

Student Training & Placement Portal

A PROJECT REPORT

*submitted in partial fulfilment of the requirements for the
degree of*

Bachelor of Technology

in

COMPUTER ENGINEERING

Major Project I (01CE0716)

Submitted by

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August, 2025



Marwadi
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Marwadi Chandarana Group



Major Project I (01CE0716)

Department of Computer Engineering
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Marwadi University

A.Y. 2025-26

CERTIFICATE

This is to certify that the project report submitted along with the project entitled **Online Lost and Found Portal For College Campus** has been carried out by **Dhruv Makwana (92201703215), Ved Barbhaya(92310103100), Vagh Ghanshyam(92200103280)** under my guidance in partial fulfilment for the degree of Bachelor of Technology in Computer Engineering, 7th Semester of Marwadi University, Rajkot during the academic year 2025-26.

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DECLARATION

We hereby declare that the **Major Project-I (01CE0716)** report submitted along with the Project entitled **Student Training & Placement Portal** submitted in partial fulfilment for the degree of Bachelor of Technology in Computer Engineering to Marwadi University, Rajkot, is a bonafide record of original project work carried out by me / us at Marwadi University under the supervision of **Prof. Kunal Khimani** and that no part of this report has been directly copied from any students' reports or taken from any other source, without providing due reference.

S.No **Student Name**

Sign

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3 Vagh Ghanshyam

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I would like to express my sincere gratitude to all those who contributed to the successful completion of my project, ***Student Training & Placement Portal***.

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Abstract

The ***Student Training and Placement Portal*** is a comprehensive web-based application developed to streamline the management of training programs and placement activities within an educational institution. Traditionally, these processes relied on manual records, emails, or notice boards, which often led to inefficiency, miscommunication, and delays in placement drives. This project aims to digitize and centralize training and placement operations, making them efficient, transparent, and easily accessible for students, Training & Placement Officers (TPOs), and recruiters.

The system enables students to create and maintain detailed profiles, upload resumes and certificates, and apply for job opportunities that match their eligibility criteria. It features role-based access for students, TPOs, and companies, along with real-time notifications for job postings, interview schedules, and training events. TPOs can post jobs, manage student data, coordinate interviews, and track placement progress, while companies can publish job requirements, view eligible candidates, and shortlist applicants. An analytics dashboard provides placement statistics and insights, helping institutions evaluate performance and improve outcomes.

The portal is built with modern technologies like **React, Node.js, MySQL, and Firebase authentication**. It is secure, scalable, and user-friendly. By replacing manual work with automation and improving communication between students, TPOs, and companies, this system reduces workload, improves transparency, and makes the entire placement and training process more effective.

List of Figures

Figure 4.1 High-Level Architecture Diagram	11
Figure4.2Use Case Diagram for Student Training &Placement Portal	11
Figure 4.3 ER Diagram for Student Training&PlacementPortal	12
Figure 4.4 Flowchart	14
Figure 4.5 Class Diagram	15
Figure 4.6 Database Schema	16
Figure 5.1: Login Page	18
Figure 5.2: Admin dashboard	19
Figure 5.3: Student dashboard	19

List of Tables

Table 5.1 Tech Stack	17
Table 6.1 Test Case Report	21
Table 7.1 Achievements and Objectives	24

Abbreviations

- **SDLC** – Software Development Life Cycle
- **API** – Application Programming Interface
- **CSS** – Cascading Style Sheets
- **DB** – Database
- **SQL** – Structured Query Language
- **UAT** – User Acceptance Testing
- **TPO** – Training and Placement Officer
- **UI** – User Interface
- **UX** – User Experience
- **CRUD** – Create, Read, Update, Delete
- **HTTPS** – Hypertext Transfer Protocol Secure
- **SaaS** – Software as a Service

Table of Contents

Declaration	i
Acknowledgement	ii
Abstract	iii
List of Figures	iv
List of Tables	v
List of Abbreviations	vi
Table of Contents	vii
Chapter 1 – Introduction	1
1.1 Introduction to Topic	1
1.2 Background	1
1.3 Problem Statement	2
1.4 Objectives	2
1.5 Scope of the Project	2
Chapter 2 – Literature Review / Existing Systems	4
2.1 Overview of Current Solutions	4
2.2 Limitations of Existing Systems	5
2.3 Proposed Solution – Lost and Found Portal	5
Chapter 3 – System Analysis	7
3.1 Requirement Analysis	7
3.1.1 Functional Requirements	7
3.1.2 Non-Functional Requirements	8
3.2 Feasibility Study	8
3.2.1 Technical Feasibility	8
3.2.2 Operational Feasibility	8
3.2.3 Economic Feasibility	9
3.3 Conclusion of System Analysis	9

Chapter 4 – System Design	10
4.1 High-Level Architecture Diagram	10
4.2 Use Case Diagram	11
4.3 ER Diagram / Database Design	12
4.4 Flowchart	13
Chapter 5 – System Implementation	17
5.1 Technologies Used	17
5.2 Key Features Implemented	17
5.3 Interface.....	18
Chapter 6 – Testing	20
6.1 Testing Strategies	20
6.2 Test Cases & Results	21
6.3 Testing Summary	22
Chapter 7 – Results & Conclusion	23
7.1 Results & Discussion	23
7.2 Performance Analysis	23
7.3 Achievements vs Objectives	24
7.4 Conclusion & Future Scope	24
References	29

CHAPTER 1

INTRODUCTION

1. Introduction

The **Student Training and Placement Portal** is a web-based platform designed to streamline the management of training activities and campus placement processes in an organized manner. In many educational institutions, students often face difficulties in keeping track of job postings, interview schedules, training programs, and placement opportunities. Traditional methods of communication — such as physical notice boards, emails, or word-of-mouth — are often time-consuming, inefficient, and unreliable.

This project aims to bridge this gap by providing a **centralized, secure, and easy-to-use platform** where students can create and update their profiles, upload resumes, apply for jobs, and register for training programs. Training and Placement Officers (TPOs) can efficiently manage student records, post job opportunities, schedule interviews, and monitor placement statistics, while companies can directly share job requirements and shortlist candidates.

2. Background

With the rise of **digital transformation and web-based solutions**, these challenges can be effectively addressed. By creating a **dedicated portal** with features like role-based access, automated eligibility checks, real-time notifications, and analytics dashboards, the training and placement process can become more **efficient, transparent, and reliable**, benefiting students, TPOs, and recruiters alike.

3. Problem Statement

The absence of a centralized, reliable, and secure system for managing student training and placement activities leads to:

Delayed communication of job postings and interview schedules.

Inconvenience and confusion among students, TPOs, and recruiters.

Duplication of efforts and mismanagement due to manual record-keeping.

Lack of proper tracking of student applications, training progress, and placement statistics.

These issues highlight the need for a **dedicated portal** that can streamline the entire training and placement process while ensuring transparency, efficiency, and authenticity.

4. Objectives

The main goals of the **Student Training and Placement Portal** are:

1. To have one place to manage training programs & placement activities.
2. To facilitate students to create profile with academia details, skills and resume upload.
3. To develop secure login and role based access to students, TPOs and companies.
4. In order to create a systematic mechanism for posting of jobs, application tracking and scheduling of interviews.
5. To streamline the effectiveness, visibility and channel for work force training & Placement.

