Placement and Alumni Management System - Project Overview

Objective

To build a centralized system for managing placements, alumni records, training, and job-related activities for students, faculty, and recruiters.

Key Modules & Roles

1. Admin Module - Controls all operations, manages users, drives, reports.

2. Student Module - Register, view/apply for jobs, attend training/webinars.

3. Alumni Module - Update profile, share jobs.

4. Company Module - Post jobs, view eligible students.

5. Faculty Module - Guide students, approve resumes.

6. HOD Module - Department-level stats, approve drives, manage faculty.

7. Principal Module - View college-wide stats, approve events.

8. CGPA-Based Filtering Module

9. Online Job Training Module - Host video courses, quiz.

10. Job Search with Location - Filter jobs by city, type, company.

11. Webinar - Schedule webinars

12. OCR Technique Integration - Automate the extraction of text/data from scanned documents such as resumes, mark sheets, certificates.

13. Academic Database for 3-Year Pass-out & Current-Year Students - Store academic and placement-relevant information

14. Reports & Analytics Module

Admin Module

- Create, update, and delete user accounts (students, alumni, staff).
- Assign roles (student, alumni, placement officer).
- Approve alumni registrations.
- Maintain and update job postings.
- Manage placement events and company visit schedules.
- Monitor system logs and security.
- Handle technical settings (backup, database updates).

Student Module

- Register and maintain personal profile
- Apply for jobs and attend placement drives
- View training courses, webinars.
- Upload resumes/mark sheets.

Alumni Module

- Update employment details and share job opportunities
- Attend webinars and training sessions

Company (Recruiter) Module

- Post job openings and internships
- View eligible students based on CGPA/skills
- Track student applications

Faculty Module – Key Features:

- View and guide students in their department
- Recommend students for specific job roles
- View upcoming placement drives

👨‍🎓 HOD Module – Key Features:

- Department-wise placement overview dashboard
- View all faculty and student details
- Schedule mock interviews or resume workshops

🧑‍🏫 Principal Module – Key Features:

- View placement statistics (number of placed students, companies visited, alumni engagement).
- Monitor activity of placement officers and admins.
- Approve important announcements or events.

🧠 Access Hierarchy (Top-Down):

1. **Principal** – Full view access + institutional-level control
2. **HOD** – Department-level control and coordination
3. **Faculty** – Individual student-level guidance
4. **Admin** – Manages system operations and technical maintenance
5. **Company** – External recruiter access
6. **Alumni / Student** – Limited role-based access to respective features

CGPA-Based Filtering Module

- Filter eligible students based on minimum CGPA criteria set by companies.

- Admin and companies can define cut-off CGPA for each job post.

- Automatically display only eligible candidates to recruiters.

- Students can view jobs they are eligible for based on their CGPA.

Online Job Training

- Training on aptitude, coding, soft skills.

- Video tutorials, quiz-based progress.

- Admin uploads content; students access via dashboard.

Job Search with Location Filter

- Filter jobs by location, type, and company.

- Save/bookmark jobs.

- Helps target region-specific opportunities.

Free Webinar Module

- Schedule & host webinars (Zoom/Meet).

- Attendance tracking.

OCR Integration Module

- Automatically extracts data from scanned documents (e.g., mark sheets, resumes)
- Reduces manual entry for students and alumni
- Ensures data consistency across modules

Academic Database Module

- Stores academic details of current and 3-year pass-out students
- Tracks CGPA
- Enables CGPA-based filtering for job matching

Reports & Analytics Module

- Generate filtered reports of placements students and send to hod ,faculty, principle.
- Export graphs, charts, or data tables
- Department-wise, year-wise, or CGPA-based filters

Module	User Role	Responsibilities / Priorities
Admin Module	Admin	Manage all data, users, placement drives, approvals, reports
Student Module	Student	Register for drives, view job listings, update resume, view placement status
Alumni Module	Alumni	Update employment info, share opportunities, view events.

Company Module	Recruiter/HR	Post job openings, view student profiles.
Faculty Module	Faculty Advisor	Guide students, track individual student progress, approve resumes, forward profiles to HOD/Admin
HOD Module	Head of Department	Monitor department-wise placement stats, approve company proposals, oversee faculty actions
Principal Module	Principal	Monitor college-wide reports, authorize special drives/events.
Reports Module	All (Read access varies)	Generate custom reports based on role (e.g., HOD gets dept-wise, Principal gets college-wise)