© APR 2026 | IRE Journals | Volume 9 Issue 10 | ISSN: 2456-8880
DOI: https://doi.org/10.64388/IREV9I10-1716376

Placement Tracking System

S JOHN DAVID[1], J ADEETHI ABISHEHA[2], L ATHIRA[3], S PRIYA[4], M ROHINI[5]
[1]*Assistant Professor, Salem College of Engineering and Technology, Salem- Attur Main Road, M. Perumapalayam, Selliamman Nagar, Salem.*
[2, 3, 4, 5]*Student (B.E Computer Science and Engineering), Salem College of Engineering and Technology, Salem- Attur Main Road, M. Permapalayam, Selliamman Nagar, Salem.*

Abstract- ***The Placement Tracking System is a software application designed to efficiently manage and monitor the placement activities of students in educational institutions. The system helps administrators, placement officers, and students to streamline the entire placement process by maintaining centralized data.It stores important details such as student profiles, academic performance, skills, company information, job roles, and recruitment status. The system allows placement officers to track student eligibility, schedule interviews, and update placement results in real time. Students can view job opportunities, apply for companies, and track their application status easily. The main objective of this system is to reduce manual work, improve data accuracy, and ensure transparency in the placement process. It also generates reports and analytics, which help institutions evaluate placement performance and make better decisions. Overall, the Placement Tracking System enhances efficiency, saves time, and provides a user-friendly platform for managing campus recruitment activities. The application maintains a structured database that stores student academic details, skills, certifications, company requirements, interview schedules, and final selection results. It provides real-time tracking of each student's placement journey, from application to final selection. Automated notifications and alerts ensure that students do not miss important updates. Additionally, the system includes reporting and analytics features that help institutions analyze placement statistics, such as the number of students placed, company-wise recruitment data, and overall placement performance. These insights assist in decision-making and improving placement strategies. The Placement Tracking System enhances transparency, reduces paperwork, improves communication, and increases operational efficiency. It ensures data accuracy and provides a user-friendly interface accessible anytime, making it an essential tool for modern educational institutions.Overall, the Placement Tracking System enhances efficiency, saves time, and provides a user-friendly platform for managing campus recruitment activities.***

Index Terms- ***Real-Time Tracking, Placement Strategies, User-friendly Platform***

I. INTRODUCTION

In the modern education system, campus placement is one of the most important processes that directly impacts students' career growth and the institution's reputation. With the increasing number of students and companies participating in recruitment drives, managing placement activities manually has become complex and inefficient. Traditional methods such as maintaining records in spreadsheets or paper files often lead to data redundancy, human errors, lack of proper coordination, and difficulty in retrieving information.

To overcome these challenges, the Placement Tracking System is introduced as a digital solution that automates and simplifies the entire placement process. It is designed to provide a centralized platform where all placement-related activities can be managed efficiently. The system ensures smooth communication between students, placement officers, and recruiters, thereby reducing delays and improving coordination.

The Placement Tracking System allows students to create and manage their profiles by entering academic details, skills, and achievements. Based on predefined eligibility criteria, students can view and apply for suitable job opportunities. Placement officers can monitor student eligibility, manage company visits, schedule interviews, and update recruitment results. Recruiters can also access relevant student data, shortlist candidates, and conduct hiring processes effectively.

One of the key features of this system is real-time tracking of placement activities. It provides instant updates regarding job openings, interview schedules, and selection results. Additionally, the system includes reporting and analytical tools that help institutions evaluate placement performance, identify trends, and improve strategies for future recruitment drives.

The system is typically developed using modern technologies such as web or mobile applications with a backend database to store and manage large volumes of data securely. It is designed with a user-friendly interface to ensure ease of use for all stakeholders.

In conclusion, the Placement Tracking System not only reduces manual workload and paperwork but also enhances transparency, accuracy, and efficiency in the placement process. It serves as a reliable and scalable solution for educational institutions aiming to improve their placement management system.

II. LITERATURE REVIEW

The placement process in educational institutions has evolved significantly with the advancement of information technology. Earlier, placement management was primarily conducted using manual methods such as paper records and spreadsheets. These traditional approaches were time-consuming, prone to human error, and lacked proper data organization and security. As a result, institutions faced challenges in tracking student progress, managing company data, and ensuring transparency.

Several studies and existing systems have attempted to address these challenges by introducing digital placement management solutions. Web-based placement systems have been widely adopted to centralize student information, automate job notifications, and streamline recruitment activities. These systems typically include modules for student registration, company management, job postings, and application tracking.

Research shows that implementing automated placement systems improves efficiency by reducing manual workload and minimizing errors. For example, online portals allow students to update their profiles and apply for jobs easily, while placement officers can filter eligible candidates based on predefined criteria such as academic performance and skills. This significantly speeds up the shortlisting process.

Some advanced systems also integrate features like real-time notifications, resume parsing, and analytics dashboards. These functionalities help in improving communication between stakeholders and provide valuable insights into placement statistics, such as placement rates and company participation trends.

However, existing systems also have certain limitations. Many lack user-friendly interfaces, making it difficult for non-technical users to operate them effectively. Some systems do not provide proper data security measures, leading to risks of data breaches. Additionally, limited customization and scalability can restrict their usage across different institutions with varying requirements.

