

PLACEMENT MANAGEMENT SYSTEM**N. Khalique Ahmed**

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ABSTRACT

The Placement Management System is a web-based application designed to simplify and automate the placement activities of educational institutions. The system provides a centralized platform where students, placement officers, and recruiters can efficiently interact to manage student information, company details, job postings, and placement status in a structured and secure manner. The application is developed using the Laravel framework with a MySQL database to ensure data integrity and reliability. By digitizing the placement process, the system reduces manual effort, minimizes paperwork, and improves overall efficiency, enabling quick access to placement records and accurate tracking of student outcomes.

Keywords:

Placement Management, Ticket Management, Laravel, Web Application, MySQL, Recruitment Automation, User Authentication.

INTRODUCTION

In today's academic environment, educational institutions handle a massive volume of placement-related data, including student profiles, recruiter requirements, and job application statuses. Managing these manually through spreadsheets or paper-based records often leads to confusion, data redundancy, and delayed communication. The Placement Management System provides a centralized platform where students can apply for jobs and administrators can monitor the recruitment lifecycle in a structured manner. The system is developed using PHP with the Laravel framework—a powerful MVC framework—and MySQL as the backend database.

EXISTING SYSTEM

In many institutions, placement activities are still managed manually or through basic spreadsheets. These approaches lack a unified structure, lead to data fragmentation, and often result in communication gaps between the placement cell and students. While commercial recruitment tools exist, they are often expensive and not tailored to the specific needs of an institutional placement department. This creates a need for a customizable, cost-effective solution that streamlines local campus recruitment processes.

PROPOSED SYSTEM

The proposed system is a web-based application following the Model-View-Controller (MVC) architecture provided by Laravel. It features distinct modules for Admin, Students, and Recruiters. The system automates student registration, job posting, and application tracking. Key advantages include real-time status visibility for students, secure role-based access control, and centralized data management which significantly reduces the workload on the placement office.

SYSTEM IMPLEMENTATION

The development environment and technology stack utilized for this project are summarized in Table 1 below.

Component	Technology Used
Programming Language	PHP
Framework	Laravel (MVC)

Frontend	HTML, CSS, JavaScript
Database	MySQL
Server	Apache (XAMPP)

Table 1: Development Environment**MODULE DESCRIPTION**

- **Admin Module:** Responsible for managing student databases, verifying company registrations, and generating comprehensive placement reports.
- **Student Module:** Enables students to create detailed profiles, upload resumes, view active job listings, and track their application status.
- **Company Module:** Allows recruiters to post job descriptions, set eligibility criteria, and view the list of applied candidates.
- **Placement Officer Module:** Facilitates the coordination between companies and students, monitoring the interview stages and final selections.

SYSTEM TESTING

The system was subjected to rigorous manual testing to ensure functionality across all modules. This included login validation, job application workflows, and database transaction integrity. Sample test cases are detailed in Table 2.

Test ID	Description	Input	Expected Result	Status
TC001	User Login	Valid Credentials	Dashboard Access Granted	Pass
TC002	Job Posting	Job Role Details	Record stored in MySQL	Pass
TC003	Application	Student ID	Applied status updated	Pass
TC004	Empty Fields	Missing Fields	Validation error shown	Pass

Table 2: Sample Test Cases**CONCLUSION**

The Placement Management System was successfully designed and implemented to streamline the recruitment activities of an educational institution. By replacing manual methods with a robust Laravel-based web application, the system improves transparency and reduces response times for both students and recruiters. Future enhancements, such as AI-based job recommendations and SMS/Email notifications, will further enhance the user experience and effectiveness of the campus placement process.

REFERENCES

- 1) Django Software Foundation. (2023). Django Documentation. Retrieved from <https://docs.djangoproject.com/>
- 2) Python Software Foundation. (2023). Python Language Reference. Retrieved from

IJETRM

International Journal of Engineering Technology Research & Management (IJETRM)

Journal Article

<https://ijetrm.com/issue/>

<https://www.python.org/>

- 3) SQLite Consortium. (2023). SQLite Documentation. Retrieved from <https://www.sqlite.org/docs.html>
- 4) Turban, E., Volonino, L., & Wood, G. R. (2015). Information Technology for Management. John Wiley & Sons.
- 5) Sommerville, I. (2016). Software Engineering (10th ed.). Pearson Education.
- 6) Zendesk Inc. (2023). Zendesk Help Center Platform Overview. Retrieved from <https://www.zendesk.com/>
- 7) Mozilla Developer Network. (2023). Web Technologies Documentation. Retrieved from <https://developer.mozilla.org/>
- 8) Pressman, R. S. (2014). Software Engineering: A Practitioner's Approach (8th ed.). McGraw-Hill Education.