5. Scope of the Project

In Scope:

- **User registration and login system** with role-based access (Students, TPOs, Companies).
- **Student profile management** with resume and certificate uploads.
- **Job posting and application module** with automated eligibility checks.
- **Interview scheduling and notifications** for students.
- **Training program management** (courses, workshops, mock tests).
- **Analytics dashboard** for placement statistics and reports.

Out of Scope:

- Direct **placement guarantee** for students.
- **Salary negotiation** or contract handling between companies and students.
- Integration with **external government or third-party job portals**.

The portal can be deployed for use in **universities, colleges, and training institutes**. Its modular design allows for future upgrades, such as **AI-based resume/job matching, chatbot support, and mobile application integration**.

Chapter 2:

Literature Review / Existing Systems

2.1 Overview of Current Solutions

Training and placement is very important in every college. Students need a proper system to see job openings, training programs, and interview details. Right now, many colleges still use old or basic methods.

Some common solutions used today are:

1. Notice Boards
 - Jobs and training details are written on notice boards.
 - Simple to use but only works for students who are on campus.
2. Emails or WhatsApp Groups
 - TPOs send job details through emails or groups.
 - Fast, but messages get lost or mixed with other information.
3. College Internal Portals
 - Some colleges have their own small portals for placements.
 - Usually limited, not user-friendly, and only work inside campus network.
4. External Job Portals (LinkedIn, Naukri, Indeed, etc.)
 - Good for general jobs, but not designed for college placement.
 - Do not connect directly with TPOs or the college system.

These methods help a little, but they are not enough. Students, TPOs, and companies still face many problems

2.2 Limitations of Existing Systems

Current systems have many problems:

- **No Central System**
Information is spread across notice boards, emails, and websites. Students find it hard to keep track.
- **No Proper Tracking**
Hard to track which student applied, got shortlisted, or got placed.
- **Poor Search Options**
Students cannot easily search jobs based on their skills, CGPA, or branch.
- **No Reports or Analytics**
Colleges cannot easily see placement statistics or trends.
- **Not Mobile Friendly**
Some systems don't work well on mobiles.
- **Security Issues**
Without proper login, anyone can misuse data.

2.3 Proposed Solution – Student Training & Placement Portal

The **Student Training & Placement Portal** solves these problems with:

1. **One Central Platform** – Students, TPOs, and companies all use the same system.
2. **Secure Login** – Role-based access for students, TPOs, and companies.
3. **Student Profile** – Students can create profiles, add details, and upload resumes.
4. **Smart Job Matching** – Jobs are shown only to eligible students.
5. **TPO Control** – TPO can approve jobs, manage interviews, and verify data.
6. **Notifications** – Students get alerts about jobs and interviews.
7. **Tracking System** – Application status (applied, shortlisted, selected) is updated.
8. **Placement Reports** – Dashboard for TPO to see placement statistics.
9. **Mobile Friendly** – Works on mobile, tablet, and computer.

This portal will make the **placement process faster, easier, and more transparent**, helping students, TPOs, and companies all at once.

Chapter 3:

System Analysis

System analysis means understanding what the proposed system should do, what limits it may face, and whether it is possible to build it within the given resources. For the **Student Training & Placement Portal**, the analysis focuses on finding the required features, the quality it should maintain, and the feasibility of developing and using it in real college environments.

3.1 Requirement Analysis

The success of any project depends on collecting and defining the right requirements. For this portal, requirements were identified through discussions with students, TPOs, and by studying existing placement systems. Requirements are divided into two categories:

3.1.1 Functional Requirements

Student Features:

- Create and manage profile with academic details, skills, and resume uploads.
- Apply for jobs and track application status (applied, shortlisted, selected).
- Register for training programs and view schedules.

TPO Features:

- Add and manage job postings.
- Approve and verify student profiles.
- Schedule interviews and send notifications.
- View placement analytics and generate reports.

Company Features:

- Create company profile.
- Post job openings with eligibility criteria.
- View eligible candidates and shortlist them.

General Features:

- Role-based access (Student, TPO, Company).
- Real-time notifications for job postings and interviews.
- Dashboard for easy navigation.

3.1.2 Non-Functional Requirements

- **Responsive Design:** Works on desktops, laptops, tablets, and mobile devices.
- **Performance:** Pages should load quickly even with many students and jobs in the database.
- **Security:** Passwords stored in encrypted form, safe login, and protection against attacks like SQL injection.
- **Reliability:** System should run smoothly with minimum downtime, with database backups.
- **Scalability:** Can be extended with features like AI-based resume matching or mobile app integration.
- **Usability:** Easy to use for both technical and non-technical users.

3.2 Feasibility Study

Before development, the project was checked for feasibility in three areas:.

3.2.1 Technical Feasibility

The portal is technically possible because it uses widely used technologies:

Frontend: React, Tailwind CSS / Bootstrap

Backend: Node.js / Express

Database: MySQL or MongoDB

Authentication: Firebase

All are free, open-source, and well-supported. Hosting can be done on cloud services like AWS, Firebase, or Heroku.

3.2.2 Operational Feasibility

- The system solves a real problem faced by students, TPOs, and companies.
- It is faster and more accurate than manual notice boards, emails, or WhatsApp groups.
- Students are already familiar with online systems, so learning is easy.
- TPOs can handle records digitally, saving time and reducing errors.

3.2.3 Economic Feasibility

Cost is low because most technologies are open-source.

Main expenses: domain, hosting, and basic maintenance.

Benefits: faster placement process, reduced workload, better tracking, and higher satisfaction for students and recruiters.

3.3 Conclusion of System Analysis :

The analysis confirms that the **Student Training & Placement Portal** is both **needed and practical**. Requirements are clear, technologies are cost-effective, and benefits are significant. With strong technical, operational, and economic feasibility, the project is ready to move forward into the **design and development phase**.

Chapter 4:

System Design

System design means creating the overall structure of the system. It defines the **architecture, modules, interfaces, and database** that will be used to build the project. For the **Student Training & Placement Portal**, the design phase converts the requirements into a clear **blueprint for implementation**. The aim is to make the system **secure, scalable, user-friendly, and efficient**, while fulfilling both functional and non-functional requirements.

4.1 High-Level Architecture Diagram

The architecture of the system follows a **three-tier structure**:

1. Presentation Layer (Frontend)

- Built using **React, Tailwind CSS / Bootstrap**.
- Handles the user interface and interaction.
- Features: user login, registration, profile management, job posting, training modules, and dashboards.

2. Application Layer (Backend)

- Developed using **Node.js/Express**.
- Contains the business logic of the system.
- Functions: authentication, job posting, application processing, interview scheduling, notifications, and report generation.

3. Data Layer (Database)

- Managed using **MySQL or MongoDB**.

- Stores student details, company details, job postings, applications, interview schedules, and placement statistics.