Based on the analysis of existing solutions, the proposed Placement Tracking System aims to overcome these limitations by providing a more efficient, secure, and user-friendly platform. It focuses on real-time data management, improved accessibility, and enhanced reporting features to ensure a smooth and transparent placement process.

III. METHODOLOGY

The methodology of the Placement Tracking System explains the step-by-step approach used to design, develop, and implement the system. It follows a systematic process to ensure efficiency, reliability, and ease of use.

1. Requirement Analysis
In this phase, the requirements of the system are collected and analyzed. The needs of students, placement officers, and administrators are identified. Functional requirements such as student registration, job application, and placement tracking, as well as non-functional requirements like security and usability, are clearly defined.

© APR 2026 | IRE Journals | Volume 9 Issue 10 | ISSN: 2456-8880
DOI: https://doi.org/10.64388/IREV9I10-1716376

2. System Design

Based on the requirements, the system architecture is designed. This includes designing:

Database structure (student, company, and placement data)

User interface (simple and user-friendly screens)

System flow (how data moves between modules)

Tools like Data Flow Diagrams (DFD) and Entity Relationship (ER) diagrams are used to visualize the system design.

3. Development

In this phase, the actual coding of the system is carried out. The application is developed using suitable technologies such as:

Frontend: HTML, CSS, JavaScript

Backend: Java / Python / PHP

Database: MySQL

Different modules such as student module, admin module, and recruiter module are developed and integrated.

4. Testing

The developed system is tested to ensure it works correctly and meets user requirements. Testing includes:

Unit Testing (testing individual modules)

Integration Testing (checking module interaction)

System Testing (overall system performance)

Errors and bugs are identified and fixed during this phase.

5. Implementation

After successful testing, the system is deployed for real-time use in the institution. Users are given access, and basic training may be provided to ensure smooth operation.

6. Maintenance

Post-implementation, the system is regularly monitored and updated. Any issues are resolved, and new features may be added based on user feedback.

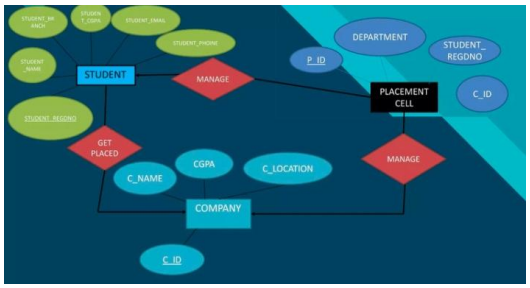


Fig : placement tracking system portal

a. SYSTEM OVERVIEW

The Placement Tracking System is a web-based application designed to manage and streamline the campus recruitment process in educational institutions. It provides a centralized platform where students, placement officers, and recruiters can interact efficiently and access placement-related information in real time.

The system is divided into multiple modules, each responsible for specific functionalities. The Student Module allows students to register, log in, update their profiles, upload resumes, and apply for job opportunities. The Admin Module manages overall system operations, including user management, data control, and monitoring placement activities. The Placement Officer Module is responsible for adding company details, defining eligibility criteria, scheduling interviews, and updating results. The Recruiter Module enables companies to post job openings, review student profiles, and select candidates.

b. SYSTEM ARCHITECTURE

The system follows a three-tier architecture:

1. Presentation Layer – Student,Placement Officer,Recruiters
2. Application Layer –Business logic and AI-based recommendation
3. Database Layer – Centralized storage for academic, attendance, feedback, and career-related data.

User sends request through frontend

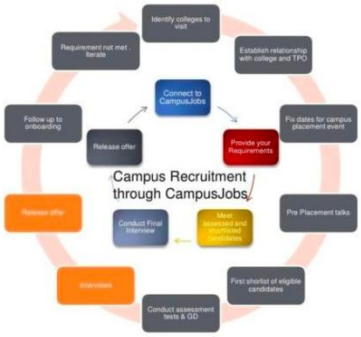
Backend processes the request

Data is retrieved/stored in database

Response is sent back to user

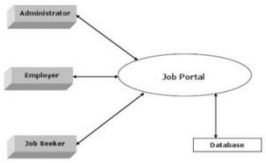
© APR 2026 | IRE Journals | Volume 9 Issue 10 | ISSN: 2456-8880
DOI: https://doi.org/10.64388/IREV9I10-1716376

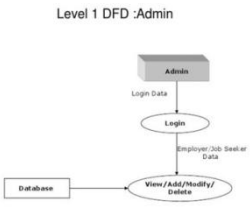
c. WORKFLOW OF THE SYSTEM



The system uses a three-tier architecture consisting of presentation layer, application layer, and data layer to ensure scalability, security, and efficient data management.

