

COLLEGE PLACEMENT ASSISTANCE FOR SAPKAL KNOWLEDGE HUB

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ABSTRACT

The college placement assistance project is a web-based application that aims to facilitate the placement process of students and companies in an efficient and convenient way. The project consists of three modules: student, company, and admin. The student module allows the students to register, login, update their profile and academic details, view and apply for various job and internship opportunities posted by the companies, view their status and offer letters, and get placement assistance from the admin. The company module allows the companies to register, login, post their job and internship requirements, view and select the eligible candidates, and send offer letters. The admin module allows the admin to manage the users and companies, provide placement assistance to the students by uploading training documents, and view the statistics and graphs of the placement process. The project uses Python as the programming language, Django as the web framework, MySQL as the database, and HTML, CSS, and JavaScript as the front-end technologies. The project aims to reduce the manual work and errors involved in the placement process, and provide a platform for students and companies to connect and communicate easily.

Key Words: Placement, Companies, HR, TPO, Admin, Assistance.

1. INTRODUCTION

College placement is one of the most important and challenging aspects of a student's academic journey. It involves finding a suitable job or internship opportunity that matches the student's skills, interests, and aspirations. However, the traditional placement process is often tedious, time-consuming, and prone to errors. It requires a lot of manual work and coordination between the students, the companies, and the college authorities. Moreover, the students may not have guidance and support to prepare for the placement process and enhance their employability. To address these issues, we propose a college placement assistance project, which is a web-based application that aims to facilitate the placement process of students and companies in an efficient and convenient way. The project consists of three modules: student, company, and admin. Each

module has its own functionalities and features that cater to the specific needs of the users.

II. LITERATURE SURVEY

Maryam Sayyed et al. (2020): This paper presents a technology that provides a quick placement management system in college unlike the traditional system where students and the training and placement officer (TPO) may face many problems like insufficient details, less security, problems with manual work, etc. The paper proposes a website that allows the students to register online through their COMSYS (College Management System) account, read and apply for the company of their choice, and get frequent updates regarding the placements from the college TPO. The paper also describes the features and benefits of the proposed system, such as connectivity, dynamic database, and Wi-Fi.

- Spoorthi M S et al. (2021): This paper provides a review on a placement management system that consists of an Android application for students and a web portal for the placement officer. The paper explains how the system was built using Android Studio, HTML, CSS, XML, and JavaScript. The paper also discusses the advantages and disadvantages of the system, such as ease of access, security, user interface, etc.

- Pratiksha Patil et al. (2020): This paper proposes a student analysis system for training and placement that automates the training and placement activities and provides many opportunities to raise the selection ratio. The paper describes how the system uses data mining techniques to analyse the student data and generate reports based on various criteria such as academic performance, skills, interests, etc. The paper also illustrates how the system helps to improve the communication between the students, the companies, and the college authorities.

- Roshni R et al. (2019): This paper presents a literature survey on different placement prediction models for pre-final year engineering graduate students. The paper reviews various methods and algorithms used for predicting the placement chances of students based on their academic records, aptitude test scores, personality traits, etc. The paper also compares the accuracy and performance of different models and suggests some future directions for research. These are some of the examples of literature that can be included in the literature survey for a college placement assistance project. The literature

survey can help to understand the current state of art in this domain and provide insights for developing a better and more effective system.

III. TOOLS AND TECHNOLOGIES USED

In project management, identifying and allocating project resources is a critical aspect of planning and executing a successful project. Project resources encompass various elements needed to carry out tasks, meet objectives, and deliver project outcomes. Here's outline project resources for college placement system project:

1. Human Resources

Development Team:

- Software Developers
- UI Designers
- Database Administrators (DBAs)
- System Administrators
- Content Creators (for documentation)

2. Hardware and Software:

Servers:

- Hosting infrastructure

Workstations:

- Desktops or laptops for development and testing

Software:

- Development tools (e.g., IDEs, version control)
- Database software (e.g., MySQL)
- Operating systems
- Collaboration tools

