TPO Management System

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Abstract: The Training and Placement Management System is designed to streamline and automate the recruitment process in educational institutions. The manual system is inefficient, time-consuming, and prone to errors. The proposed system provides a web-based solution to manage student data, job postings, and placements effectively. It improves communication between students, facilitates real-time updates, and ensures secure data storage. The system automates job application tracking, shortlisting of candidates, and report generation for Training and Placement Officers (TPOs). Developed using HTML, CSS, PHP, JavaScript, and MySQL, the platform enhances accessibility and accuracy. Real-time notifications and role-based authentication improve security and efficiency. The system significantly reduces administrative workload and enhances placement outcomes. Future developments may include AI-driven job matching and mobile application support.

Keywords: Web-based System, Student Data Handling, User-Friendly System, Secure Authentication, Real-time Job Updates.

I.   INTRODUCTION

Like how ecosystems in nature are interconnected networks of living organisms, the term 'network' in digital systems refers to a collection of interconnected components. Similarly, the Training and Placement Management System acts as a centralized platform connecting students, placement officers. Instead of relying on manual processes, this system ensures a streamlined and automated approach to placement activities. The concept of digitizing placement processes has evolved significantly over the years. Earlier, student details were maintained on paper records or spreadsheets, leading to inefficiencies in communication and data retrieval. By adopting a web-based placement management system, institutions can efficiently handle student profiles, job postings, interactions.

The system allows students to update their profiles and resumes, check job postings in real time, and receive notifications regarding new opportunities. Placement officers can easily add job listings, filter applicants based on eligibility criteria, and generate reports. With secure authentication and cloud-based data storage, the platform enhances accessibility and reliability for all stakeholders involved. The implementation of such a system significantly reduces administrative workload, minimizes human error, and improves placement outcomes. As industries continue to evolve, an efficient and automated placement management system is essential for ensuring better opportunities for students and seamless coordination between colleges.

II.   PROBLEM DEFINITION

In Manual TPO management in colleges face significant challenges, including time-consuming processes, data inaccuracies, and difficulties in matching students with suitable placement opportunities. . The system is an application which will be accessed and effectively used throughout the organization with proper login enabled. It can also be used as an application for the Placement Officers in the college to manage the student information about placement thus reducing the manual work and consumes less paperwork. The primary issue is managing the placement process in educational institutions manually, which consumes a lot of time and manpower. A web-based placement management system is needed to automate the process, securely store student data, and make it easier to match students with job opportunities.

II.   METHODOLOGY

1.   **TPO Module**
- Action on Application – Reviewing and processing student job applications.
- View/Modify Job – Posting and updating job listings.
- Collect Student Data – Gathering and storing student placement-related details.

- View/Modify Student – Updating student profiles and records.

2. Student Module

- View Profile – Checking their personal and academic details.
- Apply for Job – Submitting job applications through the system.
- Job Process Update – Tracking the status of applications (e.g., shortlisted, interview, selection).
- View Previous Applications – Reviewing past job applications and their outcomes.

3. Data Storage

The Placement Management System Database acts as the backend storage.

It stores information related to:

