A COMPREHENSIVE WEB PLATFORM
FORT&P SERVICES

Dr. Sivalakshmi. B [1], Nazma Firdosh [2], CH. Sravani [3], CH.V.S. Meghana [4], B. Bhavana [5.] 1 Associate Professor, Head of The Department (HOD), 2 B. Tech IV, 3 B. Tech IV, 4 B. Tech IV, 5 B. Tech IV. 12345 Information Technology, 12345 Vignan's Institute of Engineering for Women (VIEW), Visakhapatnam, Andhra Pradesh. bslakshmi85@gmail.com1, nazmaabi192005@gmail.com2, cheepurapallisravani@gmail.com3, meghanachitikela02@gmail.com4, bhavanabera38@gmail.com5.

ABSTRACT: The establishment of a "Training & Placement Web Portal" is a significant breakthrough in addressing obstacles faced by placement cells and students in attaining prosperous work placements. Through the automation of manual processes using technologies including Frontend – HTML-5, CSS, JavaScript, Backend - PHP, and Database - MySQL this system optimizes placement management operations. Notable elements that improve user experience and encourage smooth communication and informed decision-making for staff and students alike include centralized student data storage, timely alerts, and one-time registration. Companies can use the technology to directly log in and publicize their recruitment and selection processes on the website.

KEYWORDS: XAMPP server, VS Code, PhpMyAdmin, Apache, MySQL, Admin Module, Student Module, TPO Module.

I. INTRODUCTION:

Internet users now use Online PLACEMENT CELL as a means of communication in today's fast-paced, smart, and modern environment. On the one hand, it's affordable, practical, and informative as well. The goal of ONLINE PLACEMENT CELL was to create online communities of individuals with similar interests. PLACEMENT CELL include common elements of alerting top jobs, person-to-company connection and production of shared. Educational institutions are implementing extensive web platforms for integrated training and placement in the highly competitive job market of today. These platforms act as focal points for communication between instructors, and students. While educational institutions monitor students' progress and work with businesses, students utilize tools, maintain their profiles, and apply for jobs. Recruiting procedures that are expedited are advantageous to employers. All things considered, these platforms mark a change in the way people are prepared for the workforce by using technology to empower people and support the world economy. Using information from research and case studies, this study examines important aspects, advantages, and difficulties.

Problem definition: An online application for placement at the college department is being developed under the PLACEMENT INFORMATION MANAGEMENT SYSTEM project. This project is mainly used by five users. They are Admin, Placement Officer, HOD, Hiring Organization and Students. The primary users of this system are the T&P Officer (TPO) of the college to oversee the student data in relation to placement cell. Students logging should be able to update their information in Curriculum Vitae (CV). Placement Officer after logging in can access/search any information put up by Students. Placement Officer send notification to all the students who are qualified, and a business profile is also created available to the students. On the day that is mutually agreed upon, the company comes to the college and conducts Aptitude/ Group Discussion/ Seminar/ Technical test/ Personal Interview as a part of their preferred selection procedure. After the campus selection process is finished, the company is supposed to provide the final list of selected pupils that same day. Subsequently, TPO updates the students who were accepted and rejected, making them visible to them. According to the college's recruitment policy, a student who is chosen for a position in a company will not be able to attend interviews with other companies.

II. EXISTING SYSTEM

The current system is automated, however it is a time-consuming procedure that is maintained at separate databases, or in Excel sheets. They must sift through every record in order to find the one they desire. It does not have distinct user privileges or multiple user accessibility. Therefore, not every employee of the company has access to the system. Identifying and submitting the best applicants for the position registered to the organization are challenging tasks.

Through this method, the student can access their personal information. Since they are unable to alter the information, they should contact the placement officer if any corrections need to be made. Because the current system requires more time to complete each task, an online system placement information system has been put in place.

III. PROPOSED SYSTEM

Web Platform for Integrated Training and Placement: Whenever the company starts visiting the college the workload of the T&P cell increases as all the work is done through excel sheets thus increasing the chances of errors and making it more difficult in storing the dataproperly. The proposed system computerized the whole system and makes the tedious work of the training& placement cell smooth. Broadly the wholesystem is classified as

   a. **User Registration and Profiles:** Users can create accounts with detailed profiles, including academic and professional information. Different roles for students, trainers, and recruiters withcustomized dashboards.

   b. **Skill Assessment:** Regular assessments to gauge user skills and track progress.AI-driven adaptive assessments for personalized learning paths.

   c. **Resume Builder:** Tools to create professional resumes with templates and guidance. Integration with LinkedIn for easy profile import.

   d. **Placement Assistance:** Notifications for upcoming interviews and recruitment events.

   e. **Dashboard**: Visual representation of user progress, job placement rates and number of placements. Insights to refine resume by guidanceof faculty.

   f. **Security Measures:** Encryption ofuser data and secure information gateways for sensitive information. Regular update features to ensure data integrity and data accuracy.

   g. **Mobile Accessibility:** Mobile-friendly design for on-the-go access to information about upcoming drives and job opportunities.

h. **Feedback and Improvement:** Continuous improvement based on faculty feedback and industry requirements.

