MINI PROJECT REPORT

ON

Internship Management System





SUBMITTED TO

Master of Computer Application (MCA)

LDRP Institute of Technology & Research Gandhinagar

BY

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UNDER THE GUIDANCE OF

Prof. Kinjal Patel

LDRP Institute of Technology and Research MCA Department December 2024

DESTRUCTION OF THE PROPERTY OF

LDRP Institute of Technology & Research

Sector - 15, Kh-5 Circle, Gandhinagar-382015.

CERTIFICATE

This is to certify that the <u>project titled</u> IMS (Internship Management System) is the bona fide work carried out by MR.MEET ANAGHAN (24MCA30003),MR.HARSH CHAUHAN (24MCA30019),MR. PRATIK KAVATHIYA(24MCA30040), MR. ARPIT KUKADIYA(24MCA30043) students of LDRP Institute of Technology and Research MCA Department, during the academic year 2024-25, in partial fulfillment of the requirements for the award of the degree of MCA Semester 1 (Mini Project-I).

Date:14/12/2024

Prof.Kinjal Patel

Prof. Mahendra Khambhalia.

Project Guide

Head of Department

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1. Acknowledgement

We express our deepest gratitude to everyone who contributed to the successful completion of the Internship Management System (IMS) project. First and foremost, we extend our sincere appreciation to our esteemed institution, LDRP Institute of Technology and Research, for providing us with the opportunity to work on this project as part of our academic curriculum. We are profoundly grateful to our guide, Prof. Kinjal Patel, whose invaluable insights, guidance, and constant encouragement have been instrumental in shaping this project. Their expertise and constructive feedback played a crucial role in helping us overcome challenges and refine the system effectively.

We also wish to acknowledge the support of our peers and friends, whose helpful suggestions and motivation greatly contributed to the development process.

This project has been a remarkable learning experience for the entire team. The skills and knowledge gained during the development of the IMS project will undoubtedly serve as a strong foundation for future endeavors.

2. Introduction

The Internship Management System (IMS) is a comprehensive web-based application designed to bridge the gap between students, companies, and educational institutions by streamlining the internship and workshop management process. This system provides an intuitive platform where all stakeholders can collaborate efficiently to achieve their objectives.

The IMS empowers companies to post and manage internship vacancies, organize workshops, and handle applications from students in an organized and efficient manner. Companies can review, accept, or reject applications through an interactive dashboard, simplifying the recruitment process.

The admin role facilitates oversight and control, ensuring that all activities within the system are executed seamlessly. Admins can add and monitor workshops and vacancies, manage user roles, and oversee the end-to-end process to maintain transparency and consistency.

On the other hand, students can explore a wide range of internship opportunities and workshops posted by companies. The system allows students to apply for internships and register for workshops through a user-friendly interface. Students can track their application status, ensuring they stay updated throughout the process.

The key features of the system include:

- Vacancy Management: Companies can add, edit, and delete internship vacancies while tracking applications.
- Workshop Management: Admins and companies can schedule workshops and manage participant registrations.
- Application Tracking: Students can easily apply for internships and workshops and receive updates on their application status.
- Centralized Management: A single platform for students, companies, and admins to interact effectively.

By automating the internship and workshop management process, the IMS ensures transparency, efficiency, and a seamless experience for all users. It not only reduces the administrative burden but also enhances the interaction between academia and industry, creating a robust platform for professional growth and development.

3. Existing system

1. Manual Process

• Communication Gaps: Most communication between students, companies, and academic coordinators happens through emails or phone calls, leading to missed opportunities and delays.

2. Limited Accessibility

• Students often rely on notice boards or emails to find internship opportunities, which is neither efficient nor widely accessible.

3. Lack of Integration

• There is minimal interaction between companies, students, and institutions, leading to poor collaboration and a fragmented process.

4. Inefficiency in Workshop Management

- Organizing workshops involves manual scheduling, participant tracking, and feedback collection, which can result in errors and mismanagement.
- Students may miss out on workshops due to inadequate communication channels or inefficient registration processes.

5. Poor Application Tracking

- Students have limited visibility into their application status, creating confusion and uncertainty.
- Companies and administrators struggle to efficiently manage and review applications due to the absence of automated tools

.Challenges in the Existing System:

- Lack of Real-Time Updates: Delayed notifications for students about application status or workshop schedules.
- **Scattered Information:** Difficulty in maintaining accurate and up-to-date records of vacancies, applications, and workshops.

4. Problem areas of existing system

1. Manual and Time-Consuming Processes

 Inefficient Vacancy Posting: Companies rely on email or paper-based methods to share internship opportunities, leading to delays in reaching potential candidates.

2. Lack of Centralization

• Scattered Information: Student records, applications, and workshop details are stored in multiple locations or formats (e.g., spreadsheets, emails, or paper files),

3. Limited Communication

- Delayed Notifications: Students often miss deadlines or updates due to inadequate communication channels.
- Poor Feedback Mechanisms: There is no streamlined way for companies to provide feedback on student applications or for students to track their progress.

4. No Real-Time Updates

- Students do not have visibility into the status of their applications, creating uncertainty and confusion.
- Admins and companies face delays in updating and accessing critical data such as workshop schedules or application status.

5. Workshop Management Challenges

- Manual Registration: Students often register for workshops via paper forms or emails, leading to inefficiencies and possible mismanagement.
- Tracking Issues: Maintaining a record of workshop participants and their attendance is cumbersome without an automated system.