- Student details
- Job postings
- Applications
- Placement updates

III. ARCHITECTURE

A. System Architecture

The diagram represents a Placement Management System Architecture, illustrating how different users (TPO and Students) interact with the system. The system has two types of users TPO (Training and Placement Officer) and Student
Each user interacts with the system through different functionalities.
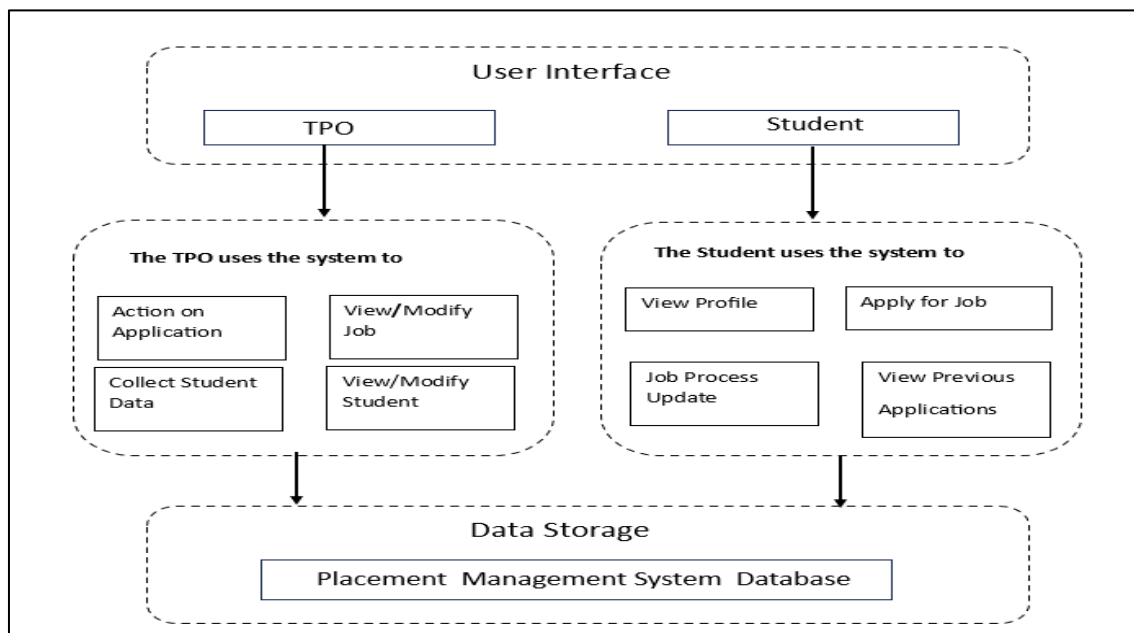
Fig 1: System Architecture

B. Activity Diagram

i. For TPO

The Login Process for TPO is explained in Fig 2 .The TPO 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 forget password to reset the password and then login with new password.
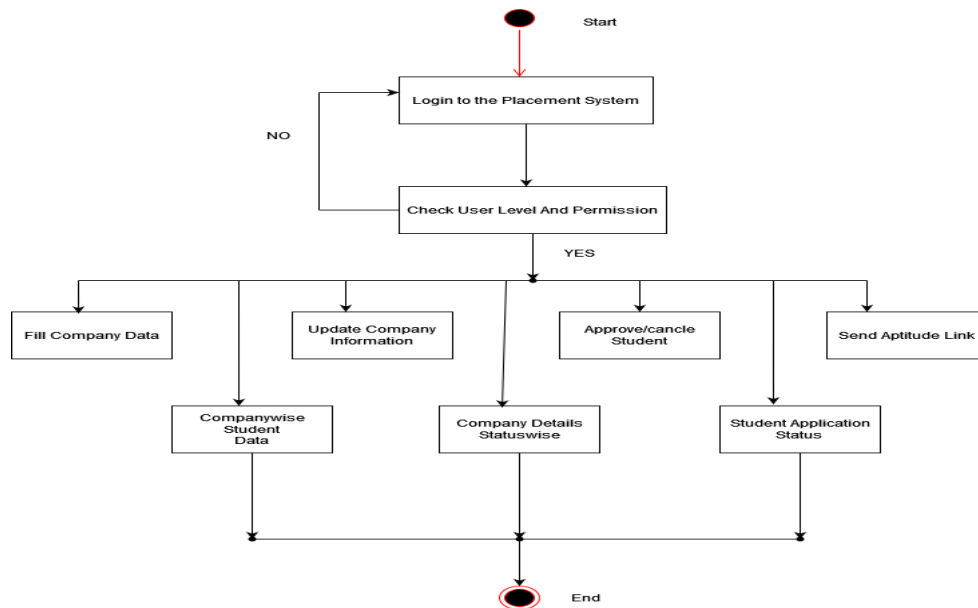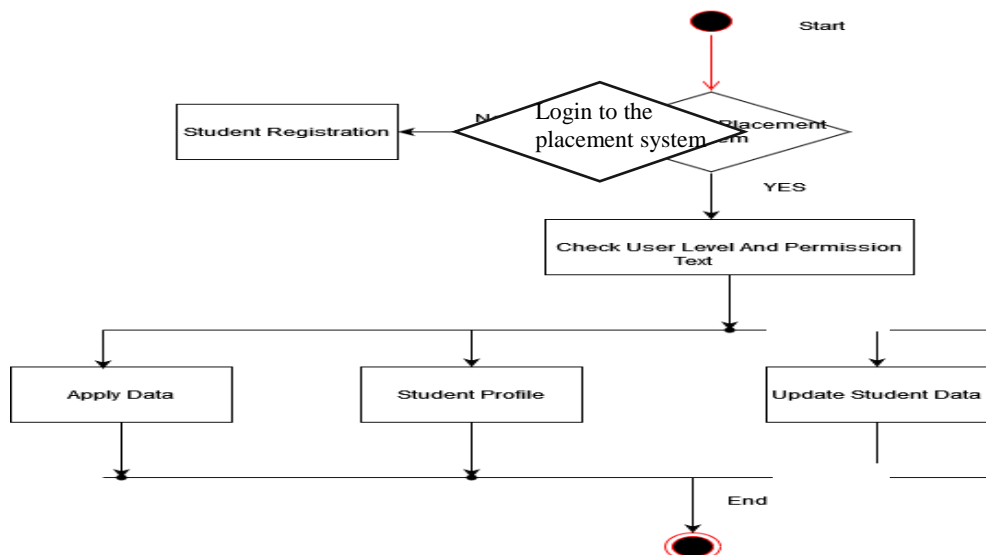
Fig 2: Activity Diagram (For TPO)

