INTERNSHIP MANAGEMENT PORTAL

S R Patil,[1] K Saiveena[2], Sakshi Somani[3], Soujanya I Pavate[4]

Department of Information Science and Engineering, Basaveshwar Engineering College (Autonomous), Bagalkot-587103, Karnataka, India

Abstract -- The increasing demand for streamlined and effective procedures in the administration of internships is met by an internship management portal. A single platform that facilitates the complete internship lifecycle is necessary in today's dynamic work climate for firms offering internships , students looking for an internship, as well universities can use it.

This new interface shall enable the students to apply for internship. To use this system, the students should have registered with the database. Each student shall have a login id and password. The admin shall have the rights to create and manage these users from the back end. When the students log in to the system, a grid view shall be displayed which displays all the open job positions. It also gives the details about the start and end date. It gives a brief description about the job. Using the apply button the student shall be able to apply for the job. University can post multiple internship openings for students and they can apply for those online only which will make it very easy for students to apply for internships. It will be very simple and easy to use system for internship programs

Keywords-**Internship management,internship,job,recruitment**

I. INTRODUCTION

The motivation behind the development of the Internship Management System arises from the need to enhance and streamline the processes associated with internship programs. Traditional internship management systems often face challenges in providing a user-friendly experience, efficient communication channels, and comprehensive functionalities for students, employees, and cohort owners. This project seeks to address these issues by creating a full-stack web application that revolutionizes the way internships are managed, making the experience more interactive, collaborative, and efficient for all stakeholders.The primary objectives of the Internship Management System project include: User-Friendly Interface : Develop a user centric design that ensures accessibility and ease of use for students, employees, and cohort owners. Distinct Login Portals : Implement separate and personalized login portals for students, employees, and cohort owners, each catering to the specific needs of their roles. Enhanced Functionality : Introduce features such as real-time communication tools, task management, document submission, and progress tracking to enhance overall functionality and user engagement.

The scope of the project encompasses the development of a comprehensive full-stack web application that covers the entire lifecycle of internships. Onboarding and Authentication : User registration and authentication processes for students, employees, and cohort owners. Role-Specific Portals : Separate login portals with functionalities tailored to the roles of students, employees, and cohort owners. Task Management Tools for task assignment, submission, and tracking for both employees and students. Communication Features: Real-time messaging systems to facilitate communication between interns, employees, and cohort owners. CohortManagement: Give cohort owners the ability to lead and support students, assign resources effectively, and keep a close eye on overall progress.

II. RELATED WORK

The technique that analysis In paper [1] The complete work documentation process in electronic portfolio (e-Portfolio) platform will facilitate students in reporting the results of their work to both university and industry supervisor.[2] In the survey paper [3]This category is often referred to as "groupware". The groupware topic has gained much attention over last years, primarily thanks to the rapid growth of internet in maturity and popularity. There] This paper describes current problems with project management as well as a web application created by authors, aimed to ease project management. In the survey paper[4] The Advanced Training and Placement Web Portal automates activities of TPO cell of college that provides opportunities to the students to increase selection ratio and it maintains student's information automatically. Collecting and authorizing the resumes, communicating about the various job opportunities with the students, managing the corporate relationship for inviting them for the placements, provides job openings to the alumni students who are not placed, maintaining information about placed students and then communicate with different users of system. In the survey paper[5] The project with the vision of being adapted by every educational institution to further ease their routine tasks. WICS (Web Based Internship Coordinating System) is a comprehensive toolkit for managing and coordinating internship programs in an educational institution. WICS was developed with the intension of providing an interactive tool for the faculty and students to communicate with each other whenever and wherever they want to. [6] In the survey paper [7] purpose of this study is to solve all the problems that exist in each stage of the internship process, starting from registration, selecting an internship place, selecting a supervisor, submitting an internship report and appraisal of internship reports. This study used descriptive research methods, the system approach method is an object oriented approach and the system development method is the Prototype Method. In the survey Paper [8] An internship enables you to gain first-hand exposure of working in the real world. It also allows students to harness the skill, knowledge, and theoretical practice they learnt in university. Internships provide a nice learning curve for students with little experience of the professional world. Internships provide students numerous perks: They gain experience, develop skills, make connections, strengthen their resumes, learn about a field, and assess their interests and abilities. In the survey paper[9] One of the top employment portals in India, Naukri.com acts as a crucial conduit for companies and job seekers. Through its vast database of job postings covering many industries and sectors, Naukri.com offers people a way to look through and apply for a wide range of career opportunities. To expedite their job search, job seekers can upload resumes, establish comprehensive profiles, and choose their preferred positions. Employers, on the other hand, use recruiting services and job postings on the platform to connect with a large pool of possible candidates.