5. Need for the new system

1. Streamlined Internship Management

Automates the process of adding, managing, and tracking internship vacancies, reducing the administrative burden on companies and institutions. Provides students with a simple interface to search and apply for internships, ensuring a seamless experience.

2. Efficient Workshop Management

Simplifies the organization of workshops by enabling companies and administrators to schedule events, manage participant registrations, and track attendance effortlessly.

Offers students real-time updates on available workshops and ensures quick and hassle-free registration.

2. Centralized Platform

Combines all stakeholders (students, companies, and admins) on a single platform for better collaboration and communication.

Ensures all data, such as vacancies, applications, and workshop details, is stored securely in a centralized database, eliminating redundancy and fragmentation.

3. Enhanced Communication

Provides real-time notifications and updates to students about new vacancies, workshop schedules, and application statuses.

Facilitates smooth interaction between companies and students through built-in communication tools.

4. Transparency and Tracking

Enables students to track their application status and receive timely updates, ensuring transparency throughout the process.

Allows companies and admins to monitor applications, workshop participation, and other activities through dashboards and reports.

6.Proposed System

The Internship Management System (IMS) is designed to provide a streamlined, centralized platform for managing internships and workshops. The system is built to cater to three user roles: Jobseekers (students), Admins, and Companies.

1. Login/Registration Module

- Both Jobseekers and Companies can log in or register to access the platform.
- o Users are directed to their respective dashboards after successful authentication.

2. Dashboard

 Each role (Jobseekers, Admins, Companies) has access to a customized dashboard based on their functions within the system.

3. Jobseeker Features

- Apply for Jobs: Jobseekers can browse job vacancies posted by companies and submit their applications.
- Register for Workshops: Jobseekers can view and register for workshops organized by admins or companies.

4. Admin Features

- Workshop Management: Admins can oversee and manage workshops, including creating and scheduling them.
- Application Management: Admins can view and manage applications submitted by jobseekers for various internships.

5. Company Features

- Job Vacancy Management: Companies can post new vacancies and update or delete existing ones.
- Application Review: Companies can review job applications, track their status, and update them as needed.

6. Database Integration

- All data, including job vacancies, applications, workshop details, and user information, is securely stored in a centralized database.
- The database supports real-time updates, ensuring the system remains consistent and reliable.

7. Feasibility study

1. Technical Feasibility:

- System Compatibility: The IMS should be compatible with existing hardware and software infrastructure, ensuring smooth integration with current technologies.
- Scalability: The system should be scalable to handle increasing inventory data, users, and transactions over time.

2. Operational Feasibility:

- Ease of Use: The system must be user-friendly, ensuring minimal training is required for staff to operate effectively.
- Workflow Integration: The IMS should fit into the organization's existing workflows without requiring major changes in operations.

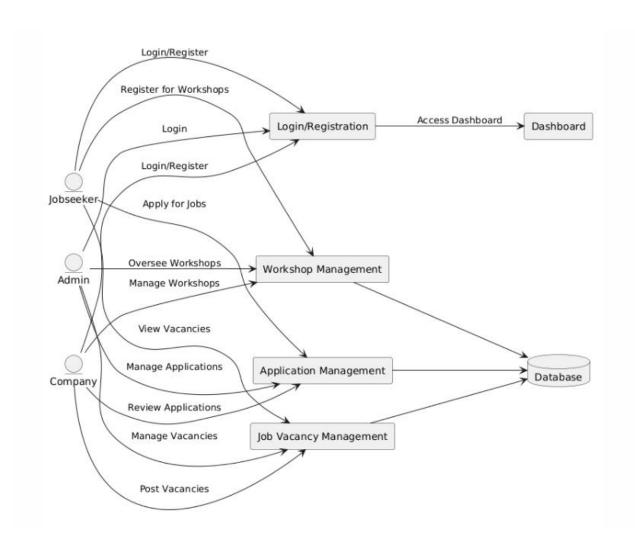
3. Time Feasibility:

- Implementation Time: The system should be designed and deployed within a reasonable timeframe, without causing delays in daily operations.
- Milestones and Deadlines: Key milestones must be clearly defined, such as system design, user testing, and final deployment, to ensure timely completion.

4. Economic Feasibility:

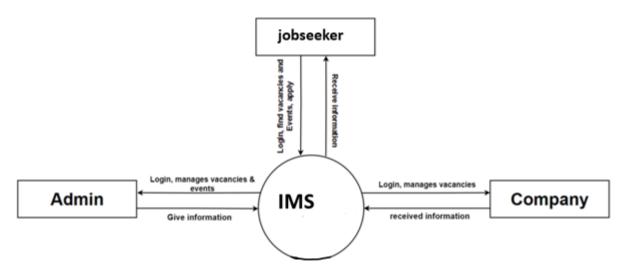
- Initial Investment: The cost of implementing the IMS, including software, hardware, and development, should be within the organization's budget.
- Return on Investment (ROI): The system should deliver tangible benefits, such as reduced inventory errors and improved efficiency, to justify the cost.