ii.   For Student

The Login Process for Student is explained in Fig 3 .The Student first need to Register to the system and then tries to login into the system with his login credentials and if he already registered to the system he can directly login to the system ,if the credentials are verified from the database if found correct, he logins successfully if not he can use the option forget password to reset the password and then login with new password.

Fig 3: Activity Diagram (For Student)

IV.   RESULTS

Following snapshots shows the implementation result of purposed System:
Fig 4 is the homepage of the project from where we can navigate to other pages of the website i.e., about, contacts, etc.
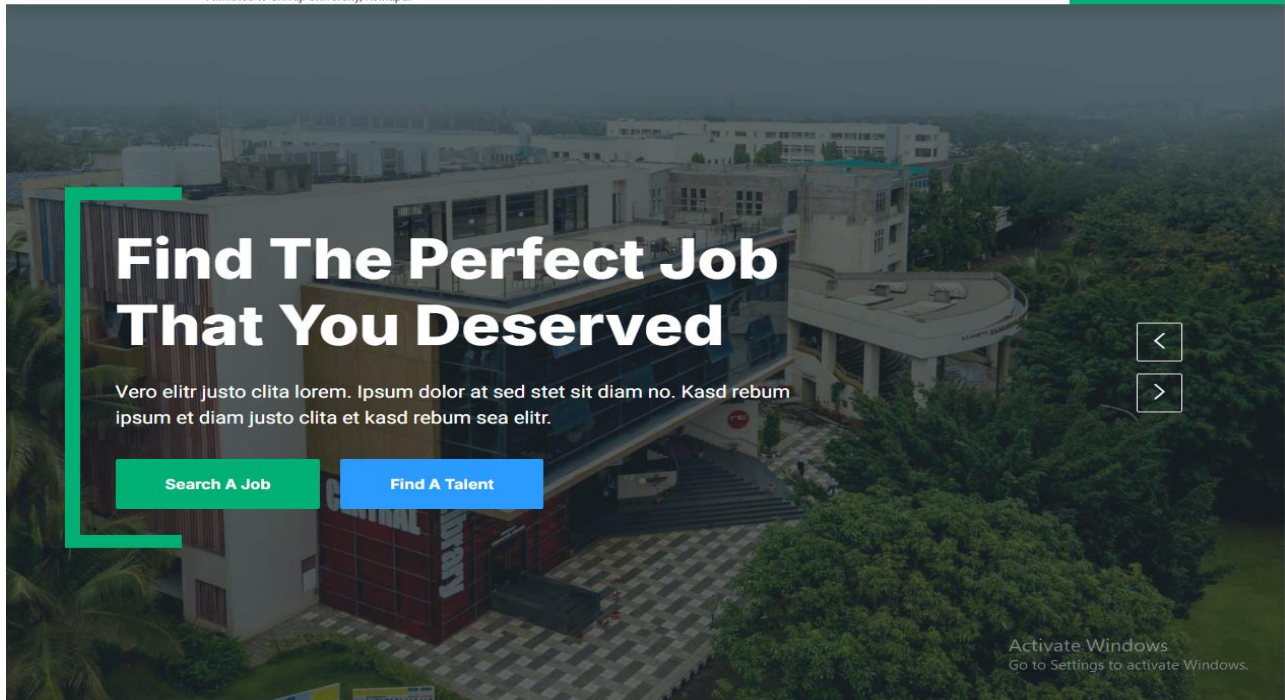
Fig 4: Homepage

