

Software Requirements Specification (SRS) Document

Project Title: Training and Placement Management / ERP System

1. Introduction

1.1 Purpose This document specifies the software requirements for the development of a comprehensive Training and Placement ERP system aimed at automating and streamlining campus placement processes for educational institutions.

1.2 Intended Audience

- Developers
- Project Managers
- Stakeholders (Admin, Co-ordinators, Students, Recruiters)
- QA/Testers

1.3 Scope The system will serve as a central platform with multiple user roles to manage student profiles, training schedules, placement activities, and communication between students and college placement staff.

1.4 Definitions and Acronyms

- ERP: Enterprise Resource Planning
- LOR: Letter of Recommendation
- PLI: Pre-Placement Interview

2. Overall Description

2.1 Product Perspective The ERP system will be a web-based application with role-based access to features for Admins, Students, Co-Ordinators, and optionally Recruiters.

2.2 User Classes and Characteristics

- **Admin:** Full control of the application, user management, system settings.
- **Co-Ordinator:** Manages training content, student data, placement activities.
- **Student:** Manages own profile, job applications, resumes, requests LORs.

- **Recruiter (Optional):** Access to student resumes, interview scheduling.

2.3 Operating Environment

- Web browser-based interface
- Hosted on institutional server or cloud
- Responsive across devices (PCs, tablets, smartphones)

2.4 Design and Implementation Constraints

- Secure login and data encryption
- Scalable to handle large student data
- Integration with institutional email system for notifications

3. System Features

3.1 Authentication & User Management

- Self-registration and admin-based account creation for students and co-ordinators
- Default email as username, password change on first login
- Role-based access control

3.2 Student Module

Profile Management:

- Personal, academic, and resume-like data fields
- Upload resume (PDF, multiple versions)
- Projects (with GitHub and Live Demo links)
- Skills and Certifications (with links)
- Interest Tags/Domains

Letter of Recommendation (LOR):

- Form with: purpose, target, date required, remarks
- Track request status: Pending/Approved/Rejected

Dashboard:

- Overview of upcoming interviews, events, test results, LOR status
- Calendar view

Job Application:

- View eligible jobs by category (CAT 1, 2, 3)
- Apply to job roles within eligibility

Notifications & Alerts:

- For interviews, training, deadlines, test results
- Auto-sync with calendar

3.3 Co-Ordinator Module**Training Material Management:**

- Upload/manage videos, PDFs, slides
- Monitor student engagement

Mock Tests & Attendance:

- Upload results and attendance records

Activity Scheduling:

- Schedule events added to calendar with alerts

Placement Management:

- Post company info: role, description, eligibility
- Track student registration per company
- Schedule interviews
- Post results (Aptitude, DSA, Interview)

Announcements & Notices:

- Global or category-based visibility

Student Feedback Handling:

- Query system for students to post and receive responses

3.4 Admin Module**User and System Management:**

- Create/edit/delete users
- Password resets
- Enable recruiter access
- Upload bulk student lists (auto-create accounts)

Feature Customization:

- Add new fields/features
- Mandatory categorization (Placement, Placement + PLI, Higher Studies)

Monitoring & Audit:

- Logs for all roles
- Analytics on placements, test scores, applications

3.5 Recruiter Module (Optional)

- Limited access to view student profiles
- Resume and project link access
- Interview scheduling
- Post job roles directly
- Download applicant lists

3.6 Calendar & Notification System

- Auto-alerts for all user roles
- Calendar integration for schedules and deadlines

4. Non-Functional Requirements

4.1 Performance Requirements

- System must support concurrent logins
- Load time < 3 seconds for most pages

4.2 Security Requirements

- Role-based access
- Encrypted passwords
- Secure data transmission

4.3 Usability Requirements

- User-friendly dashboards
- Mobile responsiveness

4.4 Maintainability and Scalability

- Modular architecture for easy updates
- Scalable DB design for increasing users/data