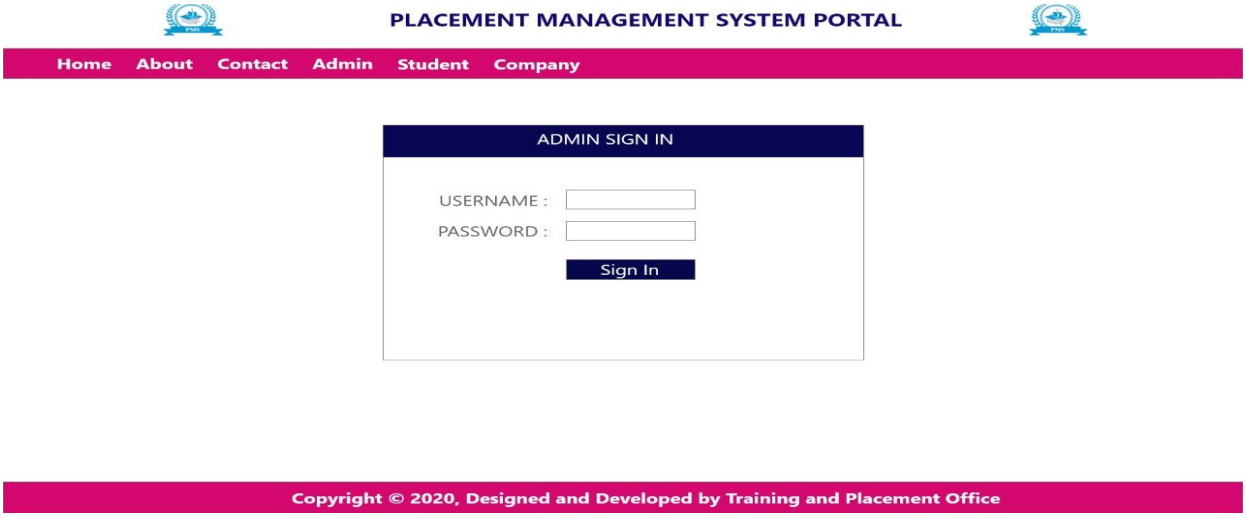


Figure 5.5: Admin Login

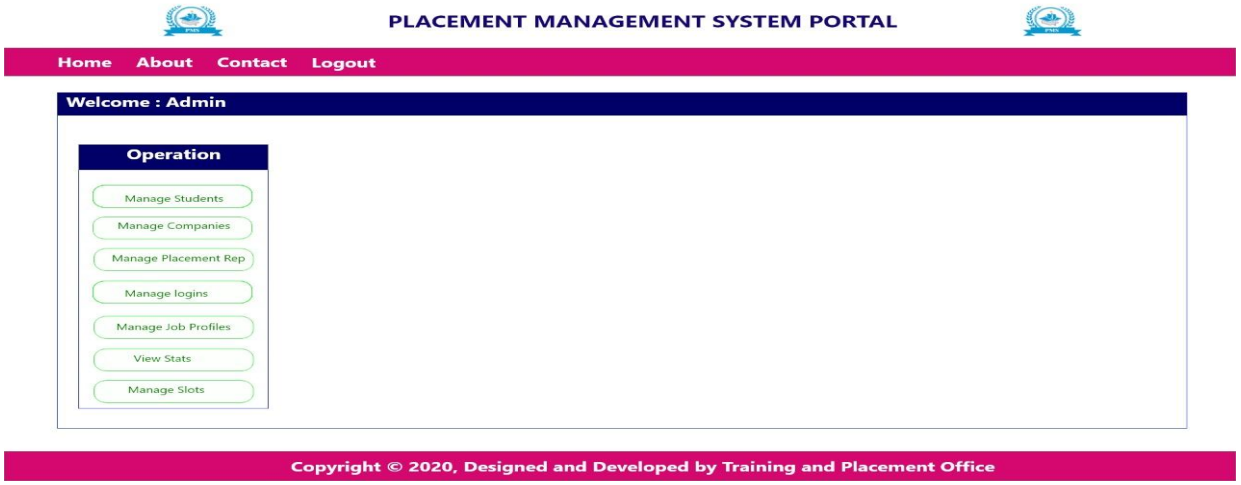


Figure 5.6: Admin Dashboard

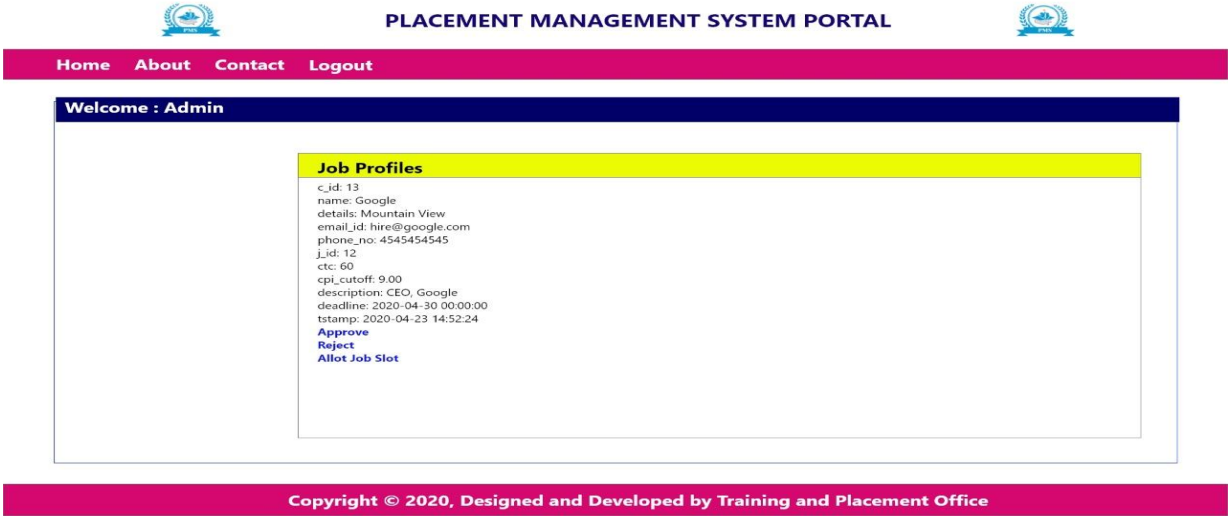


Figure 5.7: Admin Operations

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C. Company Module

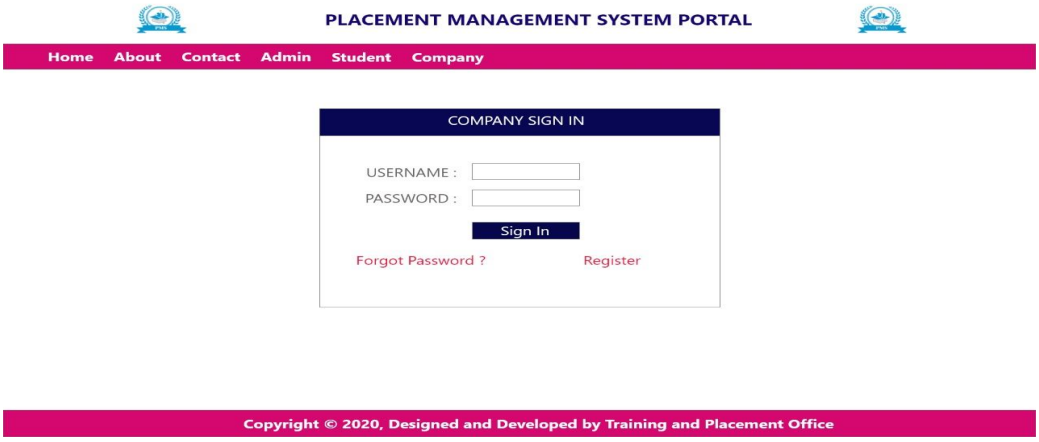


Figure 5.8: Company Login

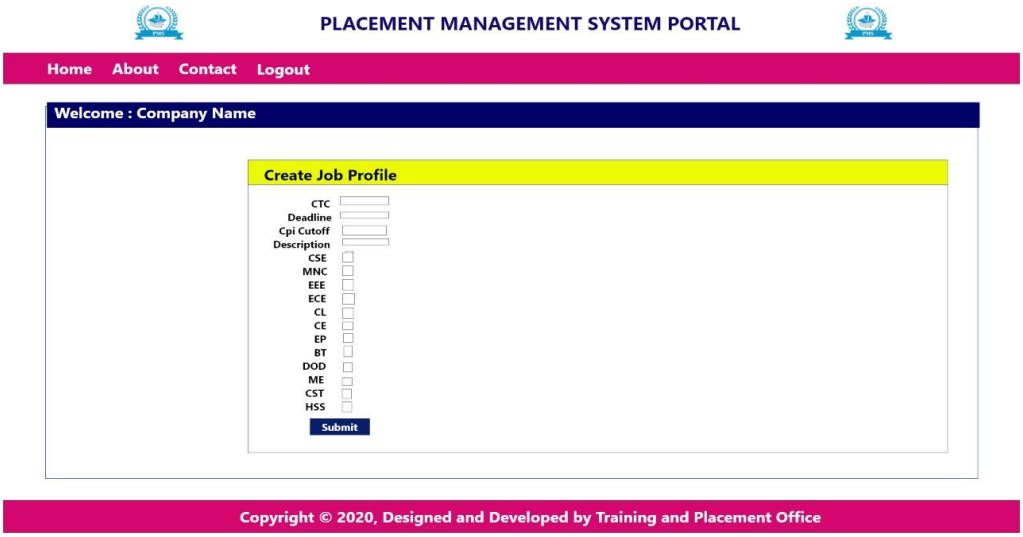


Figure 5.9: Company Registration



Figure 5.10: Student Applications

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D. Data Flow Diagram

A data flow diagram (DFD) is a graphical tool used to describe and analyze the movement of data through a system by depicting the flow of data, source or destination of data and the process that respond to change in data.

The DFD is one of the foremost tools employed by the system analysis to model system components, that are:

1) System Process
2) Data Store
3) The information flow in the system
4) Any external entities that interact with the system.