8.System Flow Diagram



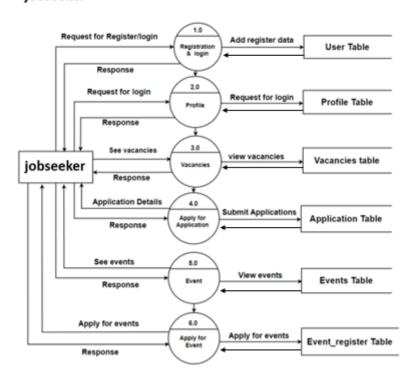
9.DFDs (context level, 0 level, 1st level, 2nd level)

Context level DFD

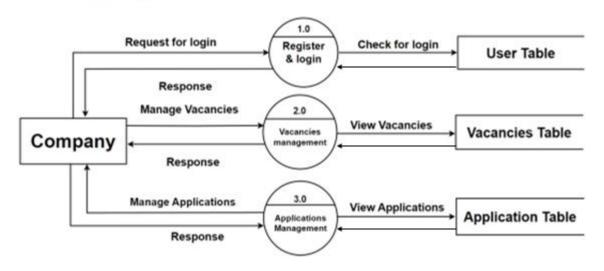


First level DFD

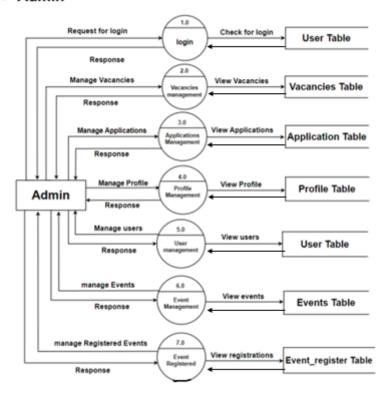
jobseeker



Company

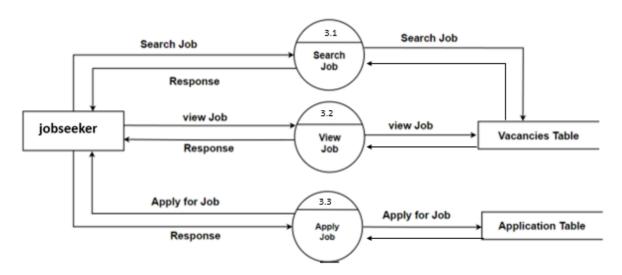


Admin

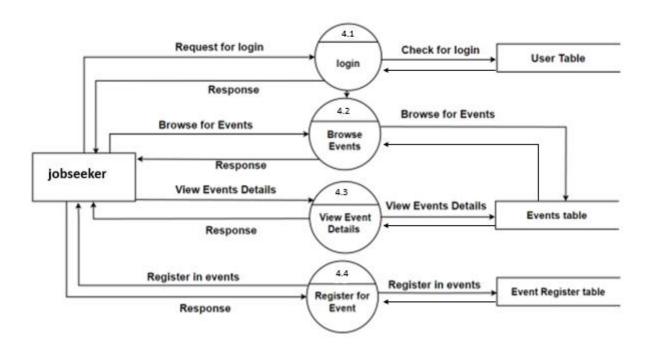


Second level (jobseeker)

Vacancies

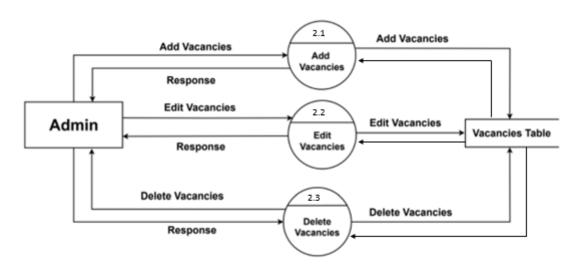


Events

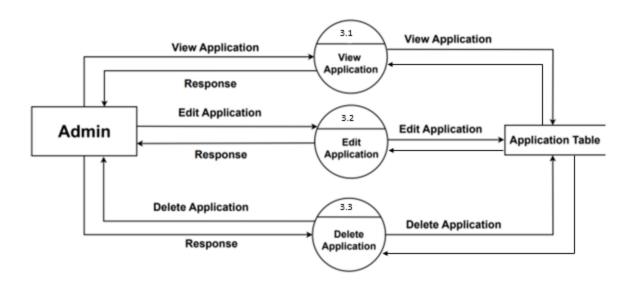


Second level (Admin)

