

PROJECT ABSTRACT

Campus Placement Drive Management Portal

A campus placement portal: TPOs publish drives with CTC breakups and eligibility rules, students apply with auto-checked eligibility, and applications move through selection rounds. Delivered built-to-order with source, schema, seeded drives, report, PPT and viva kit.

Title

Campus Placement Drive Management Portal — replacing notice-board PDFs and Google Forms with structured drives, rule-based eligibility and a visible round pipeline per application.

Introduction / Background

Placement season runs on notice-board PDFs, Google Forms and a flood of WhatsApp forwards: students miss deadlines, apply to drives they are not eligible for, and nobody knows which round they are stuck in. The TPO cannot see at a glance how many eligible students each drive has. This project replaces that chaos with a single portal. Drives carry structured data — role, CTC breakup, eligibility rules, rounds, deadline — instead of a PDF. Applying is one tap, but the tap is gated: the portal checks the student's verified profile (CGPA, branch, backlogs, batch) against the drive's criteria before accepting. Each application then travels a round pipeline with its position always visible.

Problem Statement

Unstructured drive announcements cause missed deadlines and ineligible applications, while opaque selection processes leave students guessing. The project structures the drive as data, enforces eligibility as rules, and exposes the round pipeline as state — all three visible to both sides.

Objectives

- Let TPOs publish drives with role, CTC breakup, eligibility criteria, rounds and deadline.
- Auto-check eligibility (CGPA, branch, backlogs, batch) against verified student profiles.
- Enable one-tap apply with resume and marksheets attached automatically.
- Track applications through configurable selection rounds (aptitude → coding → technical → HR).
- Surface deadlines with closing-soon badges and automatic server-side closure.
- Show offers with CTC and acceptance countdowns on the student dashboard.

Proposed Methodology

Eligibility is a rule engine: each drive stores predicates over CGPA, branch set, backlog policy and batch; application attempts evaluate every predicate and report the specific failing rule. Rounds are a per-drive ordered list; each application carries its current round index, advancing only on recorded clearance. Deadlines are enforced server-side — the apply action is rejected after close regardless of what the UI shows.

System Architecture / Working

Two roles: TPO admin (publish drives, verify profiles, record round results) and student (browse with live eligibility badges, apply, track pipeline, manage offers). The demo seeds 14

drives and 40+ applications across every pipeline state.

Hardware / Software Requirements

Any modern desktop or mobile browser (Chrome, Edge, Firefox, Safari). Server side: PHP 8.x with MySQL 5.7+ on shared or VPS hosting; the demo runs fully client-side from a single HTML file for screenshots and UI review.

Expected Outcomes

- A working portal covering drive publishing, gated applications and round tracking.
- Eligibility rule engine and round state machine with documented behaviour.
- Project report with eligibility design, state machine, ER diagram and test cases.
- PPT presentation and viva Q&A; (eligibility rules, round transitions, role-based access).

Applications

College Training & Placement cells; the eligibility-engine pattern adapts to scholarship portals and any gated-application workflow.

Future Scope

Email/SMS shortlist notifications, TPO analytics (branch-wise placement stats), multi-college pool drives, and resume parsing.