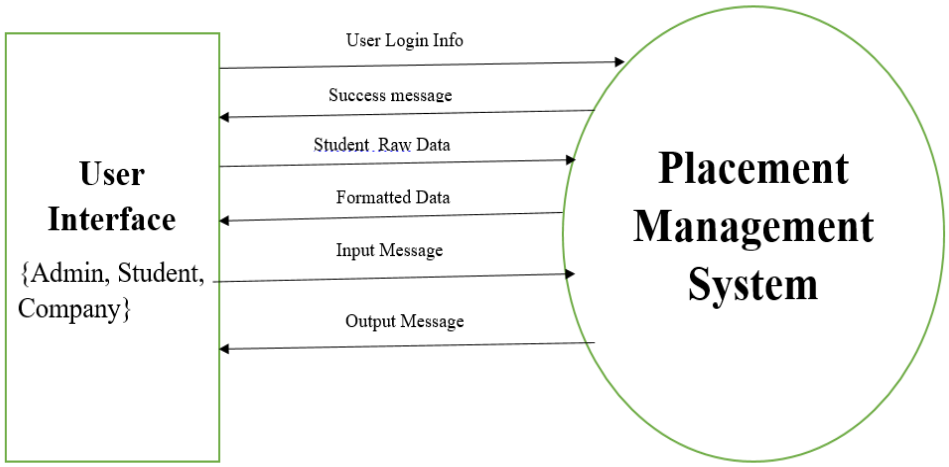


Figure 5.11: Context Level Data Flow Diagram

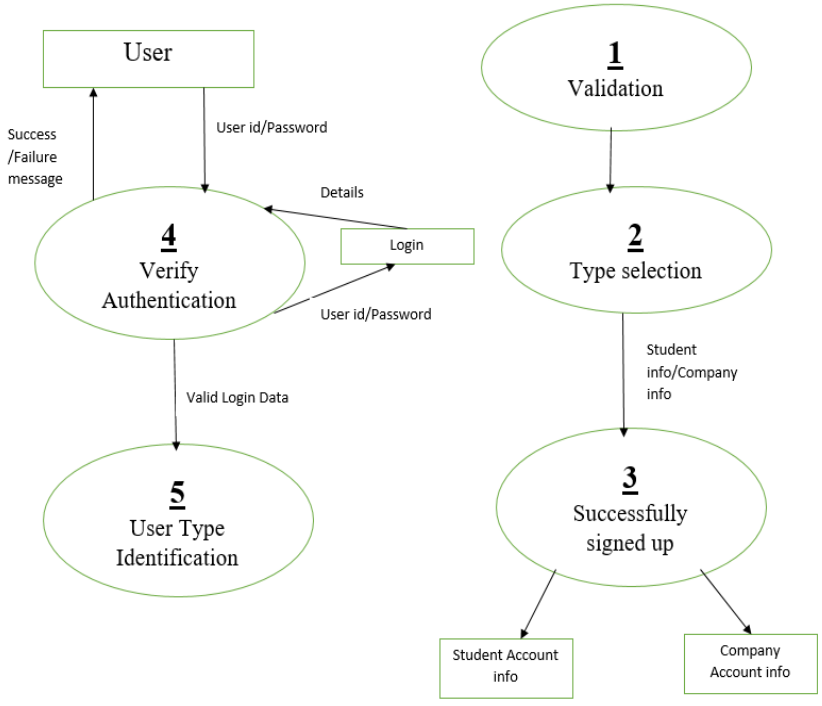


Figure 5.12: First Level Data Flow Diagram

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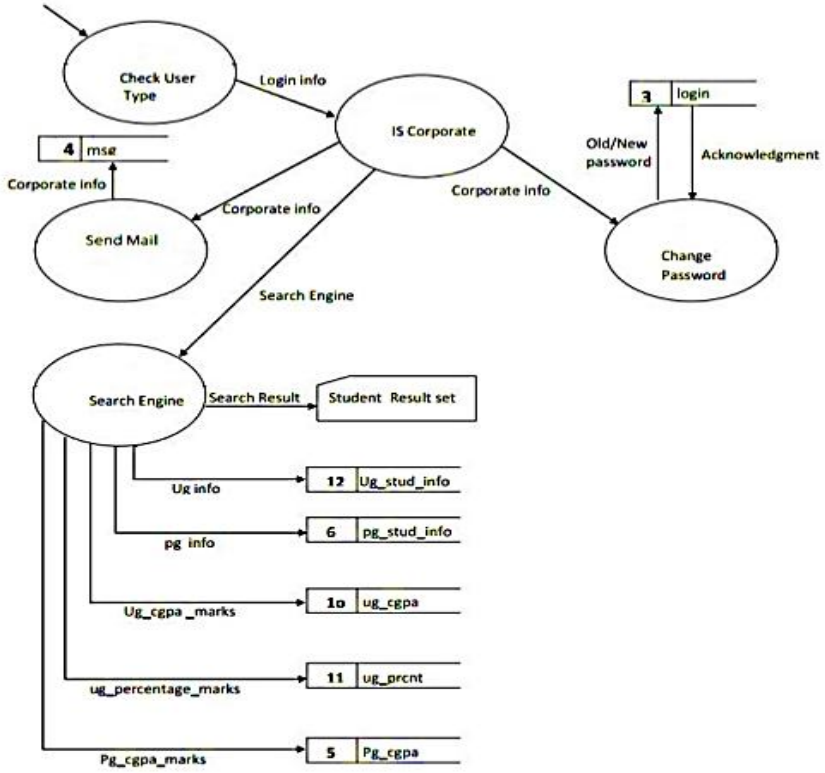


Figure 5.13: Second Level Data Flow Diagram

VI. FUTURE SCOPE

Though our project is itself matured enough still betterment is usually an open door.

A. We can give more advance software for placement management system including more facilities.
B. We can modify the project with a better approach with more graphics.
C. The back-up procedure can be comprised to make sure of the database integrity.

VII. CONCLUSIONS

Presently our placement system appears to be quite user-friendly but it needs to be more enhanced for it to be efficient according to present needs. There are many features to the present system yet the most prominent drawback to it is maximum human intervention in procedures. With this Placement Management System, most of the TPO's time is saved. The features of the system are often further enhanced in some ways. The documentation that has enclosed can enable even an individual with minimum knowledge to know it well. Our project is only a humble venture to satisfy the needs to manage the placement work. Several user-friendly coding methods have also been adopted. The project shall prove to be a powerful package in satisfying all the requirement of placement officer as well as students.