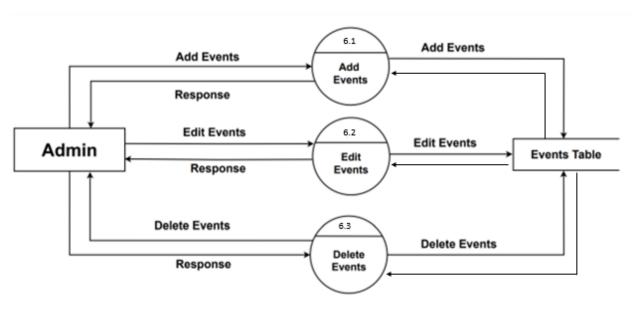
· Vacancies management



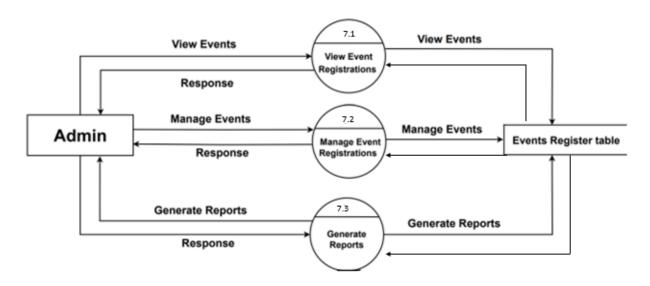
· Application management



Event management

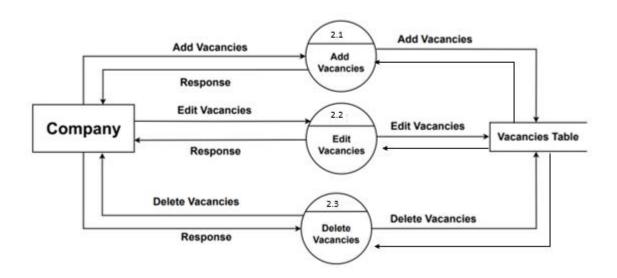


Event Registered

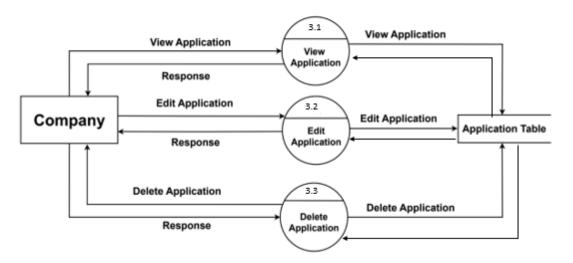


Second level (Company)

· Vacancies management

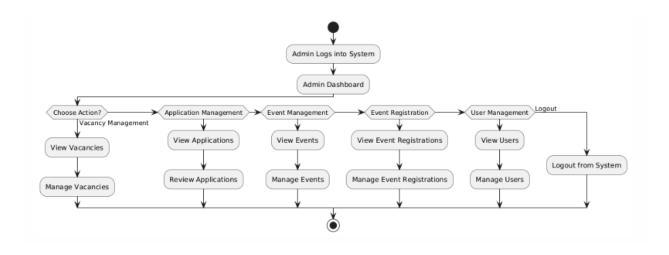


· Application management

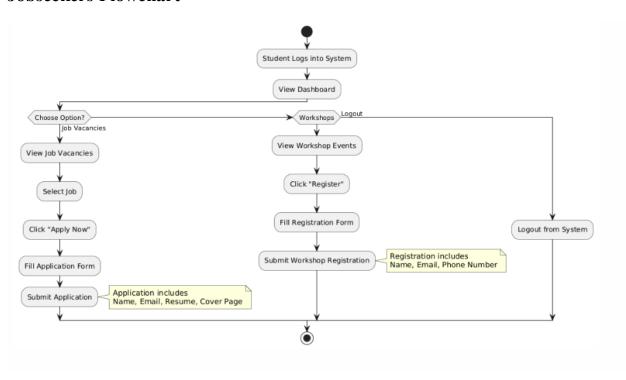


10.Flow Chart

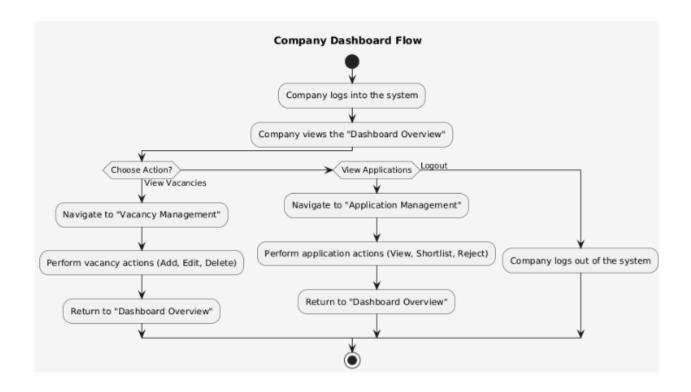
Admin Flowchart



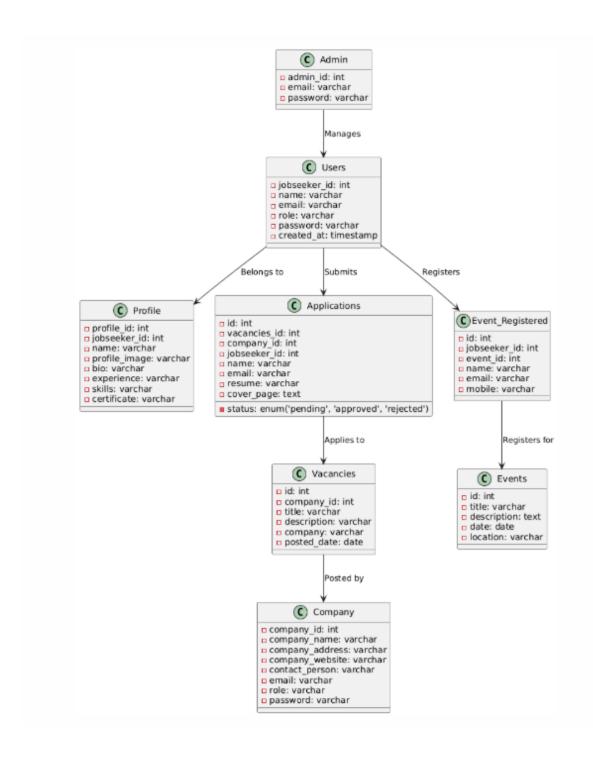
Jobseekers Flowchart



Company Flowchart



11. Entity Relationship Diagram



12. Data Directory:

Admin table

Field Name	Data Type	Size	Constraints	Description
Admin_id	Integer	11	Primary Key	admin id
Email	Varchar	100	Not null	Admin email
Password	Varchar	100	Not null	Password
role	Varchar	50	Not null	By default (Jobseeker)

