

PLACEMENTS AUTOMATION WEBSITE USING DJANGO FRAMEWORK

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ABSTRACT

The Placement Automation Website is an online tool specifically designed for Training and Placement Officers (TPOs) of colleges to efficiently handle student placement information. This platform can be accessed organization-wide through secure logins. The current manual process of managing placements has led to delays in gathering student data and notifying them about potential job opportunities. To overcome this challenge, an automated placement application has been developed for SRK Institute of Technology (SRKIT) to streamline the management of placement activities. Through this system, all students can log in using their credentials to access placement-related information. TPOs are also able to utilize the system to easily manage the student database.

I INTRODUCTION

1.1 Overview

This project aims to create a centralized platform for connecting students with job opportunities and enhancing communication between students and Training and Placement Officers (TPOs). The system will streamline the placement process within the college. A Placements Management System is being developed to simplify the management of student placements in educational institutions by serving as a centralized platform for coordinating placement activities. Key features of the system include managing student and company databases, posting and applying for job opportunities, scheduling placement events, and facilitating communication between faculty, students and recruiters.

1.2 About the project

The Placement Automation System is a web-based application developed for the Windows platform. It stores students' personal information in a database that can be accessed by companies during the recruitment process. Secure login is required to access the information. The system contains crucial details about students, such as personal information, skill set, aggregate marks and technical skills required in their resumes for submission to a company. It is an online system accessible to authorized personnel within the organization.

1.3 Purpose

The main goal of a Placement Management Website is to simplify the process of connecting students with suitable job opportunities. By offering a centralized platform, students can easily search for job listings and apply for positions, leading to an efficient job placement process.

1.4 Scope

A job placement management website can offer various tools and features to help companies streamline their recruitment and hiring processes. The TPO can upload information about upcoming campus recruitment drives on the website, reaching a wider audience of potential candidates. Students can upload their resumes to the website, and those meeting the requirements can register for campus recruitment drives.

II LITERATURE WORK

2.1 Research on Placement Management System: "Placements Management System for Higher Educational Institutions" by Prabhakar,

R. G., Patil, S. B., & Patil, P. P outlines the development and implementation of a system to streamline the placement process in higher educational institutions. It covers the design, features, technology stack, and potential benefits of the system, providing a solution to the challenges faced in managing placements efficiently.

2.2 Online Training and Placement System:

The research paper on "Design and Implementation of an Online Placement Management System" by Karthick, P., & Manohar, K. M. details the creation of a web-based system to streamline placement processes in educational institutions. It covers system architecture, key features like registration and scheduling, technology used, user interface design, implementation challenges, and potential for future improvements.

2.3 Student Placement Analyzer: The research paper Student Placement Analyzer A Recommendation System Using Machine Learning by Senthil Kumar Thangavel and Divya Abijith Sankar from Amrita School of Engineering, Coimbatore, likely discusses the development of a recommendation system for student placements. It covers system design, machine learning models, data collection, preprocessing, implementation, evaluation metrics, results, and potential future enhancements.

2.4 Campus Recruitment Management System: The research paper "Research on Campus Recruitment Management Platform Based on Dynamic Electronic Commerce" by Lu Shumin and Rao Yuan explores the creation of a platform integrating dynamic e-commerce principles for managing campus recruitment. It covers system design, e-commerce integration, technology stack, implementation, evaluation, and implications for modernizing recruitment processes.

2.5 Journal of Emerging Technologies and Innovative Research: The Journal of Emerging Technologies and Innovative Research is an international, open-access scholarly journal that publishes peer-reviewed research papers covering a broad range of emerging technologies and disciplines. It provides a platform for researchers to share innovative findings and undergoes a rigorous review process to ensure quality and credibility.

III PROBLEM SOLVING

3.1 Current System:

Presently, the system relies entirely on manual processes, demanding human intervention for every task. This manual approach burdens placement officers, increasing the likelihood of errors and causing significant delays. It operates slowly and becomes a bottleneck as the user base expands, challenging scalability and efficient management.

The process of identifying suitable candidates for company recruitment is entirely manual, with Training and Placement Officers (TPOs) manually sorting through student records, often stored in Excel sheets prone to sorting and duplication issues. Gathering student information, resumes, categorizing them, and managing updates and notifications for specific company requirements are all labor-intensive tasks for TPOs.