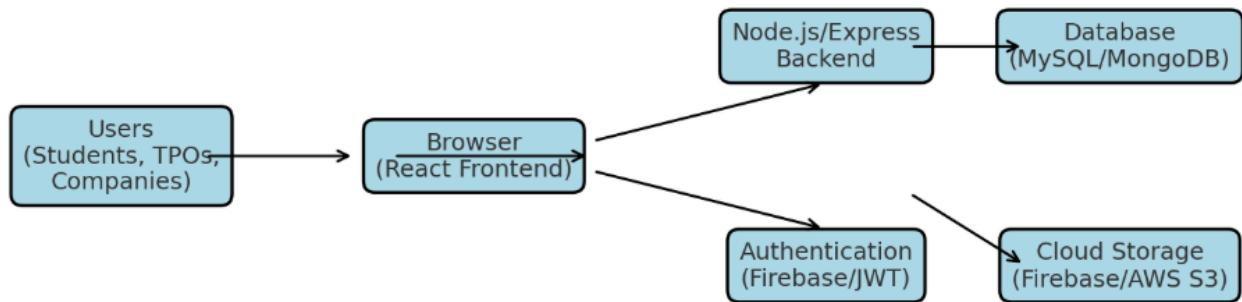


Figure 4.1:High level architecture

4.2 Use Case Diagram

The **Use Case Diagram** shows how different users (actors) interact with the system.

- **Students:** create profile, upload resume, apply for jobs, register for training, check notifications.
- **TPOs:** post jobs, verify student profiles, schedule interviews, view analytics.
- **Companies:** create profile, post jobs, view eligible students, shortlist candidates.

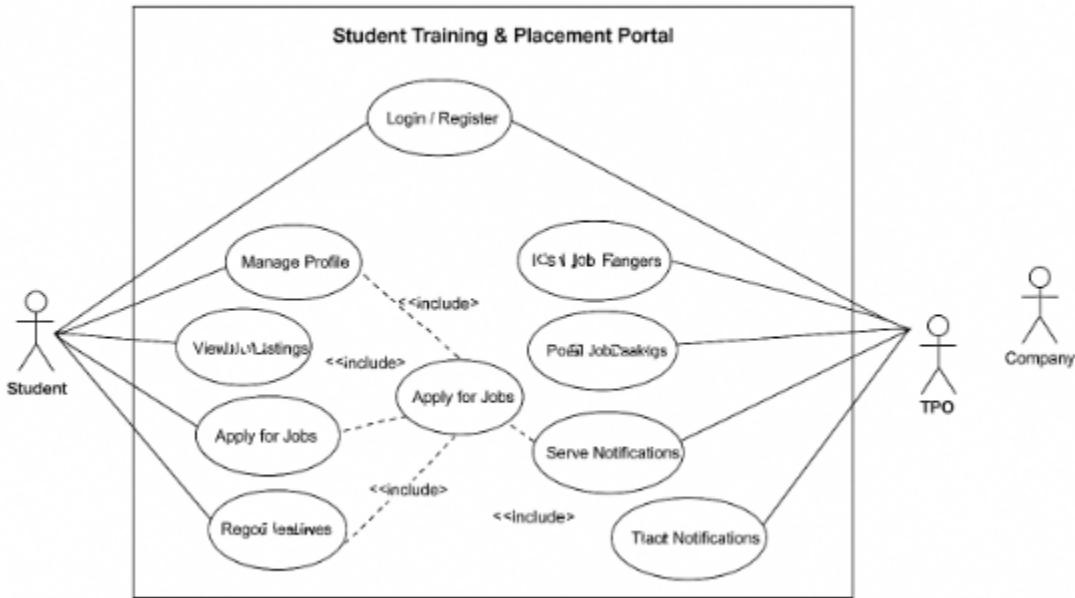


Figure 4.2: Use Case Diagram for Student Training & Placement Portal

4.3 ER Diagram / Database Design

The **ER Diagram** defines how the data is stored and linked:

- **Users Table** – students, TPOs, and companies.
- **Jobs Table** – job ID, company, title, eligibility, deadline.
- **Applications Table** – application ID, student ID, job ID, status.
- **Interviews Table** – schedule details for shortlisted students.
- **Training Table** – training modules, registrations, results.

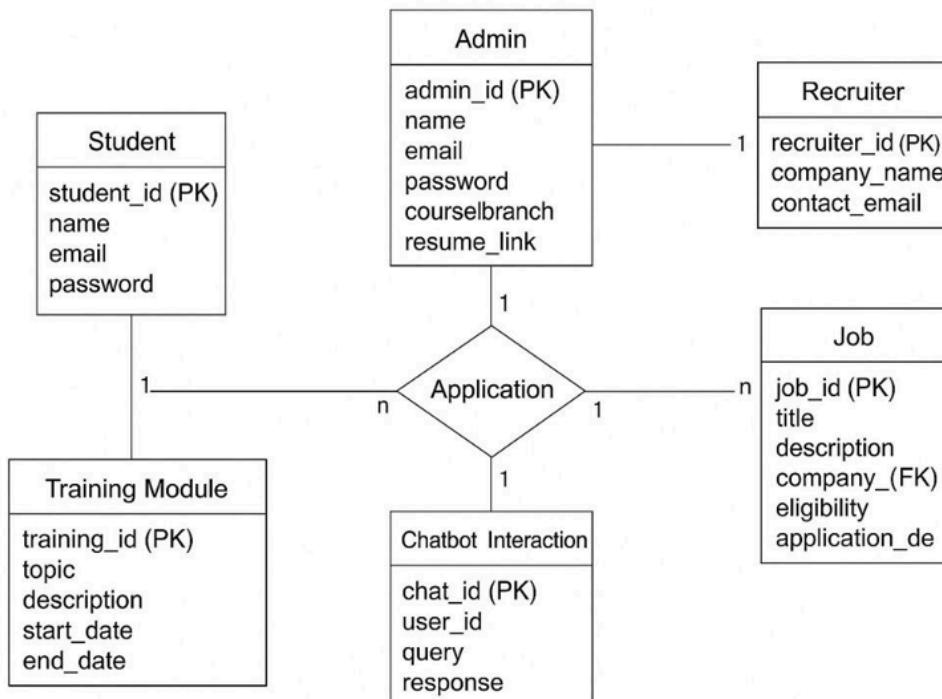


Figure 4.3: ER Diagram for Student Training & Placement Portal

4.4 Flowchart

The system's process flow is depicted in the flowchart, outlining the step-by-step sequence from user login to final item recovery.

- User logs in or registers.
- Student creates/uploads profile and uploads resume.
- TPO posts job openings or training programs.
- Students apply for jobs or register for training.
- TPO/Company reviews applications.
- Shortlisted students receive notifications for interviews.
- TPO updates placement results and generates reports.