Jobseeker table

Field Name	Data Type	Size	Constraints	Description
jobseeker_id	Integer	11	Primary Key	jobseeker id
name	Varchar	100	Not null	jobseeker name
Email	Varchar	100	Not null	jobseeker email
role	Varchar	50	Not null	By default (Jobseeker)
Password	Varchar	100	Not null	Password
created_at	timestamp	-	-	current_timestamp()

Company table

Field Name	Data Type	Size	Constraints	Description
Company _ld	Integer	11	Primary Key	company id
Company_name	Varchar	100	Not null	company name
Company_address	Varchar	100	Not null	company address
Company_website	Varchar	200	Not null	Company_website
email	Varchar	200	Not null	Company email
contact_person	Varchar	100	Not null	contact_person
role	Varchar	50	Not null	By default (company)
Password	Varchar	100	Not null	Password

Profile table

Field Name	Data Type	Size	Constraints	Description
Profile_id	Integer	11	Primary Key	Profile id
Jobseeker_id	Integer	11	Foreign Key	Jobseeker id
Name	Varchar	100	Not null	Jobseeker name
Profile_image	Varchar	200	Not null	Jobseeker image
Bio	Varchar	500	Not null	Jobseeker bio
Experience	Varchar	500	Not null	Jobseeker experience
Skills	Varchar	200	Not null	Jobseeker skills
Certificate		100	Not null	Jobseeker certificate

Event table

Field Name	Data Type	Size	Constraints	Description
Event_Id	Integer	11	Primary Key	event id
Admin_id	Integer	11	Foreign Key	admin id
Title	Varchar	50	Not null	Event title
Description	Text	50	Not null	Description
Date	Date	10	Not null	Event Date
Location	Varchar	100	Not null	Event Location

Eventregistration table

Field Name	Data Type	Size	Constraints	Description
Eventregistration _Id	Integer	11	Primary Key	event id
jobseeker_id	Integer	11	Not null	jobseeker id
Event_id	Integer	11	Foreign Key	event id
Name	Varchar	100	Not null	Jobseeker name
Email	Varchar	100	Not null	Jobseeker email
Mobile	Varchar	10	Not null	Jobseeker mobile no

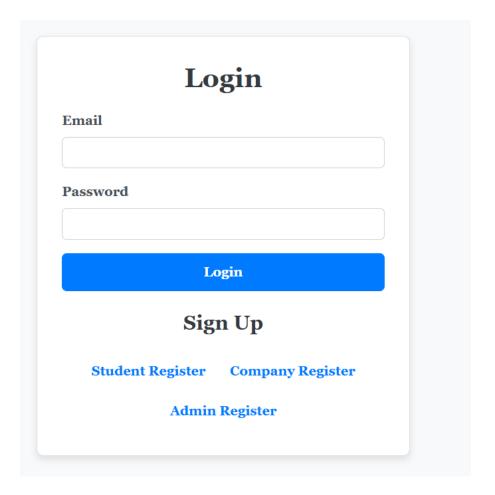
Vacancies table

Field Name	Data Type	Size	Constraints	Description
Vacancies_Id	Integer	11	Primary Key	vacancies id
Company_id	Integer	11	Foreign Key	company id
Title	Varchar	100	Not null	vacancies title
Description	Varchar	500	Not null	Description
Company	Varchar	50	Not null	Company name
Posted_date	Date	30	Not null	Posted date

Application table

Field Name	Data Type	Size	Constraints	Description
Application_id	Integer	11	Primary Key	Profile id
Vacancies_id	Integer	11	Foreign Key	vacancies id
Jobseeker_id	Integer	11	Not null	Jobseeker id
Name	Varchar	100	Not null	Jobseeker name
email	Varchar	100	Not null	Jobseeker email
Resume	Varchar	100	Not null	Jobseeker Resume
Cover_page	Varchar	600	Not null	Jobseeker cover page
Status	Varchar	30	Not null	{passed,failed}

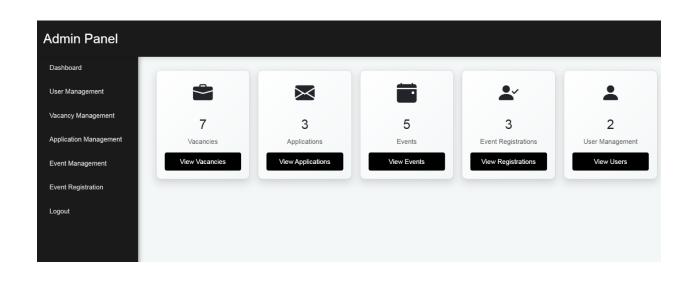
13. User Interface Screens

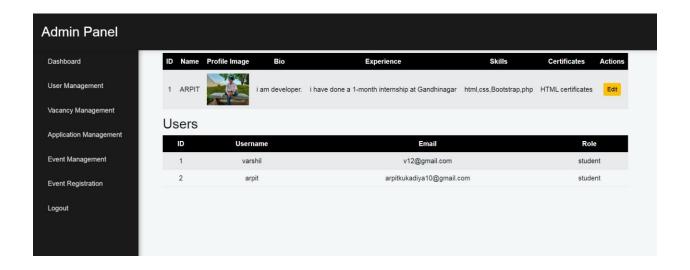


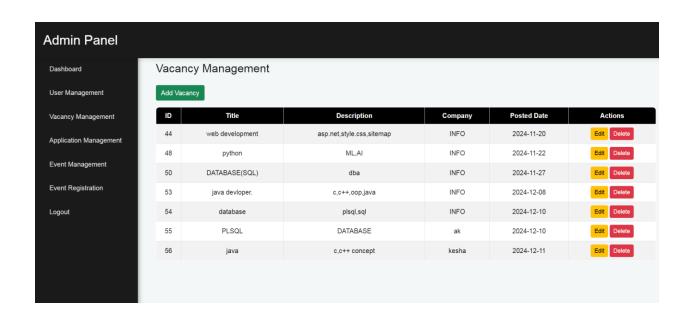
	lent Regist	
Full Name		
Email		
Password		
	Register	
	Sign In	