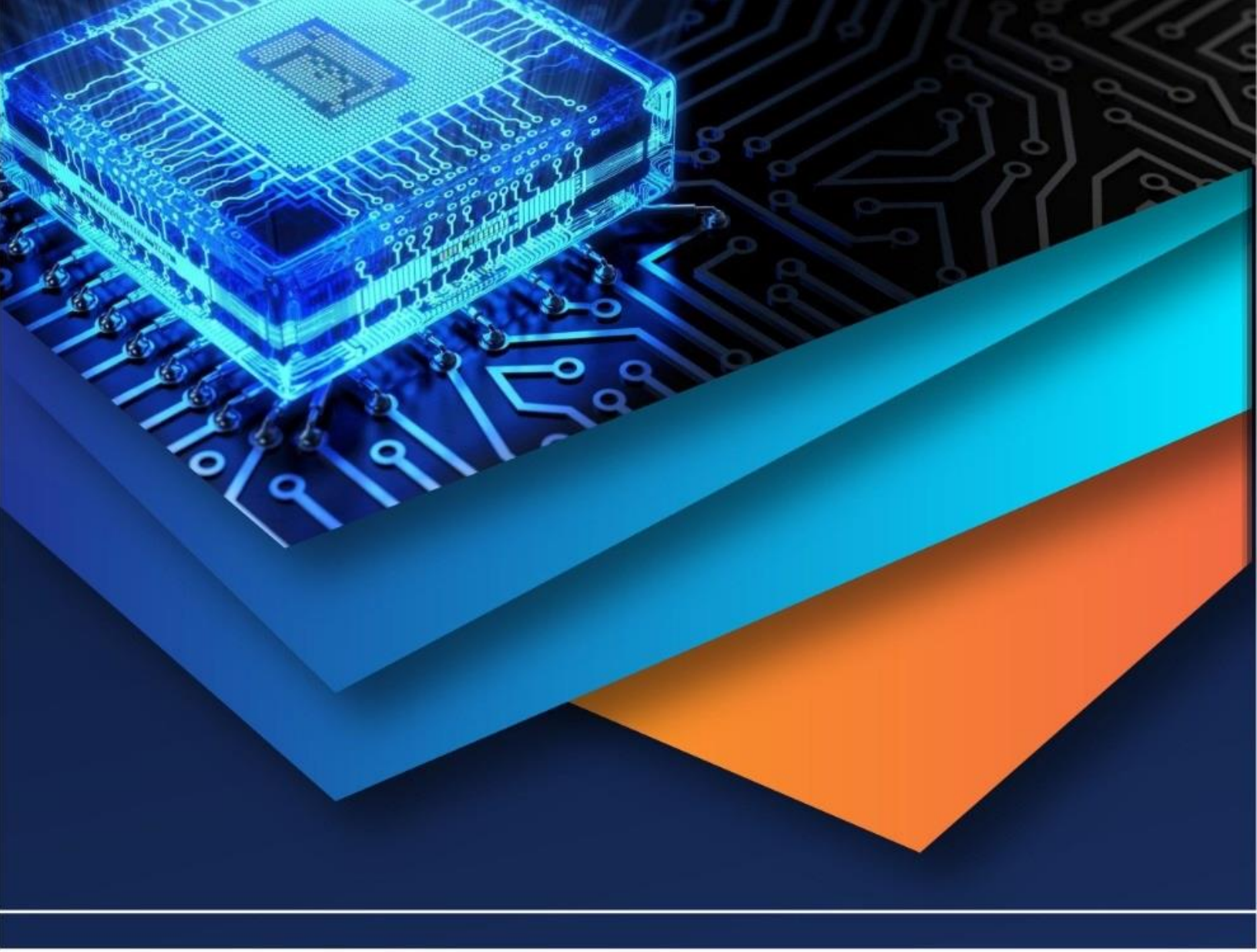
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