Fig 5 is the Student Registration page from where student can register to the website and set their login credentials.

Fig 5: Student Registration Page

Fig 6 is the Student Login page from where student can login to their profile.

Fig 6: Student Login Page

Fig 7 is the Student Dashboard from where student view and edit their profile, apply for, view previous job applications and their status.

Fig 7: Student Dashboard

Fig 8 is the TPO Login page from where TPO can login to his profile.

Fig 8: TPO Login

Fig 9 is the TPO Dashboard from where TPO view and edit his profile, manage and view, student data, student job applications and their placement status etc,
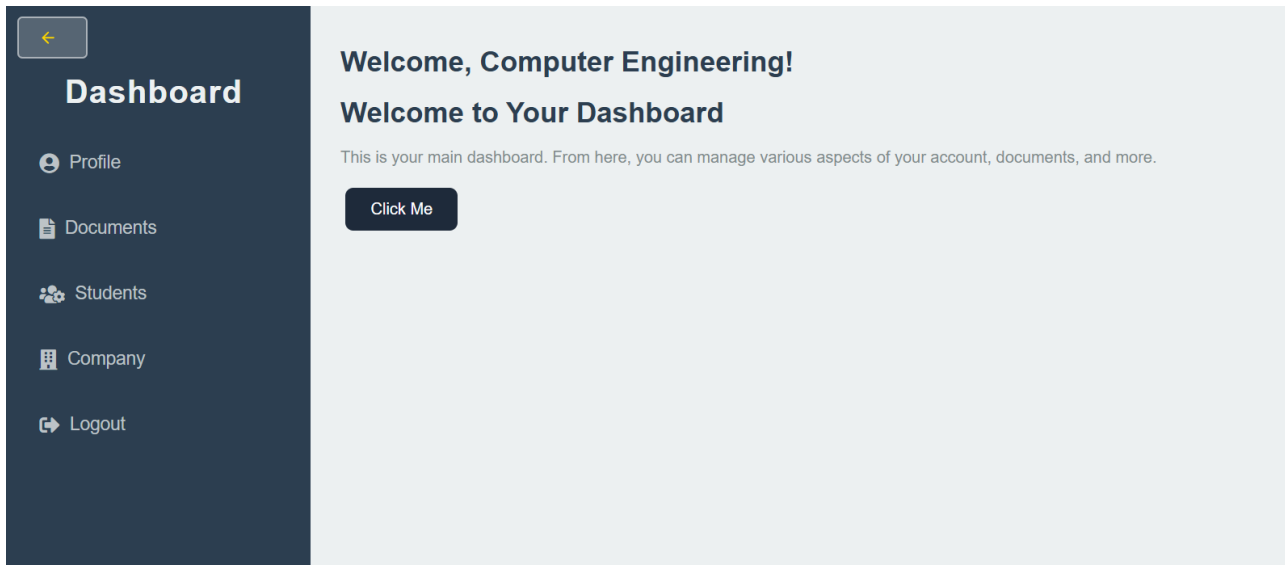

Fig 9: TPO Dashboard

VI.   CONCLUSION

For Maximum work goes manually in the present placement system which makes it take time to avail changes. In the proposed system, all of these problems become automated. The registration of the student for an upcoming placement, the addition of a new user, notifying students, sharing information, the privacy of the student, etc. is all met. As a result, we conclude that the proposed system will correct the shortcomings in the current system.

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