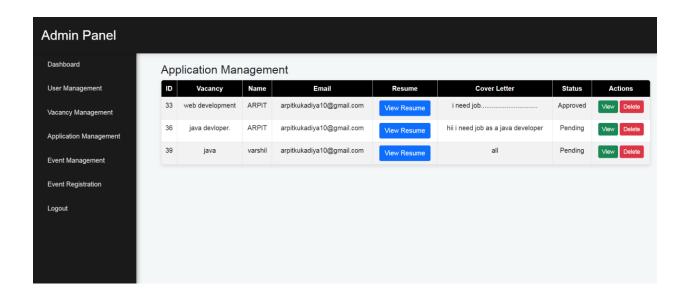
Company Registration Company Name Company Address Company Website Contact Person Email Password Register Sign In

	Admin Registration
Email	
Passwo	rd
	Register



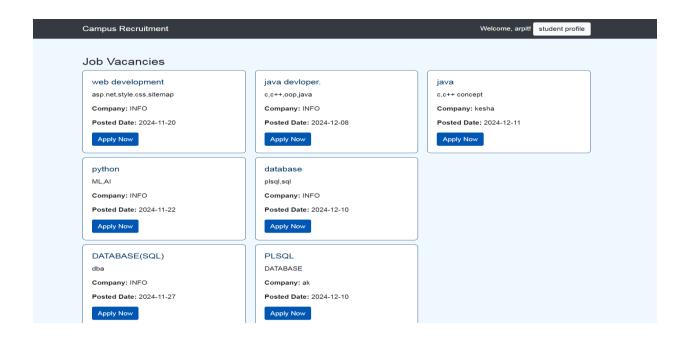






Admin Panel Dashboard **Event Management** User Management Vacancy Management Event Date Title Description Location Application Management Learn the basics of full-stack web development in this intensive 2024-10-25 Tech Auditorium, Ahmedabad 1 Web Development Bootcamp Event Management Al and Machine Learning Workshop An advanced workshop focusing on AI and ML algorithms and their applications. 2024-11-02 2 Innovation Hall, Mumbai Delete Event Registration This workshop will cover data manipulation, analysis, and visualization using Python. 2024-11-15 Data Science with Python Data Lab, Bangalore 2024-12-05 4 Cloud Computing Fundamentals Get introduced to cloud platforms, infrastructure, and services. Skyline Tower, Delhi 2024-12-12 Learn the essentials of protecting data and networks from cyber threats. Secure Center, Pune 5 Cybersecurity Basics

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er Management			LIOT OF I	rtogiotoroa Evont		
acancy Management	ID	Event Name	Name	Email	Mobile	Registration Date
calley Management	20	Data Science with Python	bapu	arpit@gmail.com	1231212121	2024-11-15
plication Management	21	Web Development Bootcamp	varshil	kukadiyavarshil@gmail.com	56465464	2024-10-25
ent Management	25	Data Science with Python	varshil	kukadiyavarshil@gmail.com	56465464	2024-11-15
event Registration						



Workshops

Web Development Bootcamp

Learn the basics of full-stack web development in this intensive bootcamp.

Date: 2024-10-25

Location: Tech Auditorium, Ahmedabad

Register Now

Al and Machine Learning Workshop

An advanced workshop focusing on AI and ML algorithms and their applications.

Date: 2024-11-02

Location: Innovation Hall, Mumbai

Register Now

Data Science with Python

This workshop will cover data manipulation, analysis, and visualization using Python.

Date: 2024-11-15

Location: Data Lab, Bangalore

Register Now

Cloud Computing Fundamentals

Get introduced to cloud platforms, infrastructure, and services.