3.2 Proposed System:

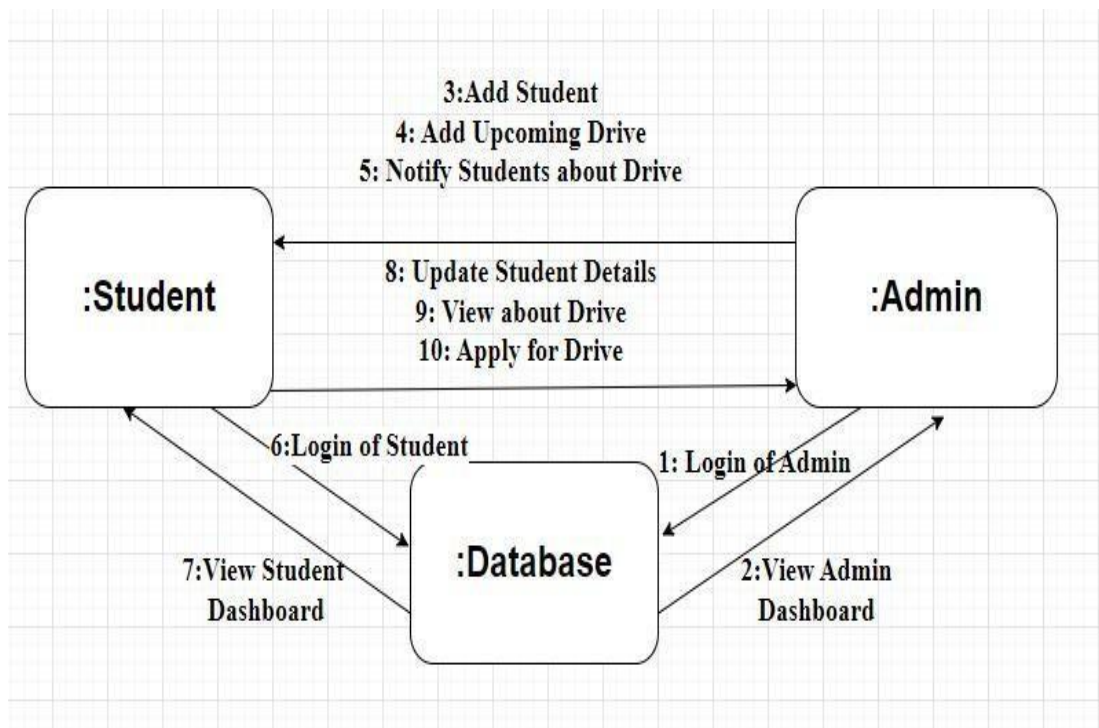
The proposed Placement Automation Website offers a comprehensive solution to simplify information access and modification for TPOs, placement coordinators, and students. It centralizes student records, ensuring accuracy and security while significantly reducing paperwork and time consumption through streamlined information flow across modules.

The Student Module enables students to register, create login credentials, update details, view company requirements, apply for companies, and access comprehensive company profiles.

The T&P (Admin) Module empowers TPOs with various functionalities, including adding student and company details, authenticating students, updating company data, and providing comprehensive student records, reducing confusion and enabling informed decisions.

The user-friendly interface simplifies student data management, allowing TPOs to access and manage records, maintain lists of eligible students, and track applications. Automated sorting based on eligibility ensures fairness and transparency, while students can easily upload resumes.

