

Mitra Training and Placement Portal 2.0

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Abstract—

The MITRA: Training and Placement Portal 2.0 is an advanced web-based solution developed to streamline and modernize the training and placement process in academic institutions. This portal is designed to bridge the gap between students, the Training & Placement (T&P) cell, and recruiting companies by providing a centralized, efficient, and user-friendly platform.

The portal allows students to register, update their profiles, upload resumes, view job and internship opportunities, and track their application status. The T&P department can post company drives, manage student shortlists, schedule training programs, and generate insightful reports. Additionally, companies can directly post job requirements, access student profiles, and shortlist candidates, making the recruitment process more transparent and effective. With features like real-time notifications, secure login, data-driven dashboards, and enhanced communication channels, MITRA 2.0 ensures a seamless experience for all stakeholders. The system is placement success rate and overall institutional efficiency developed using modern web technologies ensuring scalability, security, and performance. This project aims to automate placement workflows, reduce manual errors, save time, and enhance collaboration between all users, ultimately increasing the placement success rate.

I. INTRODUCTION

Modern educational institutions face increasing pressure to ensure that graduates are both technically skilled and job-ready. The MITRA Placement Portal was originally designed to streamline placement activities at Prof. Ram Meghe Institute of Technology and Research (PRMIT&R;). It automates the management of student data, placement drives, and recruiter interactions through a web-based platform. However, employability is not determined solely by academic excellence or automated placement logistics. Factors such as aptitude, communication, analytical thinking, and personality traits significantly influence recruitment outcomes. The absence of psychometric assessment and structured training within the current system limits its impact on holistic student preparation. Therefore, this paper reviews the

existing framework and proposes modifications to bridge these gaps effectively.

II. LITERATURE REVIEW

1. Reference to Previous Systems

The team studied earlier systems like Online Training and Placement System and Placement Support System. These works highlighted the benefits of digital registration, storing structured data, automating communication with students, and authorizing resumes.

2. Identification of Success Factors for Placement Portals They emphasized design aspects such as user-friendly interface, personalized recommendations, employer engagement, analytics, and integration with career services. This shows they analyzed how existing placement portals succeed or fail, and identified essential features for improvement.

3. Recognition of Limitations in Existing Systems Traditional methods like manual record keeping, campus notices, and job fairs are inefficient, time-consuming, and error-prone. Existing online systems lacked smooth integration between students, companies, and placement cells.

4. Inclusion of User Experience (UX) Design Considerations

Their review highlighted usability testing, accessibility for differently-abled users, personalization, and gamification as modern requirements.

5. Gap Identification

They concluded that current systems do not adequately support automation, communication, sorting/searching student data, and notification features. These gaps became the motivation for developing the MITRA Placement Portal.

The literature review in their project mainly examined existing online placement systems, recruitment platforms, and their shortcomings. They studied prior

research on automation, data handling, user-centric design, and emerging technologies like AI and blockchain. Based on this, they identified inefficiencies (manual processes, poor communication, lack of real-time updates) and proposed their system (MITRA) as a solution that integrates automation, analytics, user-friendly design, and better recruiter-student interaction.

III. PROBLEM STATEMENT

Although the MITRA Placement Portal provides automation for student registration, resume management, recruiter interaction, and placement tracking, it still faces significant limitations. The existing system is largely recruiter-centric and focuses mainly on streamlining administrative tasks rather than enhancing student preparedness. Current gaps identified include:

1. Lack of Psychometric Assessment – The portal does not evaluate students’ aptitude, logical reasoning, personality traits, or communication abilities, which are crucial parameters for employability and recruitment decisions. Recruiters often require more than academic scores to assess the suitability of a candidate.
2. Absence of Training and Skill Development Modules – While the system facilitates job applications, it does not provide structured training materials, mock assessments, or interview practice. Students are left without a systematic way to improve their skills or receive targeted preparation for placement drives.
3. No Feedback or Improvement Cycle – The system follows a one-way process where students apply and recruiters shortlist, but there is no provision for providing personalized feedback to students or recommending areas of improvement.
4. Limited Use of Analytics for Career Readiness – Although analytics is used for placement statistics, the platform does not analyze student performance in aptitude or soft skills to create individualized learning paths..

IV. PROPOSED MODIFICATION

To overcome the above limitations, we propose the integration of two additional modules into the MITRA Placement Portal:

1. Psychometric Module

Conducts aptitude, reasoning, and personality-based assessments.

Generates detailed reports highlighting students’ strengths, weaknesses, and behavioral tendencies. Provides recruiters with deeper insights into candidate suitability beyond academic records. Helps students gain self-awareness and identify areas that require improvement.