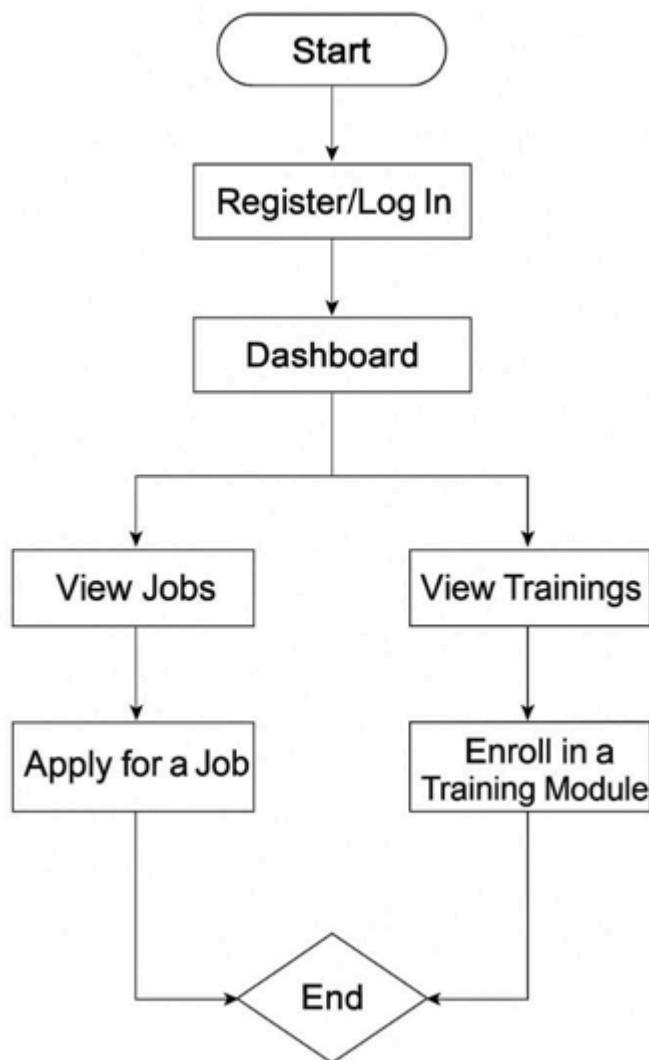


Figure 4.4: Flowchart

4.5 Class Diagram

The **Class Diagram** shows the main entities in the system and their relationships.

- **User Class** – attributes: user_id, name, email, role; methods: login(), updateProfile().
- **Student Class** – inherits from User; attributes: CGPA, skills, resume; methods: applyJob(), registerTraining().
- **Company Class** – inherits from User; attributes: company_name, job_postings; methods: postJob(), shortlistStudent().
- **TPO Class** – inherits from User; attributes: access_level; methods: verifyProfile(), scheduleInterview(), viewReports().
- **Job Class** – attributes: job_id, eligibility, deadline; methods: createJob(), updateJob().
- **Application Class** – attributes: application_id, status; methods: trackStatus().

4.6 Database Schema

- Users (user_id, name, email, role, password)
- Students (student_id, user_id, cgpa, branch, resume_link, skills)
- Companies (company_id, user_id, company_name, hr_contact)
- Jobs (job_id, company_id, title, description, eligibility, deadline)
- Applications (application_id, student_id, job_id, status)
- Interviews (interview_id, job_id, student_id, date, result)
- Trainings (training_id, title, description, schedule, tpo_id)

Chapter 5

System Implementation

5.1 . Technologies Used

Layer	Technology	Purpose
Frontend	React,HTML5, CSS3, JavaScript	To build the user interface of the portal.
Frontend Framework	Bootstrap/Tailwind CSS	To make the design responsive and mobile-friendly.
Backend	Node.js,Express.js	To handle server-side logic, API requests, and business rules.
Database	MySQL, MongoDB	Stores users, items, claims, and history records
Authentication	Firebase Auth / JWT	To provide secure login and role-based access.
Version Control	Git & GitHub	Tracks code changes and project versioning

Table 5.1: Tech Stack

5.2 Key Features Implemented

1. Role-Based Access Control
 - Separate dashboards for **Students, TPOs, and Companies**.
 - Each role has specific permissions and features.
2. Student Profile Management
 - Students can create and update profiles with academic details, skills, and resume uploads..
3. Job Posting & Application
 - Companies or TPOs can post job openings with eligibility criteria.

- Students can apply for jobs.
4. Training Module Management
- TPOs can upload and manage training programs.
 - Students can register for training and track completion

5. Search & Filter

- Jobs and training programs can be searched and filtered by skills, eligibility, or date.

6. Interview Scheduling & Notifications

- TPOs and companies can schedule interviews.
- Students receive **real-time notifications** for interviews and updates.

7. Application Tracking & Reports

- Students can track their applications (Applied, Shortlisted, Selected).
- TPOs can generate **placement statistics and reports**.

8. Secure Authentication

- Implemented using Firebase Auth with password encryption.

9. Activity Logs

- Records of student applications, company postings, and TPO actions are maintained for transparency.

5.3 Interfaces samples :

Secure Login form : Role based access login form.

The screenshot shows the 'College Dashboard' interface. At the top right, the user's email is listed as `marwadiuniversity1084@gmail.com` with a red 'Logout' button. Below the header, there are two sections: 'Companies Pending Verification' and 'Notifications'.
Companies Pending Verification: This section lists two companies:

- Tech Solutions Inc.**: Terms Accepted: Yes, Verified: No. Actions: **Verify** (green button) and **Reject** (red button).
- Innovatech Ltd.**: Terms Accepted: No, Verified: No. Actions: **Verify** (green button) and **Reject** (red button).

Notifications: This section displays a single notification:

New company registration pending verification
1 hour ago

Figure 5.1: collage dashboard

The screenshot shows the 'Company Dashboard' interface. At the top right, the user's details are shown as `Tech Solutions Inc. (techsolution1234@gmail.com)` with a red 'Logout' button. On the left, a sidebar menu has three items: 'Overview' (disabled), 'Jobs' (selected and highlighted in blue), and 'Applications'.
Create New Job: A form for creating a new job posting. It includes fields for 'Job Title', 'Package (e.g., ₹12 LPA)', 'Location', 'Date' (mm/dd/yyyy), 'Job Description', and a 'Create Job' button.
Posted Jobs: A list of one job posting:

Software Engineer
Posted: 2024-03-01
Applications: 15

Actions for this job include 'Edit' (blue button) and 'Delete' (red button). To the right of the job details is a green 'approved' status indicator.

Figure 5.2: companies dashboard

The screenshot shows a student dashboard with the following sections:

- Personal Information:** First Name: John, Last Name: Doe, Enrollment Number: EN2023001, Contact Number: +91 9876543210. An "Edit Profile" button is present.
- Academic Details:** Course: B.Tech, Branch: Computer Science, Semester: 6, CGPA: 8.5.
- Skills:** React, Node.js, Python, MongoDB.

The sidebar on the left includes links for Profile, Available Jobs, My Applications, and Notifications.

Figure 5.3: Student dashboard

Chapter 6 :

Testing

Verification is one step of proving that the software does what it should do. It verifies that the system is developed in accordance with the precise requirements, works adequately under all conditions, and satisfactory user experience. The testing of this system was refined through iterative steps including strategy formulation, test case preparation, execution, result analysis, and bug fixing.

