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Elevate Path System

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ABSTRACT:

The ElevatePath Web Portal is a dynamic web-based solution designed to streamline and enhance the training and recruitment processes within educational institutions. This project aims to bridge the gap between students, training coordinators, and recruiters by providing an integrated platform for managing student data, tracking training progress, and facilitating placement activities. The effectiveness of the program is evaluated through placement success rates, participant feedback, and employer satisfaction.

The portal ensures efficient data handling, improves communication between stakeholders, and reduces the administrative workload associated with traditional placement procedures. The end goal is to provide a user-friendly and automated system that supports students in their career development and helps institutions maintain a structured and transparent placement process.

Keywords— Dynamic web based solution, Integrated platform, Students registration module, Stakeholders, Automated system, Transparent placement process.

INTRODUCTION

Campus recruitment has evolved from bulletin-board notices and spreadsheet tracking to sophisticated, data-driven ecosystems. Yet many colleges and universities—especially those in rapidly growing regions—still rely on ad-hoc emails, siloed databases, and manual eligibility checks to manage internships, skill-development workshops, and final-year placements. A ElevatePath Web Portal addresses this gap by consolidating every stakeholder—students, training coordinators, faculty mentors, and corporate recruiters—onto a single, interactive platform. By replacing fragmented, paper-heavy procedures with an end-to-end digital workflow, the ElevatePath Portal not only reduces administrative overhead but also elevates student employability. Coordinators gain actionable insights into training outcomes; recruiters enjoy faster, data-rich talent discovery; and students experience a transparent, self-service journey from skills acquisition to successful placement. An opt-in module connects current students with alumni for referrals, mock interviews, and webinars, converting the alumni base into an active talent multiplier. In addition, the portal transforms the T & P cell from a reactive service desk into a proactive, insight-driven nerve centre.

LITERATURE REVIEW

- Campus placement information is typically scattered across spreadsheets, email threads, and disparate student-information systems, producing duplicate or outdated records. Without a centralized, real-time database of students, companies, and drive schedules, coordinators struggle to maintain data integrity and recruiters receive inconsistent short-lists. [1]
- Most institutions still filter candidates by hand—checking CGPA, backlogs, or branch eligibility against recruiter criteria. This labour-intensive process is slow, prone to human error, and scales poorly once cohort size exceeds a few hundred students, often resulting in ineligible candidates reaching interview panels or eligible ones being missed. [2]
- Existing portals, where present, focus on CRUD operations (create, read, update, delete) but seldom offer dashboards that track placement ratios, skill-gap trends, or recruiter return-visit rates. The absence of predictive analytics or AI-driven insights hampers proactive interventions such as targeted upskilling or recruiter engagement strategies. [3]
- Legacy web apps suffer from dated interfaces, non-responsive layouts, and role confusion. Students cannot easily update résumés or track application status; recruiters face cumbersome job-posting forms; and T&P officers juggle multiple log-ins. Lack of WCAG-compliant design and multilingual support further alienates users with accessibility needs or regional-language preferences. [4]

- T&P data rarely syncs with learning-management systems (LMS), enterprise resource-planning suites (ERP), or external HRIS platforms, leading to repetitive data entry and broken audit trails. Moreover, consent management and data-privacy controls mandated by regulations such as India's DPDP Act 2023 or GDPR are either bolted on as afterthoughts or missing entirely. [5]

METHODOLOGY

Problem Definition

Managing student training records and placement processes manually is highly inefficient and error-prone. There are challenges in maintaining up-to-date student data, coordinating with companies, scheduling placement drives, and managing training sessions. Without an automated system, communication gaps occur between students, training and placement officers, and recruiters. Thus, there is a need for a web-based Training and Placement System that can handle these activities smoothly and efficiently.

Purpose:

The purpose of the ElevatePath System is to automate the training and placement activities of an educational institution. This system will serve as a platform where students can register and apply for placement drives, admins can manage records and companies, and recruiters can access student profiles easily. It aims to provide real-time updates, enhance coordination between students and companies, and improve the overall efficiency of the placement process.

Scope:

The ElevatePath System will continue to grow and evolve over time as new features are added. It is designed to expand its functionality to address a wider range of challenges faced by students, companies, and administrators. Future enhancements may include intelligent eligibility prediction for placement drives, automated resume evaluation, and integration with external job portals to increase opportunities for students.

Proposed Solution:

The proposed ElevatePath System will be built on a large, diverse, and up-to-date dataset of student profiles, company requirements, and placement records. This dataset will be carefully curated to ensure accuracy and reliability. Advanced machine learning algorithms, such as collaborative filtering, deep learning, and natural language processing, will be integrated to provide personalized recommendations for job opportunities, training programs, and skill development pathways based on an individual student's academic background, skills, and career interests.

Benefits:

The ElevatePath System offers numerous benefits to both students and administrators. By automating key processes such as student registration, resume management, company interaction, and placement drive scheduling, the system significantly reduces manual effort and administrative workload. Centralized data storage ensures that all records related to students, companies, and trainings are easily accessible and well-organized. The system improves communication by providing real-time notifications and updates, minimizing the risk of missing important announcements. Automated data handling enhances accuracy by eliminating human errors in eligibility checks and report generation. Transparency is improved as students can track their applications, training registrations, and placement results independently.