IV ARCHITECTURE



V METHADODOLOGY

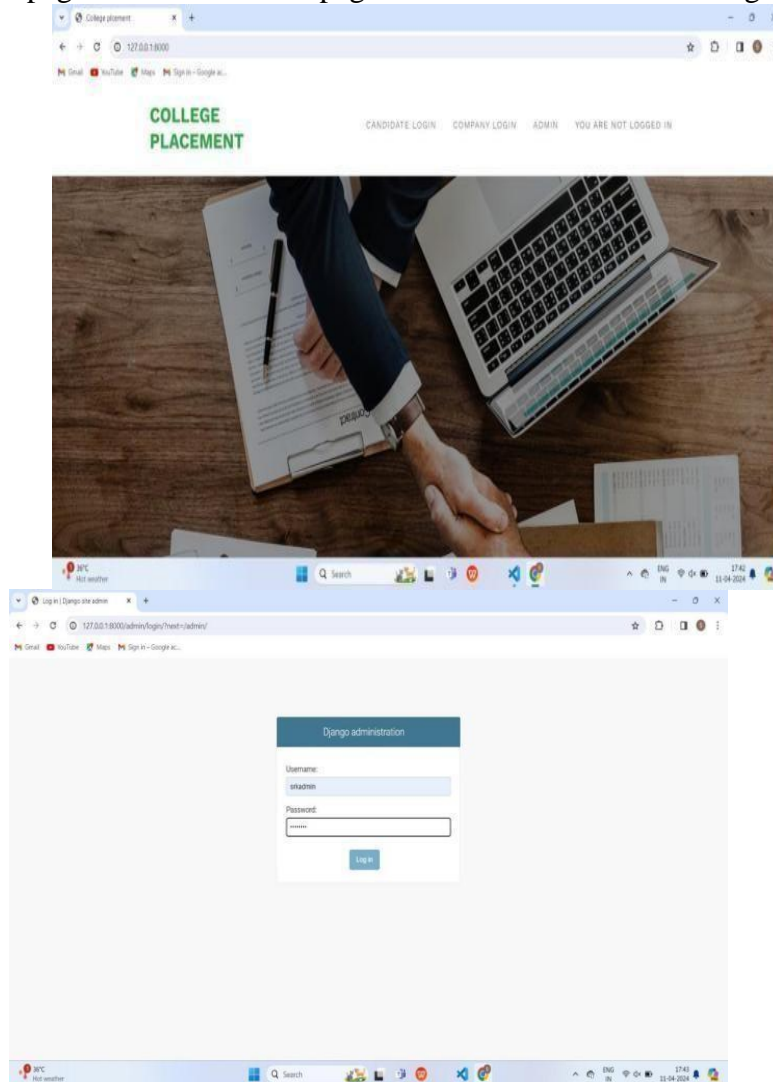
The innovative approach of the proposed placement automation website aims to simplify the process for both Training and Placement Officers (TPOs) and students by providing quick access to information and enabling easy modifications. By securely storing student data in a centralized database, the system ensures data accuracy and eliminates the need for manual or physical paperwork and time-consuming tasks.

Through various modules, such as the student module and TPO Admin module, the system allows for seamless interaction and efficient management of placement-related activities. Students can easily update their information, view company requirements, and apply for positions, while administrators can effortlessly manage student and company details, as well as track overall student records.

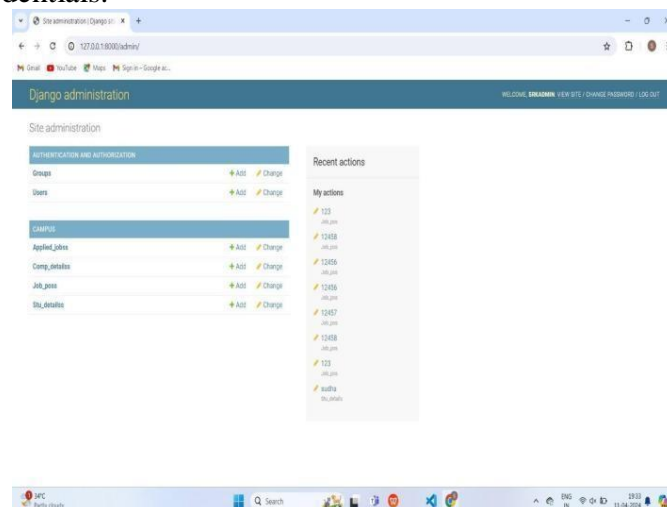
By focusing on improving efficiency and communication, this placement automation website offers a comprehensive solution to the challenges faced by placement coordinators and students, leading to a more streamlined and effective placement process. The website's user-friendly interface and automation capabilities significantly reduce the time and effort required for placement activities, ultimately enhancing the overall experience for all parties involved. This innovative solution is set to revolutionize the way placements are conducted, making it easier, faster, and more reliable for TPOs and students alike.