6.1. Testing Strategies

Testing Strategies

A fusion of Black-Box and White-Box Testing was used for comprehensive coverage:

- **Black-Box Testing**

- Focused on the functionality of the system without examining the internal code structure.
- Testers interacted with the system's user interface, entered data, and observed results.

- **White-Box Testing**

- Involved reviewing the PHP backend logic to ensure correct data handling and database operations.
- Example: Checking whether SQL queries in the **Item Management Module** handle edge cases such as empty or invalid inputs.

- **Regression Testing**

- Performed after bug fixes to ensure that no new issues were introduced.

- **User Acceptance Testing (UAT)**

- Conducted with a sample group of end-users (Admin, Investigator, Analyst) to validate the system against real-world usage scenarios.

6.2 . Test Cases & Results

Test Case ID	Test Scenario	Input Data	Expected Result	Actual Result	Status
TC001	User Login	Valid credentials	Redirect to dashboard	Redirected successfully	Pass
TC002	User Login	Invalid credentials	Show error message	Error displayed	Pass
TC003	Report Lost Item	Valid item details	Data stored in DB & listed	Stored & displayed correctly	Pass
TC004	Report Lost Item	Missing required fields	Show validation error	Validation triggered	Pass
TC005	Search Items	Keyword search “Watch”	List items containing “Watch”	Correct list displayed	Pass
TC006	Claim Item	Valid claim request	Stored in DB, pending approval	Works as expected	Pass
TC007	Admin Approves Claim	Claim ID with valid status	Status changed to Approved	Updated in DB	Pass
TC008	Delete Item	Item ID exists	Item removed from DB	Item removed successfully	Pass

Table 6.1 : Test case report

6.3 Testing Summary

The testing of the **Student Training & Placement Portal** confirmed that:

- All the major functional features (student profile, job post, apply, interview, training module) were well incorporated.
- The system ran smoothly for both, normal use and edge/boundary cases (e.g., dev work – trying to sign up with a high number of students at 1 time).
- We fixed bugs discovered during testing and retested the code with a test of regression.

Chapter 7:

Results & Conclusion

This chapter presents the outcomes of the implemented system, evaluates its performance against the defined objectives, and outlines potential areas for improvement. It also provides a summary of the work completed and the limitations encountered during the project.

7.1 Results & Discussion

The developed **Student Training & Placement Portal** successfully met the primary objectives defined in the early stages of the project. The system offers user-friendly modules for reporting lost items, claiming found items, and managing the overall process through an administrative interface.

Key results observed:

- **Functional Completion:** All major modules — Student Registration & Login, Job & Internship Listings, Training Module Management, Placement Statistics Dashboard, and Admin Controls — were successfully developed and tested.
- **User Experience:** The interface was built with **React and Tailwind CSS**, ensuring a **responsive, clean, and intuitive design** that offers a smooth navigation experience across devices.
- **Role-Based Access:**
 1. **Students:** View training schedules, apply for jobs, and track placement updates.
 2. **Admins:** Manage student records, update training/job postings, and generate reports.
 3. **Recruiters:** Post job openings and review candidate applications.

7.2 Performance Analysis

The performance of the portal was evaluated in terms of:

- **Response Time:** All key pages — including **job listings, training modules, and placement statistics** — load in **under two seconds** with the current dataset size, ensuring a smooth user experience.
- **Scalability:** The **database and backend architecture** are designed to handle **growing numbers of students, job postings, and training records** without requiring major structural changes.
- **Reliability:** Extensive testing, including **simultaneous logins, job applications, and admin updates**, demonstrated **consistent and stable performance** with no downtime or data errors.

7.3 Achievements vs Objectives

Objective	Achievement
Implement an online platform for lost and found management	Fully achieved with a functional web portal
Provide role-based access for different stakeholders	Implemented successfully
Enable search and claim process for found items	Fully functional
Maintain secure data handling and storage	Implemented using secure PHP sessions and SQL-based validations
Minimize manual effort and improve efficiency	Achieved through automation of data entry and approval processes

Table 7.1 Achievements and objectives

7.4 Conclusion & Future Scope

Conclusion

The project achieved its intended goals by delivering a reliable, secure, and user-friendly lost and found management system. The system streamlines item reporting, searching, and claim approval processes, thereby reducing administrative workload and improving retrieval rates.

Future Scope

- **Integration with Cloud Hosting** for higher scalability and accessibility.
- **Mobile Application Development** for Android/iOS to improve reach.
- **Image Recognition for Lost Items** using AI-based object matching.
- **Multi-Language Support** to accommodate a wider user base.

References

- [1] M. Priya and S. Kumar, “Design and Development of Online Lost and Found Management System,” *International Journal of Computer Applications*, vol. 176, no. 15, pp. 1–6, 2020.
- [2] R. Patel and A. Joshi, “Web-Based Portal for Lost and Found Item Tracking Using PHP and MySQL,” *International Journal of Emerging Technologies in Engineering Research*, vol. 9, no. 7, pp. 45–52, 2021.
- [3] G. Kaur and R. Sharma, “Role-Based Access Control in Web Applications: A Case Study on University Systems,” *International Journal of Computer Science and Information Security*, vol. 17, no. 2, pp. 101–107, 2019.
- [4] I. Sommerville, *Software Engineering*, 10th ed. Boston, MA: Pearson Education, 2016.
- [5] R. S. Pressman and B. R. Maxim, *Software Engineering: A Practitioner’s Approach*, 8th ed. New York, NY: McGraw-Hill Education, 2019.



REVIEW CARD: REVIEW 1

Team ID: 7CE-069	Team Size: 3	Project	Date: 12/07/2025
Student Name	Dhruv my kumar		
Enrollment No.	98701203715		
Class	7 E C - 2		
Internal Guide Name	Prof. Kunal khimani		
Title of Project	Student Training & Placement		

Performance Evaluation (Out of 20 marks)

Task	Reviewer 1 Remarks	Reviewer 2 Remarks	Assigned Marks
Introduction and Abstract (02 marks)	Well define.	Need some improvement ✓	
Literature Review/Survey of Existing latest systems/Business Models/Products (05 marks)	No base data for comparing to others	No Business model compared ✓	2
Tools & Technology, Proposed Approach / Solution / Methodology (04 marks)	Not Average knowledge about tools	Need to know tools & tech	3.
Implementation/Execution Flow with Planning and Scheduling, Expected Outcome (05 marks)	Done (front end only)	front-end part has implemented ✓	4
Presentation and Q&A (04 marks)	Just OK	Need some Improvement	2.5



Suggestions by Panel Members

Panel Members	Suggestions
Reviewer 1	<p>Improvement required in communication (Hindi) Try to improve your communication skills.</p>
Reviewer 2	Improvement required in presentation and implementation part
Internal Guide	Add comparisons with other such applications.