Software requirement:

1. Frontend Technologies

- HTML5: For structuring the web pages.
- CSS3: For designing and styling the user interface.
- JavaScript: For client-side validation, dynamic content handling, and interactivity.
- Bootstrap (optional): For responsive and mobile-friendly design.

2. Backend Technologies

- PHP 7.x or higher: For server-side scripting, handling logic, and database operations.
- Apache Web Server: To host and run the PHP application locally or on the internet.

3. Database

- MySQL 5.7 or higher: For storing student details, company data, training sessions, placement drives, & login credentials.
- phpMyAdmin: To manage the database easily (optional but helpful for development).

4. Development Tools

- XAMPP / WAMP / LAMP Stack:
- XAMPP (for Windows/Linux/Mac) or
- WAMP (for Windows) or

- LAMP (for Linux).
- Code Editor/IDE:
- Visual Studio Code (preferred),
- PHPStorm (optional, paid).
- Browser:
- Google Chrome (recommended for testing),
- Mozilla Firefox, or any modern browser.

Hardware requirement:

Client-Side (User's Device)

- Processor: Minimum Intel i3 or equivalent.
- RAM: Minimum 4 GB (8 GB recommended).
- Storage: Minimum 20 GB free space.
- Display: 1024x768 resolution or higher.
- Network: Broadband internet connection (minimum 5 Mbps).

Server-Side (Hosting Server)

- Processor: Minimum Quad-core processor.
- RAM: Minimum 8 GB (16 GB recommended for larger scale).
- Storage: Minimum 100 GB free space (1 TB recommended for backup and expansion).
- Network: High-speed internet (1 Gbps or better).

h. Data Flow Diagram:

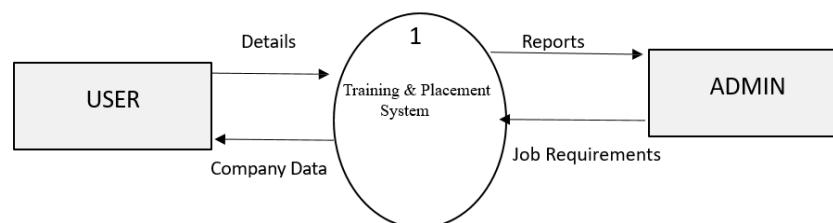


Fig 1. ContextLevelDFD(0Level)

RESULT

The developed ElevatePath Management System successfully meets the objective of automating and simplifying the placement process in educational institutions. Students can easily register, update their academic and personal information, view available training programs, and apply for relevant placement drives through an interactive web portal. Companies can register and post job openings, view student profiles, and shortlist eligible candidates. The system ensures secure access through role-based authentication, allowing separate functionalities for students, administrators, and companies. It also features a notification mechanism that keeps students informed about training sessions, placement opportunities, and results.

The admin has complete control over managing student records, company registrations, scheduling training programs, and organizing placement drives. Additionally, the system can generate important reports such as placement statistics, training attendance, and company participation summaries. By providing a centralized platform accessible from anywhere, the system reduces administrative workload, minimizes manual errors, and accelerates the overall training and placement process. The project demonstrates that an automated approach significantly improves transparency, efficiency, and user experience compared to traditional manual methods. The developed Training and Placement Management System successfully meets the objective of automating and simplifying the placement process in educational institutions. Students can easily register, update their academic and personal information, view available training programs, and apply for relevant placement drives through an interactive web portal. Companies can register and post job openings, view student profiles, and shortlist eligible candidates. The system ensures secure access through role-based authentication, allowing separate functionalities for students, administrators, and companies. It also features a notification mechanism that keeps students informed about training sessions, placement opportunities, and results.

DISCUSSION

A ElevatePath System serves as a bridge between educational institutions and the job market by equipping students with the necessary skills and connecting them to potential employers. The system focuses on skill development by offering industry-relevant training modules that cover technical

skills, soft skills, and practical knowledge, ensuring that students are well-prepared for the workforce. It includes features like a centralized student database, job listings, resume builders, and placement analytics, making it easier for students to find employment opportunities. Through recruitment drives and interview scheduling, the system facilitates the placement process, helping students secure jobs that match their qualifications and interests. Additionally, the system may offer career counseling, mock interviews, and certification programs to enhance students' job readiness. The ultimate goal is to streamline the process of skill acquisition and job placement, ensuring that students are well-equipped to meet the demands of the job market while also providing companies with a pool of trained and qualified candidates.

CONCLUSION

In conclusion, a ElevatePath System is essential in connecting the educational sector with the job market, providing students with the skills and opportunities necessary for career success. By offering industry-aligned training modules, resume building tools, and mock interviews, it equips students with both technical and soft skills that make them job-ready. The system also acts as a bridge to employment by enabling students to access job listings, recruitment drives, and placement events, thus increasing their chances of securing relevant roles in their field of interest.

Moreover, the system benefits educational institutions by ensuring that their curricula are aligned with the needs of the industry, ultimately improving the employability of their graduates. It fosters collaboration between academia and industry, creating a seamless pathway from learning to working. For employers, the system streamlines the recruitment process by providing easy access to a pool of qualified candidates, saving time and resources. Overall, a well-designed Training and Placement System enhances career prospects for students while benefiting institutions and employers alike.

REFERENCES:

1. Institute's Course Material or Notes: Refer to any specific textbooks, lecture slides, or notes provided by your instructor that explain the theory behind the training and placement system.
2. Research Papers and Books on System Design: You may want to refer to books or journals on system design, software development, and education systems, if available through your institute's library.