3. Infrastructure

Internet Connectivity:

- Hosting infrastructure

Hosting Services:

- HWeb hosting for the application

Data Storage and Backup:

- Storage solutions for databases and backups

4. Training and Documentation

User Training:

- Training sessions for students, companies, and administrators on using the system

Documentation:

- User manuals, technical documentation, and support guides

IV. PROBLEM STATEMENT

The college placement process often faces several challenges and inefficiencies that can hinder students' access to job opportunities and companies' ability to recruit talented individuals effectively. Some common problems include:

1) Lack of Centralized Platform: Existing methods of job placement may lack a centralized platform where students and companies can easily interact and exchange information about job openings and internship opportunities.

2) Application Processes: Traditional job application processes can be cumbersome and time-consuming, involving manual

paperwork and administrative overhead for both students and companies.

3) Limited Placement Support: Students may lack adequate placement support and resources to enhance their employability skills and prepare for job interviews.

4) Administrative Complexity: Administrators may struggle with managing user registrations, company interactions, and placement-related activities efficiently.

V. SYSTEM ARCHITECTURE

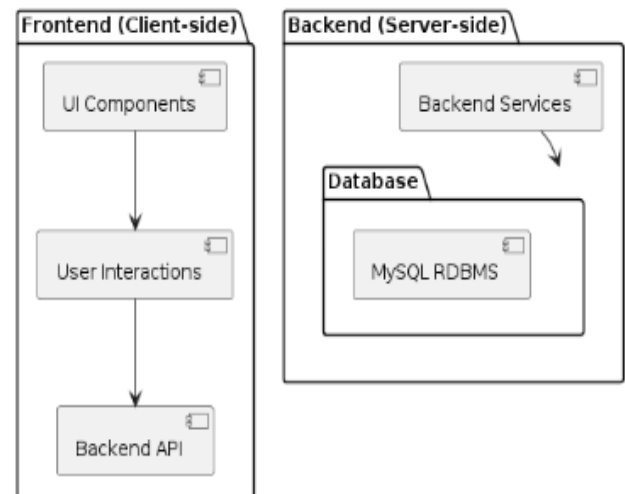


Figure 4.1: System Architecture Diagram

VI. OUTCOMES

- The implementation of the college placement platform has streamlined the placement process for both students and companies, reducing manual effort and paperwork.

- Students can easily access job opportunities, submit applications, and track their progress through the centralized platform, leading to a more efficient and transparent placement experience.

- The interactive features of the platform, such as job postings, application management, and training resources, have fostered greater engagement among students, companies, and administrators.

- Companies can efficiently connect with qualified candidates, while students have access to valuable resources to enhance their skills and improve their employability.