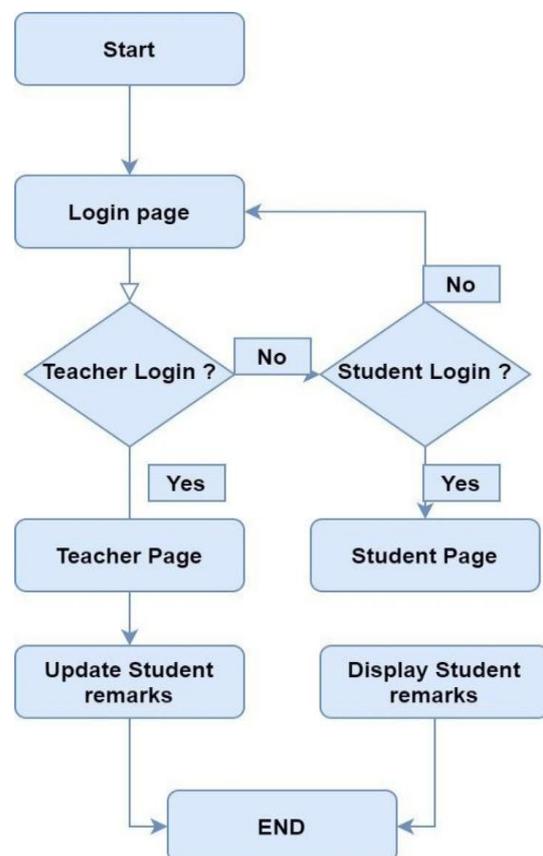
2. Training Module

Offers structured preparation resources including coding practice, aptitude tests, communication training, and mock interviews. Integrates with the psychometric module to deliver personalized training recommendations based on assessment results. Includes gamified elements (leaderboards, badges, progress tracking) to motivate student participation.

Facilitates continuous feedback loops, enabling students to monitor progress and recruiters to observe growth over time.

By adding these modules, the MITRA Placement Portal will evolve from a placement management system into a comprehensive career readiness platform. It will not only automate placements but also enhance employability, bridge skill gaps, and create a sustainable ecosystem connecting students, recruiters, and placement officers.

V. METHODOLOGY



VI. DESCRIPTION

The flowchart represents the user login and remarks handling module of the MITRA: Training and Placement Portal. It outlines the logical sequence of actions performed based on user roles—Teacher or Student—in a clear and structured manner.

1. Start

The process begins at the Start symbol, indicating the initiation of the system.

2. Login Page

The user is directed to the Login Page, which acts as the entry point for authentication. Here, the system provides fields for entering login credentials.

3. Teacher Login? (Decision)

The system checks whether the user is attempting to log in as a teacher.

If Yes:

The user is authenticated and redirected to the Teacher Page.

If No:

The system proceeds to check if the login attempt is by a student.

4. Student Login? (Decision)

If the login is not recognized as a teacher, the system evaluates whether it is a student login.

If Yes:

The user is authenticated and directed to the Student Page.

If No:

The login is invalid, and the system loops back to the Login Page, allowing the user to retry.

5. Teacher Page

This page is accessible only to users logged in as teachers. It provides features for:

Viewing student details.

Entering or updating student remarks or feedback related to training or placement performance.

6. Update Student Remarks

The teacher can update or modify remarks for students. These remarks are saved in the database and can be viewed by students later. After this operation, the system moves to the End of the flow.

7. Student Page

This interface is designed for students. After a successful login, the student is taken to this page where they can:

View their profile.

Access academic and placement-related feedback or remarks.

8. Display Student Remarks

Students can view the remarks or feedback provided by teachers. This enables transparent communication and helps students track their performance. Once remarks are viewed, the system proceeds to the End. This marks the completion of the login and remark operation cycle. Depending on the user role, either remarks were updated (by teachers) or viewed (by students).

VII. CONCLUSION

The MITRA Placement Portal successfully automates placement processes and improves efficiency in managing student and recruiter interactions. However, the absence of psychometric evaluation and training support limits its effectiveness in addressing the holistic needs of students. By integrating a Psychometric Module and a Training Module, the portal transforms from a placement management tool into a comprehensive career readiness ecosystem. These enhancements ensure that students are not only matched with opportunities but are also well-prepared, self-aware, and industry-ready. Recruiters gain deeper insights into candidate potential, while students benefit from continuous learning and improvement. Ultimately, the modified portal strengthens employability outcomes, bridges the gap between academic learning and industry requirements, and establishes a sustainable platform for future-ready placements.

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