Date: 2024-12-05

Location: Skyline Tower, Delhi

Register Now

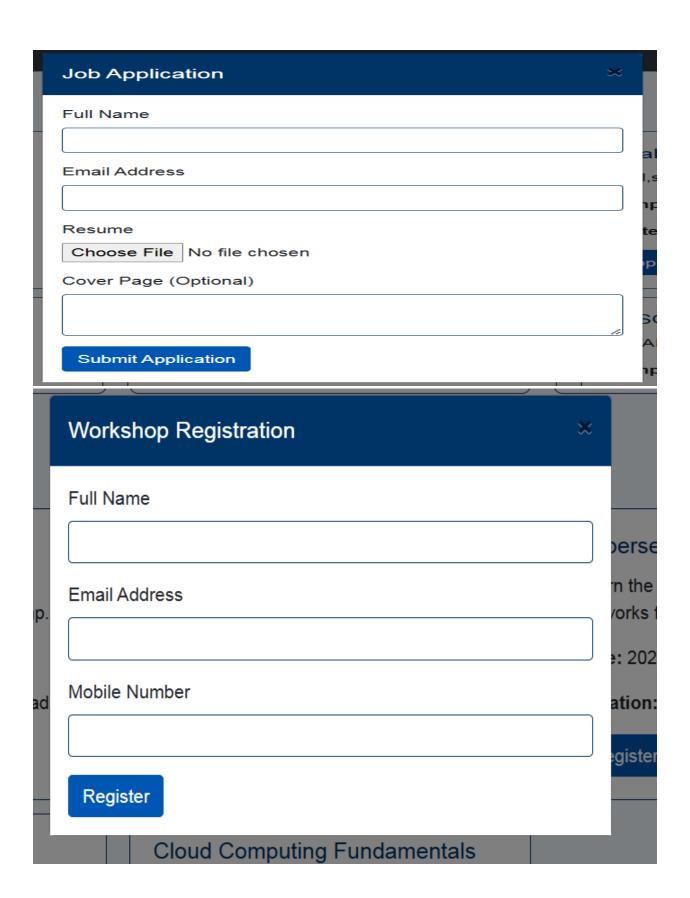
Cybersecurity Basics

Learn the essentials of protecting data and networks from cyber threats.

Date: 2024-12-12

Location: Secure Center, Pune

Register Now



Jobseeker Profile

Name

ARPIT

Profile Image



Bio

i am developer.