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Pappu Kumar Rev.	P
Reviewer 2	Amnaud Singh	A
Internal Guide	Kunal Khimani	D

Dinesh
Student Signature

J
HoD Signature



REVIEW CARD: REVIEW 1

Team ID: 7CE - 069	Team Size: 3	Project	Date: 12/7/25
Student Name	Ved Bharatkumar Barbhaya		
Enrollment No.	92310103100		
Class	7TC2		
Internal Guide Name	Prof. Kunal Khimani		
Title of Project	Student Training & Placement Portal		

Performance Evaluation (Out of 20 marks)

Task	Reviewer 1 Remarks	Reviewer 2 Remarks	Assigned Marks
Introduction and Abstract (02 marks)	well defini.	improvement required	2
Literature Review/Survey of Existing latest systems/Business Models/Products (05 marks)	Not completely written	Not available	2
Tools & Technology, Proposed Approach / Solution / Methodology (04 marks)	Average knowledge about tools	Need to know more	3.
Implementation/Execution Flow with Planning and Scheduling, Expected Outcome (05 marks)	Done	some part implemented	5
Presentation and Q&A (04 marks)	Good	Satisfactory	4.



Suggestions by Panel Members

Panel Members	Suggestions
Reviewer 1	Needs to know more about tools & technology.
Reviewer 2	Need to improve tool & tech & domain knowledge.
Internal Guide	Add lit. review and improve tech knowledge

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Pappu Kumar Ran.	
Reviewer 2	Anand Singh	
Internal Guide	Kunal Khimani	

Student Signature

HoD Signature



REVIEW CARD: REVIEW 1

Team ID: 7CE - 069	Team Size: 3	Project	Date: 12/7/25
Student Name	Vagh Chanshyan H.		
Enrollment No.	92200103240		
Class	7TC4		
Internal Guide Name	Prof. Krymjal Khimani		
Title of Project	student Training and Implementation project		

Performance Evaluation (Out of 20 marks)

Task	Reviewer 1 Remarks	Reviewer 2 Remarks	Assigned Marks
Introduction and Abstract (02 marks)	Not even defined	Abstract is not proper	1
Literature Review/Survey of Existing latest systems/Business Models/Products (05 marks)	No company data	Business model not complete	2
Tools & Technology, Proposed Approach / Solution / Methodology (04 marks)	Inadequate knowledge about tools	Needs to improve tech & tools	2
Implementation/Execution Flow with Planning and Scheduling, Expected Outcome (05 marks)	Don't know	Some front end part implemented	3
Presentation and Q&A (04 marks)	Not Good (bad)	Need to improve	0/4

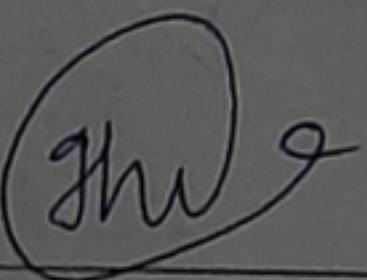


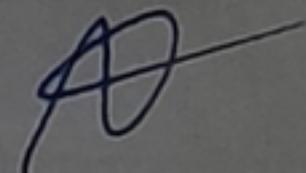
Suggestions by Panel Members

Panel Members	Suggestions
Reviewer 1	Need to improve communication as well as knowledge about project.
Reviewer 2	Need to improve communication skills, tools & tech and domain knowledge.
Internal Guide	Need to improve literature review and presentation

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Pappu Kumar Rao	
Reviewer 2	Omendra Singh	
Internal Guide	Kunal Kiniemi	


Student Signature


HoD Signature



REVIEW CARD: REVIEW 2

Team ID: 7CE_069	Team Size: 3	Project	Date: 23/8/25
Student Name	Dheev Makwana		
Enrollment No.	92201703215		
Class	EC2		
Internal Guide Name	Kunal Khimani		
Title of Project	Student Training and Placement Portal		

Performance Evaluation (Out of 20 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks
Summary & Evaluators' Remarks of Review 1 (02 marks)	Partially done.	Partially done	1
Changes/updates done based on Review 1 comments/remarks (04 marks)	Partially modified	Partially modified	3
Implementation (100%) of proposed work (10 marks)	Partially completed	Partially completed	7
Presentation and Q&A (04 marks)	OK	OK	3

Suggestions by Panel Members

Improvement Comments/Suggestions from Panel Members

Need conceptual clarity and implementation should be completed.

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Rajesh Kumar Pawar	to
Reviewer 2	Kamlesh S. Patil	rk

Dheev
Student Signature

Kunal
HoD Signature

Follow Up Remarks by Internal Guide after Review 2

Complete implementation

Internal Guide Name & Signature: Kunal Khimani Khimani



REVIEW CARD: REVIEW 2

Team ID: <u>7CE_069</u>	Team Size: <u>3</u>	Project	Date: <u>23/8/25</u>
Student Name	<u>Ved Barbhava</u>		
Enrollment No.	<u>92310103100</u>		
Class	<u>TC2</u>		
Internal Guide Name	<u>Kunal Khimani</u>		
Title of Project	<u>Student Training and Placement Portal.</u>		

Performance Evaluation (Out of 20 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks
Summary & Evaluators' Remarks of Review 1 (02 marks)	<u>partially done</u>	<u>partially done</u>	<u>1</u>
Changes/updates done based on Review 1 comments/remarks (04 marks)	<u>partially modified</u>	<u>partially modified</u>	<u>3</u>
Implementation (100%) of proposed work (10 marks)	<u>partially complete</u>	<u>partially completed</u>	<u>7</u>
Presentation and Q&A (04 marks)	<u>OK,</u>	<u>OK</u>	<u>3</u>

Suggestions by Panel Members

Improvement Comments/Suggestions from Panel Members

Need concept to be clear and implementation not completed

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	<u>Rajendra Ray</u>	<u>JK</u>
Reviewer 2	<u>Kamlesh Patle</u>	<u>JCP</u>

Student Signature

Follow Up Remarks by Internal Guide after Review 2

Complete implementation

Internal Guide Name & Signature: Kunal Khimani Kunun

HoD Signature



REVIEW CARD: REVIEW 2

Team ID: 7CE_069	Team Size: 3	Project	Date: 23/8/25
Student Name	Ghanashyam Vagh		
Enrollment No.	92200103280		
Class	TC4		
Internal Guide Name	Kunal Khimani		
Title of Project	Student Training and Placement Portal.		

Performance Evaluation (Out of 20 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks
Summary & Evaluators' Remarks of Review 1 (02 marks)	Partially done.	Partially done	1
Changes/updates done based on Review 1 comments/remarks (04 marks)	Partially modified	Partially modified	3
Implementation (100%) of proposed work (10 marks)	Partially completed	Partially completed	7
Presentation and Q&A (04 marks)	OK.	OK	3.

Suggestions by Panel Members

Improvement Comments/Suggestions from Panel Members

Implementation Not complete, lack of conceptual knowledge about the project.