   This comprehensive web platform aims to bridge the gap between education and employment by providing a seamless experience for users to enhance their skills, and build their resume and secure job opportunities. The comprehensive web platform for integrated training and placement use a combination of front-end and back-end technologies. Frontend technologies could include HTML, CSS, and JavaScript. For the back-end, technologies like PHP. Database management involve MySQL. Security measures may involve HTTPS, encryption, and authentication protocols.

Front-end: HTML/ CSS/ JavaScript: Fundamental technologies for structuring, styling, and adding interactivity to web page. Back-end: PHP is a versatile and widely-used programming language chosen for backend development due to its readability and extensive features. Database: MySQL is an open-source relational database management system (RDBMS) known for its reliability, performance, and ease of use. Developed by Oracle Corporation, MySQL is widely adopted for web applications and varioussoftware projects. It supports SQL, making it easy to interact with databases through standard queries. With features like ACID compliance, transactions, and support for various storage engines, MySQL is suitable for a range of applications, from small-scale projects to large enterprises. Its community edition is freely available.
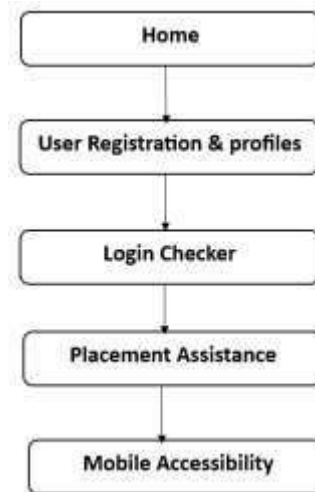

Fig 1: Architecture of proposed system

IV.METHODOLOGY

1. **Admin Module:** The admin module in a training and placement project acts as the central hub for managing all aspects of the program. Here's a breakdown of the methodology for this crucial component:

    User Management:

    • **Account Creation:** Define user roles (admin, faculty trainer, company HR) and establish a secure registration process for creating accounts.

    • **User Management Dashboard:** Provide a dashboard for admins to view, edit, and deactivate user accounts as needed.

Student Enrolment Management: Allow students to register for training programs and track their enrolment status.
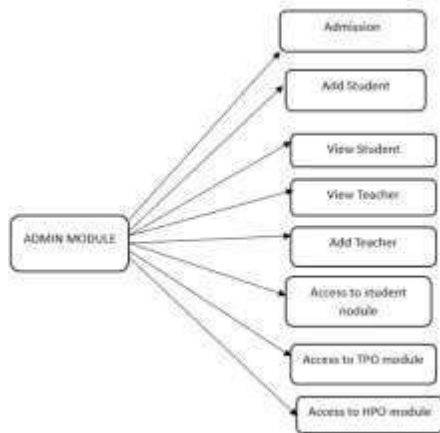

Fig 2: Flow diagram of Admin Module

2.   **Student Module:**

Student Profile Search: Provide companies with search tools to filter and access student profiles based on specific criteria like:

▪ Academic qualifications (degree, major, specialization)

▪ Skills and experience (technical skills, soft skills, relevant projects)

▪ Internship experience (if applicable)

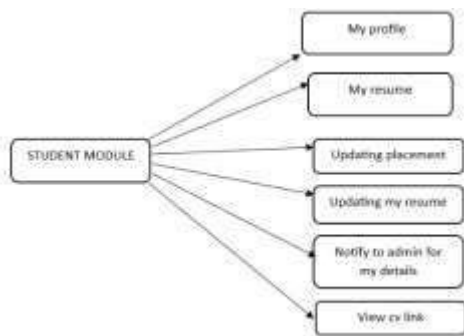▪ Other relevant filters (e.g., GPA, extracurricular activities)

Fig 2.1: Flow diagram of Student Module

3.   **TPO Module:**

Resume/Application Management:

Allow companies to view submitted student resumes and applications.

Enable features for:

▪ Downloading resumes in various formats (PDF, Word)

▪ Shortlisting and filtering applicants based on pre-defined criteria

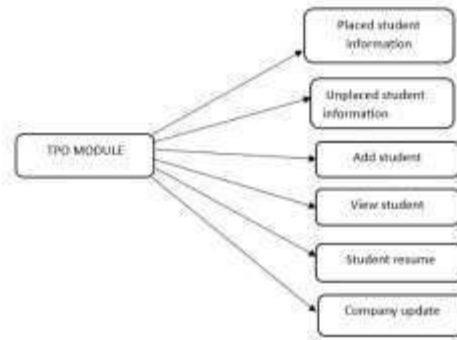▪ Marking applications as "read" or "not interested"

Fig 2.2: Flow diagram of TPO Module

V. SYSTEM DESIGN

Installing XAMPP:
MariaDB, PHP, and Perl are all included in the simple-to-install Apache distribution called XAMPP. Simply download the installer and launch it.