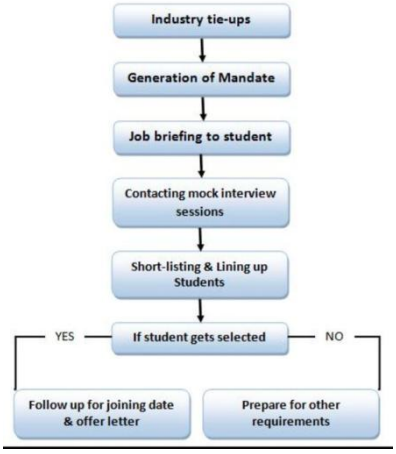
d. ADMIN MODULE





The Admin Module is the central part of the Placement Tracking System that controls and manages all system activities. It is responsible for handling user accounts, maintaining data, monitoring placement processes, and ensuring smooth operation of the system.

IV. PLACEMENT OFFICE MODULE



The Placement Officer Module is a key component of the Placement Tracking System that oversees and manages the end-to-end placement process. It facilitates communication between students and recruiters, ensures eligibility-based job allocation, organizes interviews, and maintains accurate placement records.

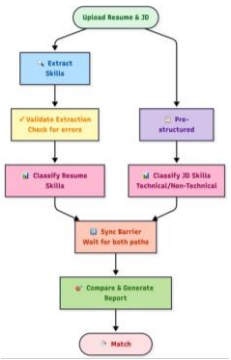
.

a. User Module with AI Recommendation

The User Module allows students to register, log in, manage their profiles, and apply for job opportunities in the Placement Tracking System. Students can update their academic details, skills, and upload resumes to build their profiles.

The AI Recommendation feature enhances this module by suggesting suitable job opportunities to students based on their profile data such as skills, marks, interests, and previous applications. It analyzes the student's information and matches it with company requirements to provide personalized job recommendations.

© APR 2026 | IRE Journals | Volume 9 Issue 10 | ISSN: 2456-8880
DOI: https://doi.org/10.64388/IREV9I10-1716376



V. FUTURE ENHANCEMENT

The Placement Tracking System can be enhanced by integrating advanced technologies and additional features to improve efficiency and user experience. One major improvement is the use of Artificial Intelligence (AI) and Machine Learning (ML) to provide more accurate job recommendations based on student skills, performance, and past placement data.

The system can be extended to include a mobile application, allowing students and recruiters to access the platform anytime and anywhere. Integration of real-time notifications through SMS, email, or mobile alerts can ensure users never miss important updates such as interview schedules and results.

Future versions can also support video interview integration, enabling companies to conduct online interviews directly through the system. Adding a resume parser can automatically extract key information from resumes, reducing manual data entry.

Advanced data analytics and dashboards can be implemented to provide insights such as placement trends, student performance, and company hiring patterns. This helps institutions make better strategic decisions.

Security can be improved by using multi-factor authentication (MFA) and data encryption to protect sensitive information. Additionally, the system can be scaled to support multiple colleges or universities, making it a centralized placement platform.

IV. RESULT

nt Tracking System was successfully implemented and tested to ensure that all modules function correctly. The system was developed using appropriate technologies and deployed in a controlled environment.

During the verification phase, all functionalities such as student registration, login, profile management, job application, company management, and result updates were tested. The system produced accurate and expected outputs for all inputs. Each module, including Admin, Placement Officer, and User modules, was verified individually and as a whole system.

The testing results showed that the system is reliable, efficient, and user-friendly. It reduces manual work, ensures data accuracy, and provides real-time tracking of placement activities. No major errors were found during testing, and minor issues were resolved successfully.

Overall, the system meets all the specified requirements and performs effectively in managing placement activities.

CONCLUSION

The Placement Tracking System has been successfully designed and developed to simplify and automate the campus recruitment process. The system provides a centralized platform for managing student data, company details, job postings, and placement activities efficiently.

By replacing manual methods with an automated system, it reduces paperwork, minimizes errors, and improves data accuracy. The system ensures smooth communication between students, placement officers, and recruiters, making the entire placement process more transparent and organized.

All modules, including Admin, Placement Officer, and User Module, work together effectively to track and manage placement activities in real time. The integration of features like job application tracking

and AI-based recommendations further enhances the system's usability and performance.

Overall, the Placement Tracking System improves efficiency, saves time, and provides a reliable solution for institutions to manage placements effectively. It meets all the project requirements and can be further enhanced with advanced technologies in the future.

REFERENCES

[1] Nilesh Patil, A. Sharma, and R. Gupta, "Design and Implementation of Placement Tracking System," International Journal of Computer Applications, vol. 183, no. 7, pp. 25–30, 2022.
[2] P. Shanmugam and Janhavi Lenka, "Enhancing Student Placement Preparation Through Web Application," International Journal of Engineering Research & Technology (IJERT), vol. 13, no. 2, pp. 150–155, 2024.
[3] Punitha Nicholine J. and Lakshmi Priya B., "Placement Management System," International Journal of Computer Science and Engineering, vol. 11, no. 3, pp. 45–50, 2023.
[4] Rohit Patil, Rajpal Pawar, "Web Based Placement Management and Tracking System," International Journal of Engineering Research & Technology (IJERT), vol. 12, no. 5, pp. 210–215, 2023.
[5] Alfiya Banu and Dr. Manju Bargavi S. K., "A Concise Study on Placement Management System," International Journal of Advanced Research in Computer Science, vol. 13, no. 2, pp. 120–125, 2022.