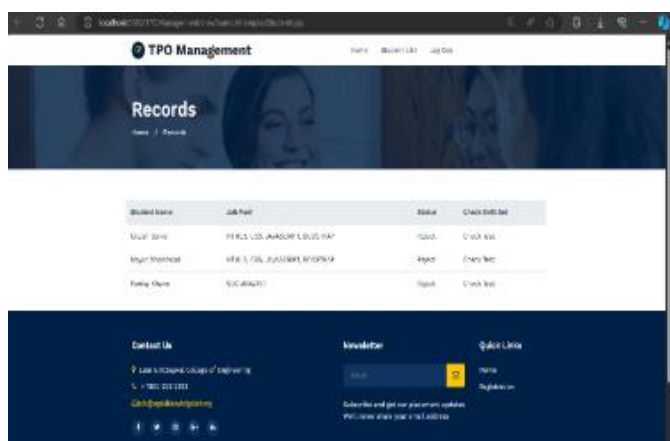
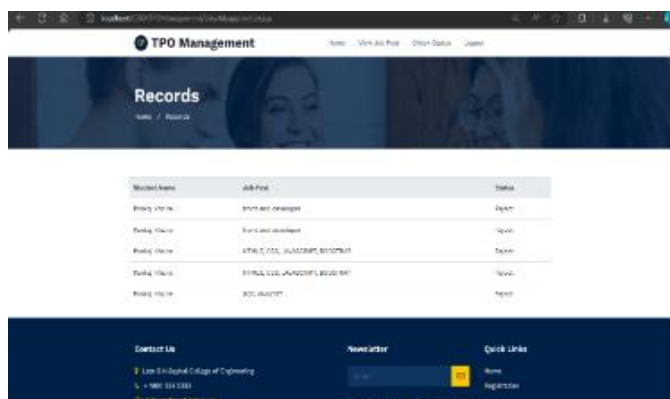
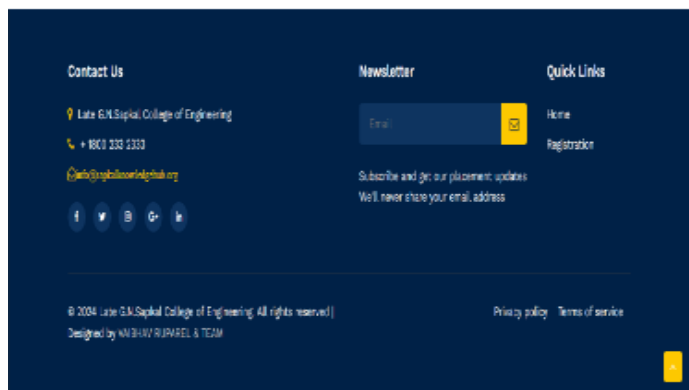
- By providing a centralized platform for job postings and internship opportunities, the project has expanded placement opportunities for students, allowing them to explore a wide range of career options across industries and sectors.

- Companies benefit from access to a diverse pool of talented candidates, facilitating recruitment efforts and fostering collaboration with educational institutions.

- The project has enabled administrators to gather valuable data insights into placement trends, student preferences, and company engagement metrics.

- By leveraging data analytics and reporting tools, stakeholders can make informed decisions to optimize the placement process, improve student outcomes, and strengthen industry partnerships.

VII. RESULTS AND SCREENSHOTS



VIII. CONCLUSIONS

The college placement project has been designed as a comprehensive solution to address the diverse needs of students, companies, and administrators involved in the placement process. By integrating features such as student registration, job postings, application management, and administrative tools, the project aims to streamline and enhance every aspect of the placement experience. Throughout the development process, a strong emphasis has been placed on user-centric design principles, ensuring that the project is intuitive, accessible, and easy to navigate for all stakeholders. Item The college placement project holds the potential to make a significant positive impact on the placement landscape, both within the academic institution and beyond. By facilitating efficient matching between students and job opportunities, the project aims to enhance career prospects for students while meeting the recruitment needs of companies.

IX. FUTURE SCOPE

1.Enhanced Features and Functionality:

- Continuously expand and enhance the features and functionality of the platform based on user feedback and emerging industry trends.
- Explore additional tools and modules to support career development, mentorship programs, and alumni networking.

2.Integration with External Systems:

- Integrate the college placement platform with external systems and databases to facilitate seamless data exchange and interoperability with other academic and recruitment platforms.
- Explore partnerships with industry organizations and job portals to broaden the scope and reach of job opportunities available to students.

3.Advanced Analytics and Reporting:

- Implement advanced analytics and reporting capabilities to provide stakeholders with valuable insights into placement trends, student performance metrics, and industry demand.
- Utilize data-driven approaches to optimize job matching algorithms and improve the overall effectiveness of the placement process.

4.Mobile Application Development:

- Develop a mobile application version of the college placement platform to enhance accessibility and convenience for users, particularly students who prefer to access resources on their smartphones or tablets.
- Ensure seamless integration between the web-based platform and the mobile application to provide a consistent user experience across devices.

5.Expansion to New Markets:

- Explore opportunities to expand the reach of the college placement platform to new geographic regions and academic institutions.

- Customize the platform to accommodate the specific needs and requirements of different educational contexts and industry sectors.

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