VI RESULTS AND ANALYSIS

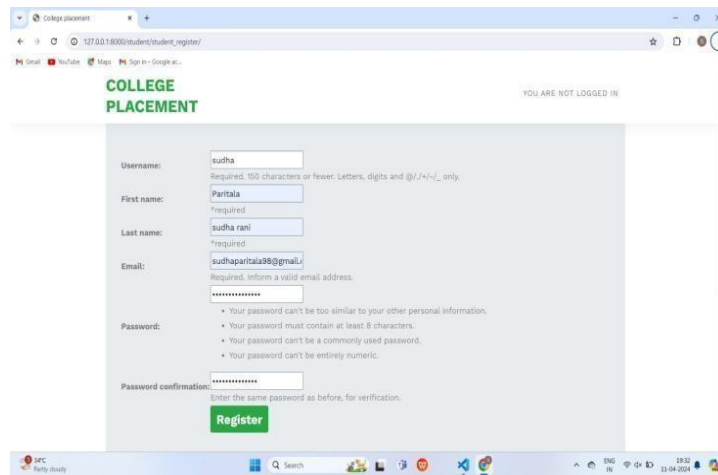
The above page shows the Home page for Students and admin to login



6.2 The above page shows the Admin Login Page, where Admin (TPO Dept) can log into by using Admin credentials.

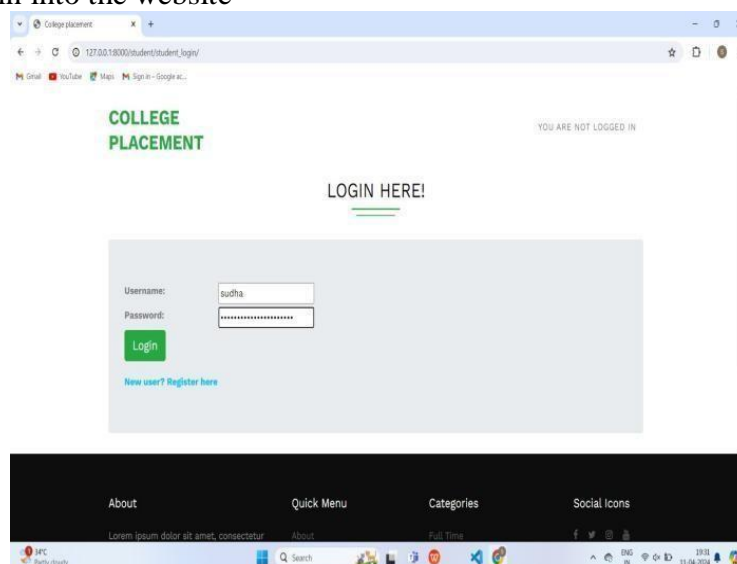


6.3 The above page shows the Dashboard of the Admin



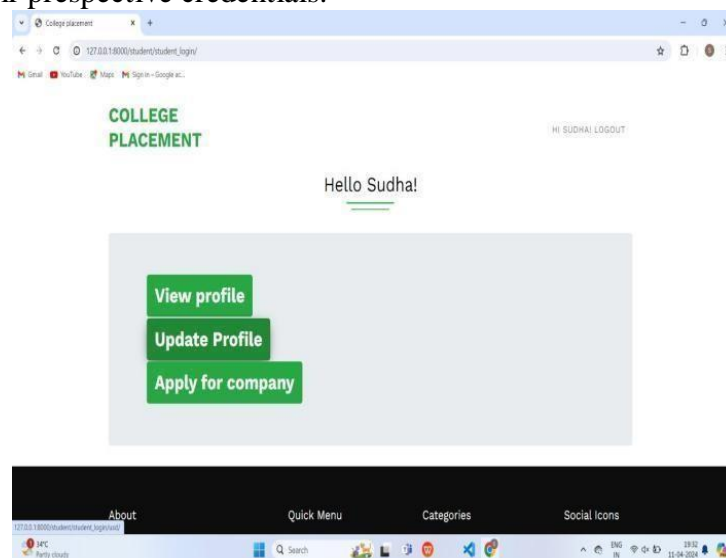
The screenshot shows a web browser window with the URL `127.0.0.1:8000/student_register/`. The page title is "COLLEGE PLACEMENT" and it says "YOU ARE NOT LOGGED IN". The registration form includes fields for Username (filled with "sudha"), First name (filled with "Paritala"), Last name (filled with "sudha rani"), Email (filled with "sudhaparitala99@gmail.com"), Password, and Password confirmation. A green "Register" button is at the bottom. Password requirements are listed: "Your password can't be too similar to your other personal information.", "Your password must contain at least 8 characters.", "Your password can't be a commonly used password.", and "Your password can't be entirely numeric."