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Rajesh Kumar Ra	tp
Reviewer 2	Ramkesh Pathak	

Student Signature

HoD Signature

Follow Up Remarks by Internal Guide after Review 2

Complete implementation

Internal Guide Name & Signature:

Kunal Khimani

REVIEW CARD: VIVA

Team ID: 7CE_069	Team Size: 3	Project	Date: 30/8/25
Student Name	Dheeraj Matewana		
Enrollment No.	92201703215		
Class	EC2		
Internal Guide Name	Kunal Khimani		
Project Title	Student Training & Placement Portal		

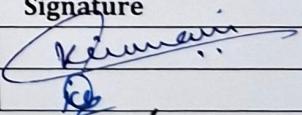
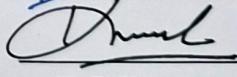
Performance Evaluation (Out of 30 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks (30 marks)
Introduction to Project, Individual/Team Roles & Responsibilities (5 Marks)	Partially justified	partially justified	3
Tools & Technologies learned (10 marks)	Worked on it	Explained	7
Project Implementation, Status of Completion, Status of Outcome 1) Research paper 2) POC 3) Start Up (Patent IDF draft is mandatory for all) (10 marks)	POC prepared	POC prepared	9
Presentation and Q&A (05 marks)	Good	Good.	4

Suggestions by Panel Members
Improvement Comments/Suggestions from Panel Members

Give final touch and release project.

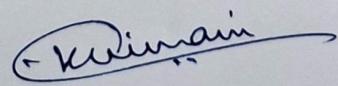
Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Kunal Khimani	
Reviewer 2	Kamlesh Pathak	

Student Signature
Remarks by Internal Guide

This project can be taken to next level.

Internal Guide Name & Signature:

Kunal Khimani 
HoD Signature



REVIEW CARD: VIVA

Team ID: TCE - 069	Team Size: 3	Project	Date: 30/08/2025
Student Name	Yed Bharat Kumar Barbhaya		
Enrollment No.	92310103100		
Class	TC 2		
Internal Guide Name	Kunal Khimani		
Project Title	Student training & placement portal		

Performance Evaluation (Out of 30 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks (30 marks)
Introduction to Project, Individual/Team Roles & Responsibilities (5 Marks)	Justified properly	Justified his role & Responsibility	04
Tools & Technologies learned (10 marks)	Worked on it	Explained	09
Project Implementation, Status of Completion, Status of Outcome 1) Research paper 2) POC 3) Start Up (Patent IDF draft is mandatory for all) (10 marks)	POC prepared	POC prepared	09
Presentation and Q&A (05 marks)	Good	Good	04

Suggestions by Panel Members

Improvement Comments/Suggestions from Panel Members

Give final touch and release the project

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	Kunal Khimani	
Reviewer 2	Kamlesh Patle	

Student Signature

HoD Signature

Remarks by Internal Guide

This project can be taken to next level

Internal Guide Name & Signature

Kunal Khimani

REVIEW CARD: VIVA

Team ID: <u>TCE-069</u>	Team Size: <u>3</u>	Project	Date: <u>30/08/2025</u>
Student Name	<u>Ghanashyam Vagh</u>		
Enrollment No.	<u>92200103280</u>		
Class	<u>TC4</u>		
Internal Guide Name	<u>Kunal Khimani</u>		
Project Title	<u>Student training & placement portal</u>		

Performance Evaluation (Out of 30 marks) (should be decided mutually by both reviewers)

Task	Reviewer 1 Evaluation Remarks	Reviewer 2 Evaluation Remarks	Assigned Marks (30 marks)
Introduction to Project, Individual/Team Roles & Responsibilities (5 Marks)	<u>Very less justified</u>	<u>partially justified</u>	<u>02</u>
Tools & Technologies learned (10 marks)	<u>Need to improve</u>	<u>Not explained</u>	<u>05</u>
Project Implementation, Status of Completion, Status of Outcome 1) Research paper 2) POC 3) Start Up (Patent IDF draft is mandatory for all) (10 marks)	<u>POC prepared</u>	<u>POC prepared</u>	<u>09</u>
Presentation and Q&A (05 marks)	<u>Need to improve</u>	<u>Good</u>	<u>03</u>

Suggestions by Panel Members
Improvement Comments/Suggestions from Panel Members

Give final touch and look to release the project.

Panel Members

Panel Members	Faculty Name	Signature
Reviewer 1	<u>Kunal Khimani</u>	<u>Khimani</u>
Reviewer 2	<u>Kamlesh Pathak</u>	<u>Pathak</u>

Student Signature
HoD Signature
Remarks by Internal Guide

This project can be taken to next level.

Internal Guide Name & Signature:
Khimani
Kunal Khimani



REVIEW CARD: Term Work: Regular Reporting & Project Report

Team ID: <u>7CE_069</u>	Team Size: <u>3</u>	Project <input checked="" type="checkbox"/> / Internship <input type="checkbox"/>	Date:
Student 1 Enrollment No.	<u>92201703215</u>		Student 1 Class: <u>7EC-2</u>
Student 1 Name	<u>Mukund Dhang</u>		
Student 2 Enrollment No.	<u>92310103100</u>		Student 2 Class: <u>7TC-2</u>
Student 2 Name	<u>VED BHARATKUMAR BABU NAIDU</u>		
Student 3 Enrollment No.	<u>92200203280</u>		Student 3 Class: <u>7TC-4</u>
Student 3 Name	<u>Ghanshyam Vaidya</u>		
Project/Internship Title	<u>Student Training and Placement Deptt.</u>		
Internal Guide Name	<u>Prof. Irmal Khimani</u>		
External Guide Name (If Internship)	<u>—</u>		
Internship Company (If Internship)	<u>—</u>		

Project Report Evaluation (Total 20 marks)

Tasks (10 Marks for each task)	Internal Guide Remarks	Assigned Marks (Total 20 marks) (common for all students)
Report Format as per Guidelines	<u>Yes</u>	<u>09</u>
Organization of Chapters, Description of Concepts, Tasks and Technical Details along with all necessary diagrams/charts /graphs, Citations of adequate references	<u>Yes</u>	<u>09</u>

Regular Reporting Performance Evaluation (Total 10 marks)

Tasks (05 Marks for each task)	Internal Guide Remarks	Assigned Marks (Total 10 marks) (individual student performance)		
		Student 1	Student 2	Student 3
Project/Internship: Reporting Regularity to Internal/External Guides	<u>Yes</u>	<u>4</u>	<u>4</u>	<u>4</u>
Project: Performance & Individual Contribution in Team Internship: Attendance History / Record (on official letter head duly stamped and signed by HR Team)	<u>Good</u>	<u>4</u>	<u>4</u>	<u>3</u>

Student 1 Signature: Dhang

Student 2 Signature: —

Student 3 Signature: —

Internal Guide Signature:

HoD Signature



Department of Computer Engineering Marwadi University

Academic Year: 2025-26

Semester: 7

Major Project-I (01CE0716)

Weekly Progress Report Diary (Project)

Team ID: 7CE_069.