Fig 3: XAMPP different versions for download

Fig 3.1: Connecting Apache and MySQL to port numbers

Fig 3.2: Successfully connected to servers

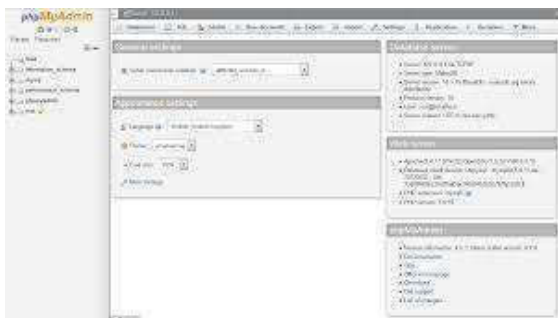**Fig 3.3: By clicking phpMyAdmin we can open our database**

Fig 3.4: Opening our database interface in phpMyAdmin

VI. ALGORITHM AND FLOWCHART

Algorithm:

Step-1: Start

Step-2: Home page appears

Here in this Home page, we can see logo of our college and all departments information about placements. Where this information can be seen from outsiders also.

Step-3: Selection of Department

After selecting a department of our choice, we can view the placements in that department which are accessible for any user.

Step-4: Click on login button on Home page

After clicking on login button, we will get different modules like admin, student, TPO, HOD, Hiring Organization module.

Step-5: Click on preferred portal

When the system loads, a page with a login form appears.

Step-6: Enter user credentials

The system verifies if the user's credentials match, and if they do, it directs the user to the appropriate Admin / TPO / Hiring Organization / HOD / Student Home Page.

Setp-7: Display of Admin / TPO / Hiring Organization / HOD / Student Home Page

- At this decision point, the system checks whether the login credentials matches which portal.
- The user can examine details of placed and not placed students if the credentials match Training and Placement.
- The user can access student resumes if the credentials match Hiring organization .
- The user can examine details of students who have been placed and those who are not placed if the credentials match the HOD.
- If the user's credentials match the student, they can examine the student's data, upload their resume, and view them.If not, return to Step 6 for further adjustments.

Step-8: End of Process

The flowchart concludes with the successful completion of uploading and examining of placement details
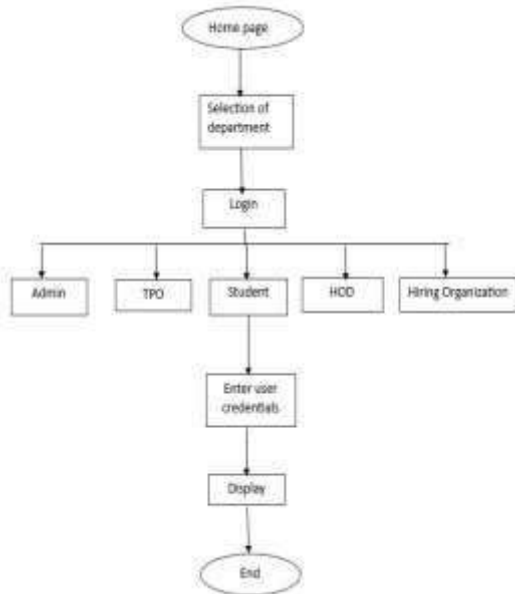
Step-9: Stop

Fig 4: Flowchart from Homepage

VII. RESULT:

Fig 5: Home Page

Fig 5.1: Landing page of Login for multiple portals
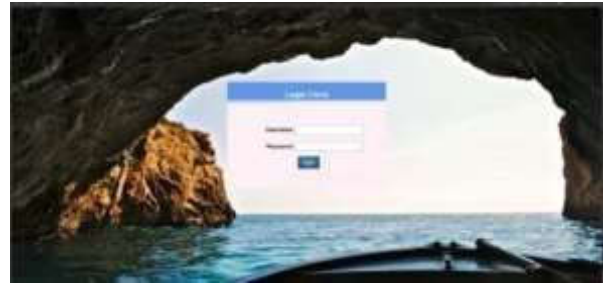

Fig 5.2: Login Page

Fig 5.3: View teacher in Admin Dashboard

Fig 5.4: View placed students

VIII. CONCLUSION

The creation of a "Training & Placement Portal" method is a noteworthy progression in tackling the obstacles faced by students and placement cells in attaining prosperous work placements. the system streamlines placement management operations and increases efficiency by successfully automating manual processes through the use of technologies including frontend java Script, HTML, CSS backend PHP, and MySQL database. For staff and students alike, features like consolidated student data storage, timely warnings, and one-time registration significantly enhance the user experience, promoting easy communication and well-informed decision making. future improvements and alterations are made possible by the system's modular architecture, which guarantees scalability and adaptability. all things considered, the deployment of this system is a major step in the right direction toward improving the outcomes of job placement in the highly competitive industries of it and engineering.

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