6.4 The above page shows the Register Page of the Student and how they can use the credentials to login into the website

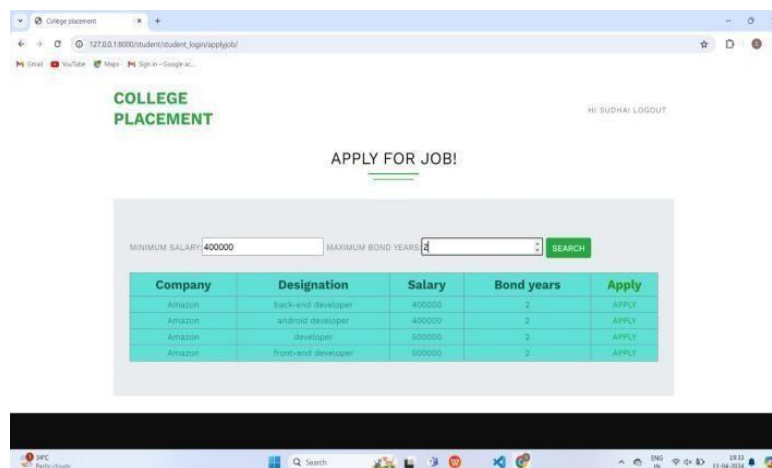


The screenshot shows a web browser window with the URL `127.0.0.1:8000/student_login/`. The page title is "COLLEGE PLACEMENT" and it says "YOU ARE NOT LOGGED IN". The login form has fields for Username (filled with "sudha") and Password (filled with "*****"). A green "Login" button is below the fields. A link "New user? Register here" is at the bottom left. The page also features a "LOGIN HERE!" heading and a footer with "About", "Quick Menu", "Categories", and "Social Icons".

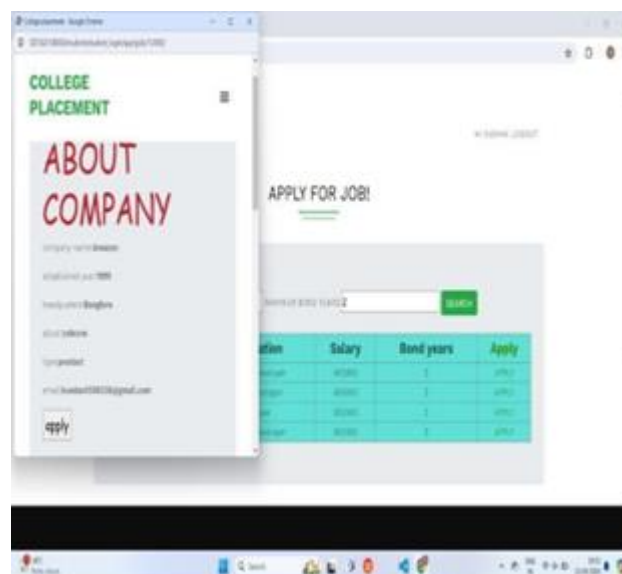
6.5 The above page shows the login page for Students, where they can log into the website using their perspective credentials.



6.6 The above page shows the dashboard of the Student.



6.7 The above page displays the upcoming job fairs in the college when students search for them.



6.8 The page displays details of a particular drivethat the student can apply for.

VII CONCLUSION

The placement automation website represents a significant step forward in optimizing the placement process within educational institutions by targeting the inefficiencies caused by manual methods particularly evident at srk institute of technology the automated placement application offers a robust solution with its accessibility throughout the organization and user-friendly interface it empowers both students and tpos to actively engage in the process of placements by leveraging technology to streamline operations and ensure timely dissemination of information this initiative ultimately aims to maximize the convenience of placement opportunities for every student as colleges continue to adapt to evolving technological landscapes such innovations will play a pivotal role in shaping the future of student placement programs.

REFERENCES

1. Prabhakar r g patil s b patil p p placements management system for higher educational institutions
2. Karthick p manohar k m design and implementation of an online placement management system
3. Kumar s singh r k singh v design and implementation of the web-based campus placement management system
4. Sayyed m umatiya f zehera s pappu s college placement management system rizvi college of engineering mumbai india
5. Thangavel s k sankar d a student placement analyzer a recommendation system using machine learning amrita school of engineering coimbatore amrita vishwa vidyapeetham amrita university
6. Shumin l yuan r research on campus recruitment management platform based on dynamic electronic commerce journal of emerging technologies and innovative research
7. panchal t wadke m sedamkar.