III. PROPOSED WORK

The proposed Internship Management System seeks to address existing limitations by introducing a suite of innovative features designed to elevate user experience, streamline communication, and optimize functionality. At its core, the system prioritizes a user-centric design, offering a seamless and intuitive interface tailored to the

needs of students, employees, and cohort owners alike. By fostering an environment of accessibility and ease of use, the platform aims to empower users to navigate their internship journey with confidence and efficiency. Enhanced communication tools form a cornerstone of the system, facilitating fluid interaction and collaboration between interns, employees, and cohort owners through integrated messaging systems. Moreover, the platform's comprehensive functionality encompasses task management tools for students and employees, robust feedback mechanisms, and sophisticated cohort management features for cohort owners. Through these multifaceted capabilities, the proposed system endeavors to deliver a holistic internship experience that transcends traditional boundaries and fosters meaningful growth and development for all stakeholders involved.

A. System Architecture

The architecture of the Internship Management System is designed as a full-stack web application, following a three-tier architecture:
Presentation Layer :User Portals : Separate portals for students, employees, and cohort owners, each with a distinct user interface tailored to their needs.
Responsive Design : Utilizing modern frontend frameworks like React to ensure a responsive and user-friendly experience across devices.
Application Layer : Backend Framework : Implementation using a robust backend framework, such as Node.js or Django, to handle server-side logic.
RESTful APIs : Creation of RESTful APIs to facilitate communication between the frontend and backend, ensuring seamless data flow.

Fig.1 *System Architecture*
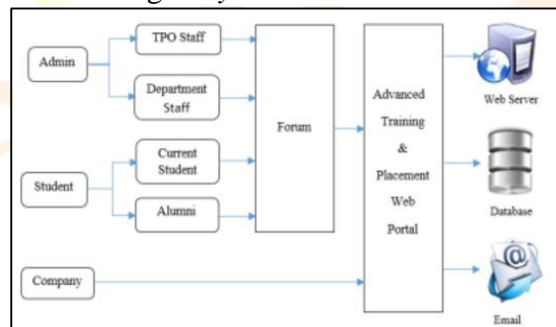
Data Layer : Database : Adoption of a relational database (e.g., MySQL) to store user data, internship details, and other relevant information. ORM (Object-Relational Mapping) : Use of ORM tools to simplify database interactions and enhance data integrity.

B. Use Case Diagram
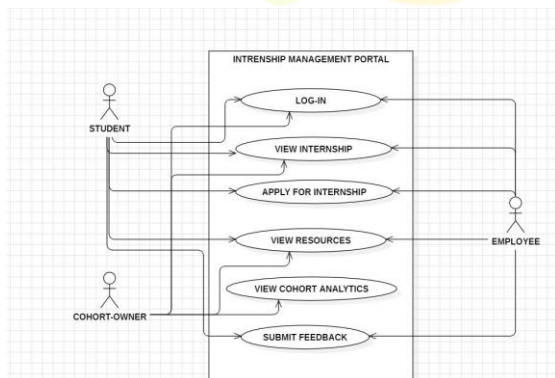
 Student : Login : Students can log in to the system. View Tasks : Access assigned tasks, submit documents, and track progress.
Communication : Communicate with peers and supervisors through messaging features.

Employee: Login : Employees can log in to the system. Assign Tasks : Assign tasks to interns, provide feedback, and monitor progress.
Communication : Communicate with interns through messaging features.
 Cohort Owner : Login : Cohort owners can log in to the system. Manage Cohorts : Create and manage internship cohorts,allocate resources, and monitor performance.Communication : Communicate with interns and employees.
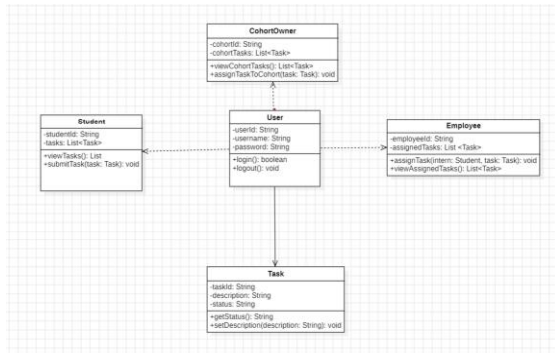
C. Class Diagram

Fig.2.Class Diagram

User Class: Represents a generic user in the system. Properties: userId: Unique identifier for the user. username: User's username for login. password: User's password for login. Methods: login(): Validates user credentials and returns a boolean. logout(): Logs the user out of the system. Student Class: Represents a user with the role of a student. Inherits properties from the User class. Additional properties: studentId: Unique identifier for the student. tasks: List of tasks assigned to the student. Methods: viewTasks(): Retrieves a list of tasks assigned to the student. submitTask(task: Task): Submits a task assigned to the student. Employee Class: Represents a user with the role of an employee. Inherits properties from the User class. Additional properties: employeeId: Unique identifier for the employee. assignedTasks: List of tasks assigned to the employee. Methods: assignTask(intern: Student, task: Task): Assigns a task to a student intern. viewAssignedTasks(): Retrieves a list of tasks assigned to the employee. CohortOwner Class: Represents a user with the role of a cohort owner. Inherits properties from the User class.