Project Title: Student Training and Placement Portal

Sr. No.	Student Full Name	Student En. No.	Class
1	VED BHARAT KUMAR BARBHAYA	92310103100	7TC2
2	Dkouj mukwuna D.	92201703215	7EC-2
3	Ghanashyam Vagh	92206103280	7TC4

Internal Guide Name: Prof. Kunal Khimani



Weekly Project Progress Report Diary – June

Week	Project Activity by Students	Updates / Comments / Suggestions / Remarks by Faculty	Date & Time	Guide Signature
1	Project Abstract Initialisation .		4/6/25	
2	Discussion on existing apps		12/6/25	
3	Discuss on features that to be added in the app		19/6/25	
4	Requirement Analysis & Wireframing		25/6/25	



Weekly Project Report Diary – July

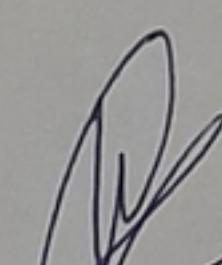
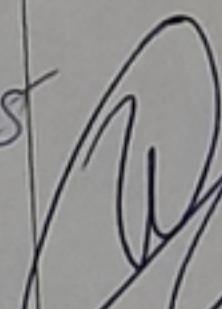
Week	Project Activity by Students	Updates / Comments / Suggestions / Remarks by Faculty	Date & Time	Guide Signature
1	Frontend Design Student Module		3/7/25	
2	Installed: and config. require. tools.		12/7/25	
3	Connected: Frontend. with backend API's for data entry.		17/7/25	
4	DB connect! API DB over MySQL		25/7/25	



Weekly Project Report Diary – August

Week	Project Activity by Students	Updates / Comments / Suggestions / Remarks by Faculty	Date & Time	Guide Signature
1	Report over Project is working very well or not		24/01/25	
2	Created CRUD operations.		21/01/25	
3	Add Validity: In front + end:		13/01/25	
4	Added entry feel very		22/01/25	

Weekly Project Report Diary – September

Week	Project Activity by Students	Updates / Comments / Suggestions / Remarks by Faculty	Date & Time	Guide Signature
1	Updation in frontend to make it attractive		26/8/25	
2	PPT & Final Report		29/8/25	
3	Project Completed		30/8/25	
4				



Consent for Filing Patent Publication Application

We, Prof. Kunal Khimani, Dhruv makwana (92201703192), Ved Barbhaya (92310103100), Vagh Ghanshyam (92200103280) hereby give our full consent and authorization for the filing of a patent/research publication application for the project titled **Student Training & Placement Portal**.

We hereby authorize Marwadi University and/or its legal representatives to file the patent/research publication application and act on our behalf regarding any matters related to this filing.

Date: 03/09/2025
Name: Prof. Kunal Khimani
Signature:

Date: 03/09/2025
Name: Dhruv makwana
Signature:

Date: 03/09/2025
Name: Vagh Ghanshyam
Signature:

Date: 03/09/2025
Name: Ved Barbhaya
Signature:



INVENTION DISCLOSURE FORM FOR PATENTS

Applicant Name-Marwadi University

- **Particulars of Inventors**

Mr.	Name (Full)	Department	Designation	Mobile No.	Email	Postal Address
Mr.	Dhruv makwana	Btech - CE	Student	7016890926	dhruv.makwana119628@marwadiuniversity.ac.in	Marwadi University, Rajkot, Gujarat 360003
Mr.	Ved Barbhaya	Btech - CE	Student	6352235117	ved.barbhaya123625@marwadiuniversity.ac.in	Marwadi University, Rajkot, Gujarat 360003
Mr.	Vagh Ghanshyam	Btech - CE	Student	7284828531	ghanshyambhai.vagh120042@marwadiuniversity.ac.in	Marwadi University, Rajkot, Gujarat 360003

- **Provide title of the invention:** AI-Enabled Student Training & Placement Management Portal with Centralized Recruiter Interaction and Data Analytics Dashboard
- **In 100 words or less, please provide an abstract or summary of the invention:** This invention is a web-based Training and Placement Portal designed to simplify the entire placement process for students, administrators, and recruiters. The system integrates role-based access, training module management, job/internship postings, and placement analytics into one centralized platform. It eliminates manual tracking by automating workflows like resume submissions, recruiter scheduling, and offer letter generation. Built using React, Tailwind CSS, Node.js, and Firebase, the solution ensures high scalability, real-time updates, and secure authentication. The inclusion of a chatbot and AI-powered analytics enhances user experience and data-driven decision-making, making the placement process efficient, transparent, and highly accessible.
- **Detail description of the invention:** (Answer to all below are required in detail)

Contact Details: Aayush Gupta, Email:mu@ennobleip.com, Phn- +91 92891 50390

Problem the invention is solving :

- Manual placement processes are time-consuming and prone to errors.
- Students lack a centralized platform to access jobs, internships, and training schedules.
- Recruiters and placement officers spend excessive time maintaining spreadsheets and emails.
- Communication gaps between recruiters, students, and administrators lead to inefficiencies.
- There's limited analytics to measure placement success and student skill readiness.

General Utility/application of the invention

- Acts as a centralized placement management hub for universities and training institutes.
- Facilitates real-time job postings, application tracking, and company interactions.
- Automates training schedules and sends notifications to students.
- Provides analytics dashboards for admin staff to make data-driven decisions.
- Integrates chatbot support for instant guidance to students.
- Scales for multiple institutions and recruiters.

Advantages of the invention disclosing about the increased efficiency/efficacy .

- Automation: Reduces manual paperwork, increasing operational efficiency.
- Real-Time Updates: Students and recruiters get instant notifications.
- Data Security: Uses Firebase authentication and cloud-hosted databases.

- Scalability: Capable of supporting thousands of students and recruiters.
- AI Features: Provides predictive analytics for placement trends.
- Mobile-Friendly: Fully responsive design works on all devices.

Best way of using the invention as well as possible variants

- Web Platform: Primary interface for students, recruiters, and admins.
- Mobile Version: Simplified app for quick job applications and notifications.

Working of invention along with Drawing, schematics and flow diagrams if required with complete explanations.

1. Authentication & Role-Based Access: Students, recruiters, and admins log in securely using Firebase Auth.
2. Student Dashboard: Students view training schedules, jobs, and placement status.
3. Admin Dashboard: Admins manage company postings, verify student details, and track placement stats.
4. Recruiter Portal: Recruiters post jobs, view student applications, and schedule interviews.
5. Chatbot: AI-powered chatbot helps students with FAQs and navigation.

S. No.	Existing state of art	Drawbacks in existing state of art	Overcome (how your invention is overcoming the drawback)
1	Manual placement systems using spreadsheets	Time-consuming, prone to errors	Automated workflows & central dashboard
2	Third-party job portals	Generic, lack of institute-specific data	Customizable for each university

- **List the Technical features and Elements of the invention along with the Description of your invention from start to end.**
 - a. Frontend: React + Vite + Tailwind CSS (for responsive UI).
 - b. Backend: Node.js + Express (for APIs).
 - c. Database: Firebase Firestore (real-time data sync).
 - d. Authentication: Firebase Auth (email/password, OAuth).
 - e. Modules: Training, Jobs, Placement Stats, Chatbot, Role-based Access

Novelty (New Features Over Existing Technology):

- Single centralized system combining training, placements, recruiter management, and analytics.
- Integrated chatbot for student support.
- Real-time notifications and interview scheduling.
- AI-driven recommendations for students and recruiters.

Development Status:

- Built & Tested: Fully functional prototype with stable performance in multiple test cases.
- Performance: <2s page load time, stable under concurrent access.

Disclosure & IP Notes:

No public disclosure or sale yet; only shared among team members and university faculty.

No NDA signed yet (can be done at the filing stage).