Experience

i have done a 1-month internship at Gandhinagar

Skills

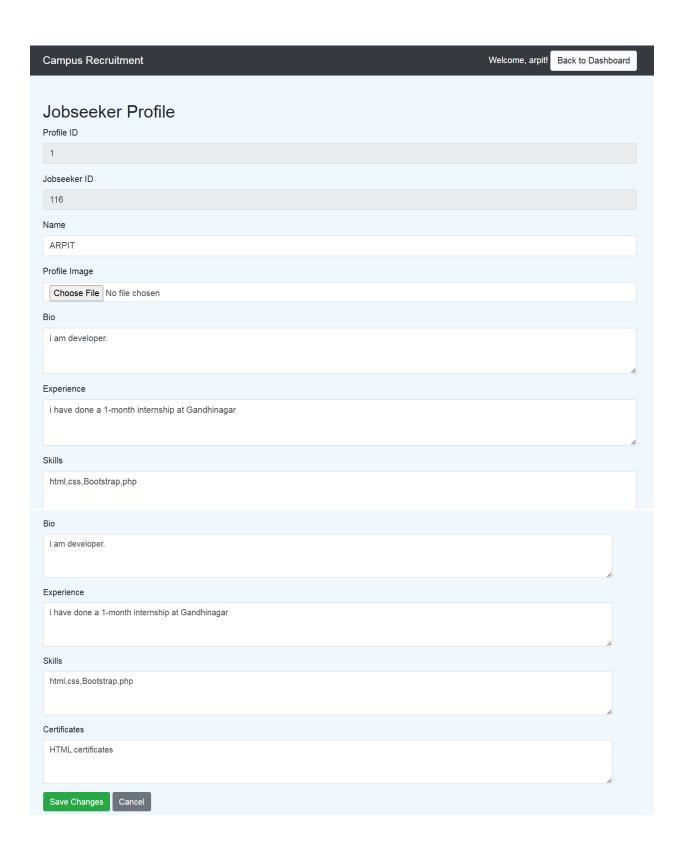
html, css, Bootstrap, php

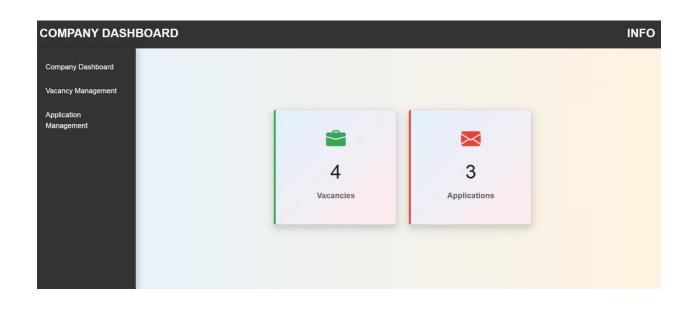
Certificates

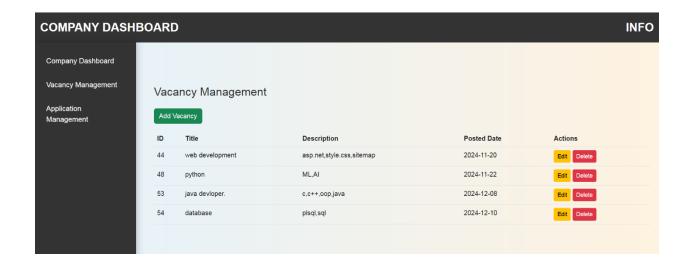
HTML certificates

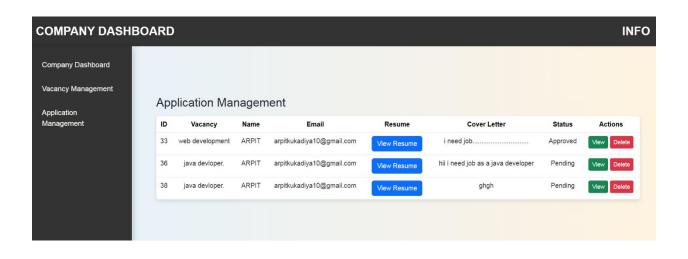


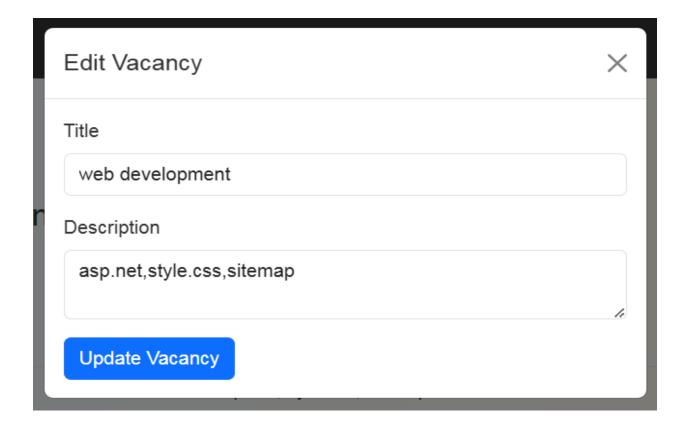
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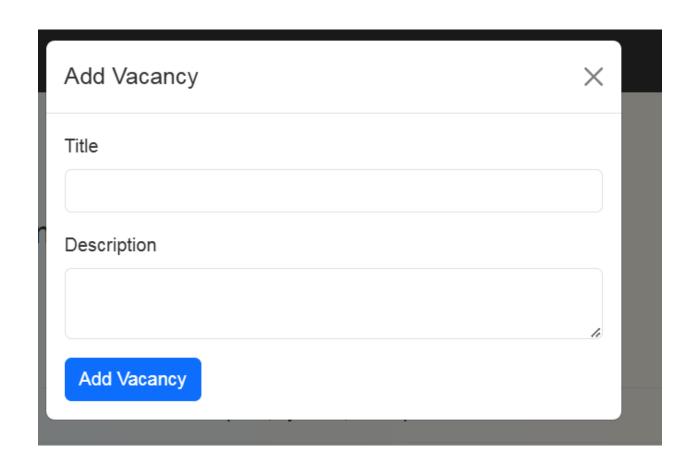












14. Test Plan and Test Cases

Test Case ID	Module	Field	Test Scenario	Test Steps	Expected Result	Actual Result	Status
TC01	Company Registration	Company Name	Field is required	Leave the "Company Name" field empty and attempt to submit the form.	Display error message: "Company Name is required."	ok	Checked
TC02	Company Registration	Email	Must contain "@"	Enter an invalid email (e.g., companyexample.co m) and attempt to submit the form.	Display error message: "Please enter a valid email address."	ok	Checked
TC03	Company Registration	Password	Minimum 8 characters, at least one alphabet, number, and special character	Enter abc123 as the password and attempt to submit the form.	Display error message: "Password must be at least 8 characters long and include a letter, a number, and a special character."	ok	Checked
TC04	Student Registration	Full Name	Field is required	Leave the "Full Name" field empty and attempt to submit the form.	Display error message: "Full Name is required."	ok	Checked
TC05	Student Registration	Email	Must contain "@"	Enter an invalid email (e.g., studentexample.com) and attempt to submit the form.	Display error message: "Please enter a valid email address."	ok	Checked
TC06	Student Registration	Password	Minimum 8 characters, at least one alphabet, number, and special character	Enter password as the password and attempt to submit the form.	Display error message: "Password must be at least 8 characters long and include a letter, a number, and a special character."	ok	Checked
TC07	Admin Registration	Email	Must contain "@"	Enter an invalid email (e.g., adminexample.com) and attempt to submit the form.	Display error message: "Please enter a valid email address."	ok	Checked
TC08	Admin Registration	Password	Minimum 8 characters, at least one alphabet, number, and special character	Enter admin123 as the password and attempt to submit the form.	Display error message: "Password must be at least 8 characters long and include a letter, a number, and a special character."	ok	Checked
TC09	Internship Application	Student Application Form	Validate required fields	Leave "Resume" or "Cover Letter" fields blank and attempt to submit.	Display error message: "Resume and Cover Letter are required."	ok	Checked
TC10	Internship Application	Apply for Internship	Validate applying for the same internship twice	Apply for the same internship twice with the same student account.	Display error message: "You have already applied for this internship."	ok	Checked

15. Future Enhancement

1. Smart Internship Matching

- What it does: Uses AI to match students with the best-suited internships based on their skills, preferences, and company requirements.
- Why it's great: Saves time for students and companies while ensuring the perfect fit.

2. Real-Time Application Tracking

- What it does: Provides live updates on application statuses for students and recruiters, with notifications for important milestones.
- Why it's great: Keeps everyone in the loop, avoiding confusion or missed opportunities.

3. Centralized Internship Dashboard

- What it does: Manages all internships, applications, and evaluations in one place for students, admins, and companies.
- Why it's great: Simplifies management, making it easier to handle multiple applications and review progress.

4. Automated Notifications and Reminders

- What it does: Sends timely alerts about deadlines, interview schedules, and feedback submissions.
- Why it's great: Keeps students and recruiters on track without manual follow-ups.

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- 3. GeeksforGeeks. (2024). *Internship Management System Development*. Retrieved from https://www.geeksforgeeks.org/

• Online Platforms:

- 1. Google. (2024). Search Engine for Research and Information Gathering. Retrieved from https://www.google.com
- 2. Stack Overflow. (2024). "How to create an Internship Management System." Retrieved from https://www.stackoverflow.com