D. 1.User Interface Design
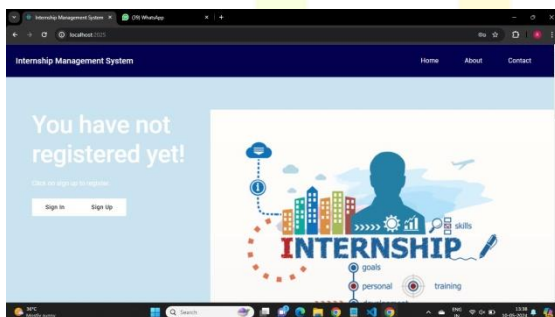
Users Log in with validated credentials
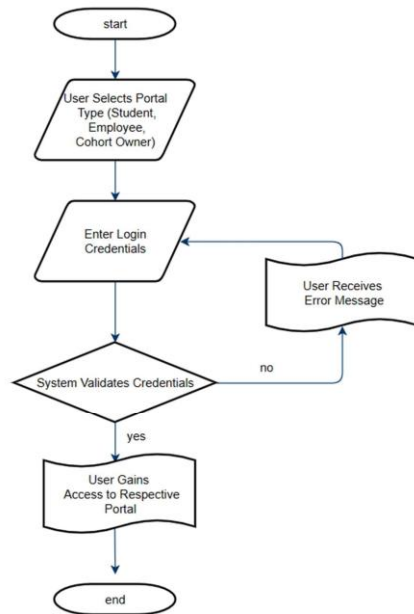
E. Flow Chart

Fig.3 Flow Chart

Users log in with validated credentials.
Student Dashboard: Students access their personalized dashboards. Apply for internships.
Internship Work: Students work on assigned internships.
Daily Check by Supervisor/Employee:
Supervisors or employees perform daily checks on internship progress.
Show to Cohort Owner: Students present their work progress to the Cohort Owner. Cohort Owner Dashboard:
Cohort Owners check and assess student progress.
Supervisor Dashboard: Supervisors conduct daily checks on internship work.
Provide Feedback: Supervisors provide feedback on student performance.
End Evaluation Process: Evaluation process concludes.
Internship Completed Successfully: Successful completion of the internship is acknowledged. End: The process concludes.

2. Student Dasboard

Student Dashboard: Students access their personalized dashboards. Apply for internships. Internship Work: Students work on assigned internships.
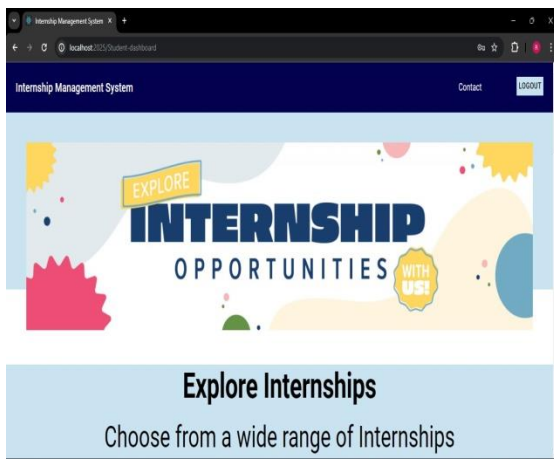
E. Results and Discussions

User-Centric Design : The project successfully achieved a user-centric design, providing an intuitive and accessible interface for students, employees, and cohort owners. Comprehensive Functionality : The implemented functionalities, including task management, real-time communication, and cohort analytics, contribute to a holistic internship experience. Efficient Task Workflow : The system streamlines task workflows, enhancing the efficiency of task assignment, submission, and feedback provision. Enhanced Communication : The integrated messaging system facilitates real-time communication, promoting collaboration and knowledge exchange among interns, employees, and cohort owners. Mobile Responsiveness : The project ensures mobile responsiveness,allowing users to access the system seamlessly across various devices.

F.Conclusion

The development and implementation of the Internship Management System marks a significant milestone in optimizing and modernizing the internship program management landscape. This chapter provides a conclusive summary of the achievements, outcomes, and reflections on the project.

3. Admin Dasboard
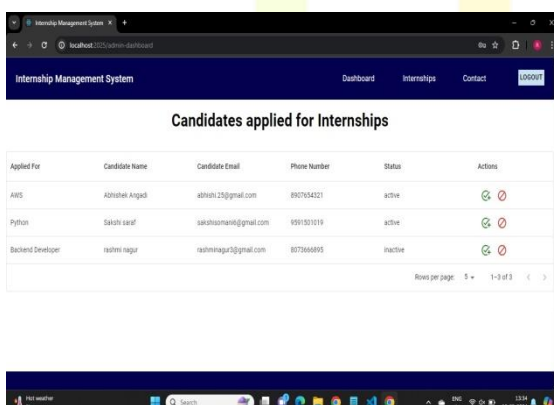
Admins or employees perform daily checks on internship progress.
Show to Cohort Owner: Students present their work progress to the Cohort Owner. Cohort Owner Dashboard: Cohort Owners check and assess student progress.
Supervisor Dashboard: Supervisors conduct daily checks on internship work.
Provide Feedback: Supervisors provide feedback on student performance.
End Evaluation Process: Evaluation process concludes.
Internship Completed Successfully:

Successful completion of the internship is acknowledged.

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