

# "Placement Cell System"

NAME-

SHRUTI DESHMANE

OM LAKARE

TANAYA AGHAV

PRN-

SP04210033

SP04210074

SP04210135



# Introduction

- Overview of the Placement Cell System project as a web-based application aimed at simplifying and enhancing the placement process for students and the college.
- This project focuses on creating a user-friendly platform that enables students to register for placements and apply to job openings. For the admin, the system provides features to manage company registrations, schedule interviews, and track placement activities effectively.



# Everyone's Role in project

- Shruti Deshmane - Frontend included Html, CSS, Bootstrap & Documentation
- Om Lakare – Backend included python & PPT
- Tanaya Aghav – Database



# What you learned

- Importance of effective communication and collaboration within the team.
- Significance of user feedback.
- Value of proper planning, testing, and documentation.
- Insights gained into project management.
- How to use Python Flask library

# Motivation

- The motivation behind developing a Placement Cell System project lies in addressing several key challenges faced by both students and college staff in the current manual or semi-automated processes.
- Here are some key motivations Efficiency, Transparency, Enhanced Student Experience, Data Analysis, Competitive Edge, Scalability, Adaptability.
- Overall, the motivation for developing a Placement Cell System project is to modernize and streamline the placement process, ultimately benefiting students and the institution as a whole.



# Problem Statement

- The current manual system for managing student placements at our college is inefficient and error-prone. It involves a lot of paperwork, manual data entry, and coordination between students, placement cell staff, and recruiting companies. This manual process often leads to delays, inaccuracies, and a lack of transparency in the placement process.
- There is a need for a more efficient and automated system that can streamline the entire placement process, from student registrations to job postings to interview scheduling. Such a system should provide students with easy access to job opportunities.

# Existing system



## ➤ **Manual System**

- Paper-based approach.
- Time-consuming, prone to errors.
- Limited automation and tracking.

## ➤ **Spreadsheets**

- Uses spreadsheet software.
- Better organization but can be complex.
- Limited integration and real-time updates.

## ➤ **Custom Software**

- Tailored functionalities.
- Costly to develop and maintain.
- Suitable for complex needs.





# Proposed system

## ➤ **Web-Based Automation**

- Centralized web platform automating student registrations, job postings, and interview scheduling.
- Streamlines processes and reduces manual efforts.

## ➤ **User-Friendly Interface**

- Intuitive interface for students to apply, update profiles, and schedule interviews.
- Admin tools for efficient user and company management.





# Requirement Analysis



- Functional Requirements: Detailed actions and interactions.
- Performance Requirements: Response time, scalability, reliability.
- Security Requirements: access control.
- Usability Requirements: User interface design principles.

# Modules

- Student Module:

- Registration process.
- Profile management (resume, preferences).
- Job search and application.
- Interview scheduling.

- Admin Module:

- User management.
- Company registration.
- Job posting.
- Interview scheduling.

# Implementation Details

## ➤ Software Specifications:

### ➤ Operating System:

- Development: Windows, macOS, Linux
- Production: Linux (e.g., Ubuntu, CentOS)

### ➤ Database:

- Development: SQLite3

### ➤ Backend Framework:

- Python

### ➤ Frontend Frameworks/Libraries:

- HTML, CSS, JavaScript
- Bootstrap

### ➤ Development Tools:

- IDE: Visual Studio Code, CMD

## ➤ Hardware Specifications:

### ➤ Server:

- Processor: Intel Xeon or equivalent
- RAM: 8GB or more
- Storage: SSD preferred for faster performance

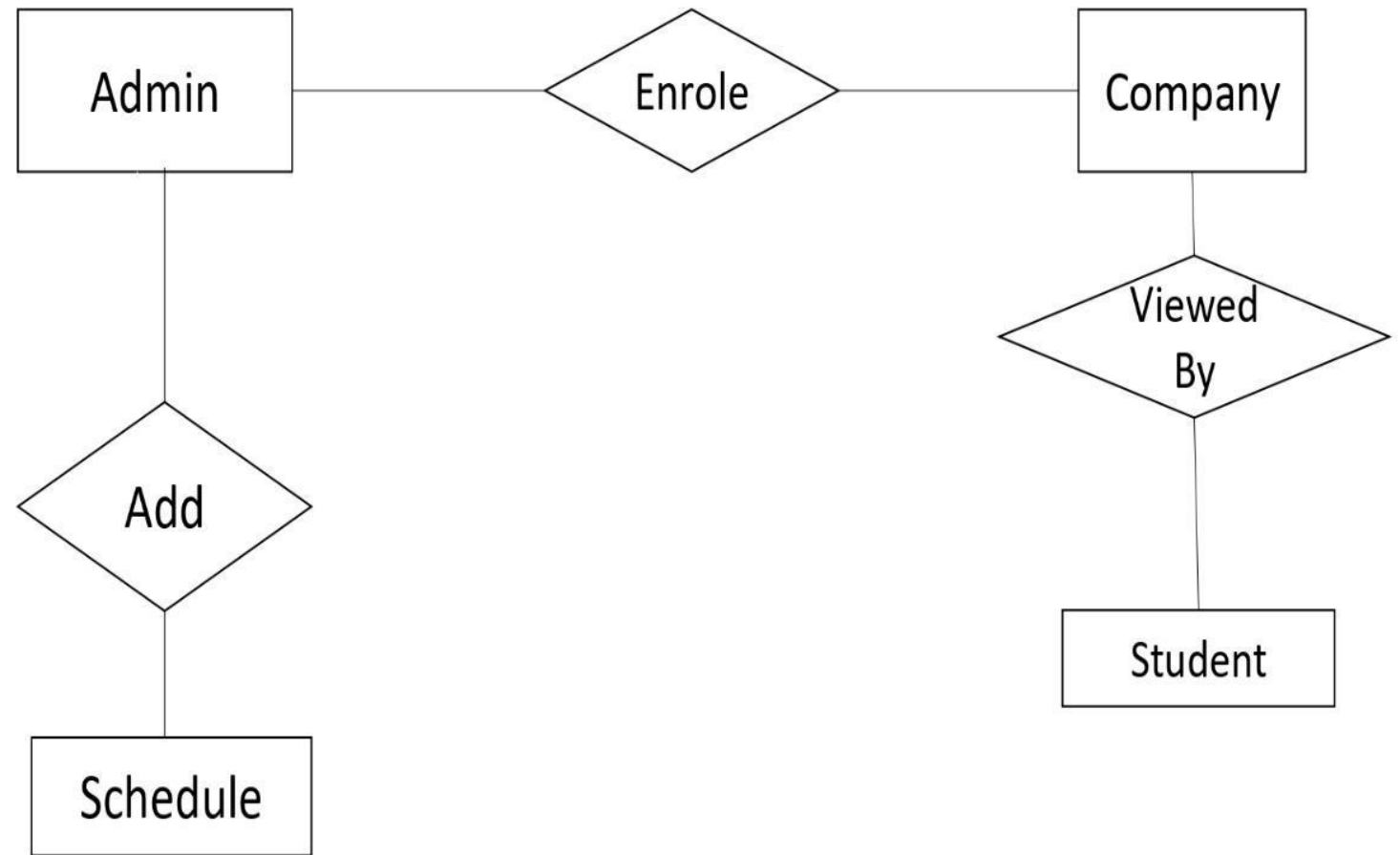
### ➤ Client Devices:

- Any modern web browser (e.g., Chrome, Firefox, Safari)

### ➤ Networking:

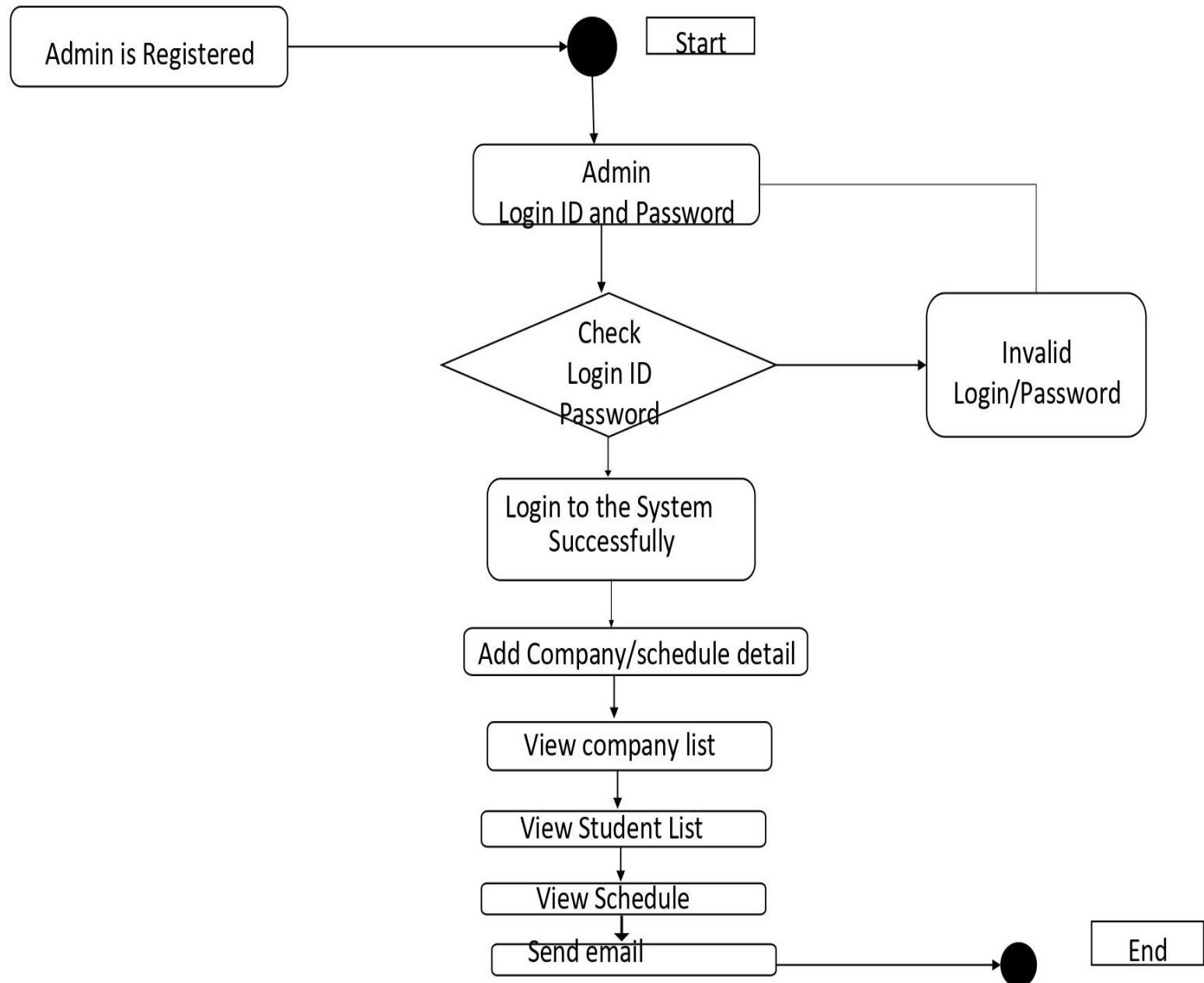
- Stable internet connection for server hosting

# System Design: ERD

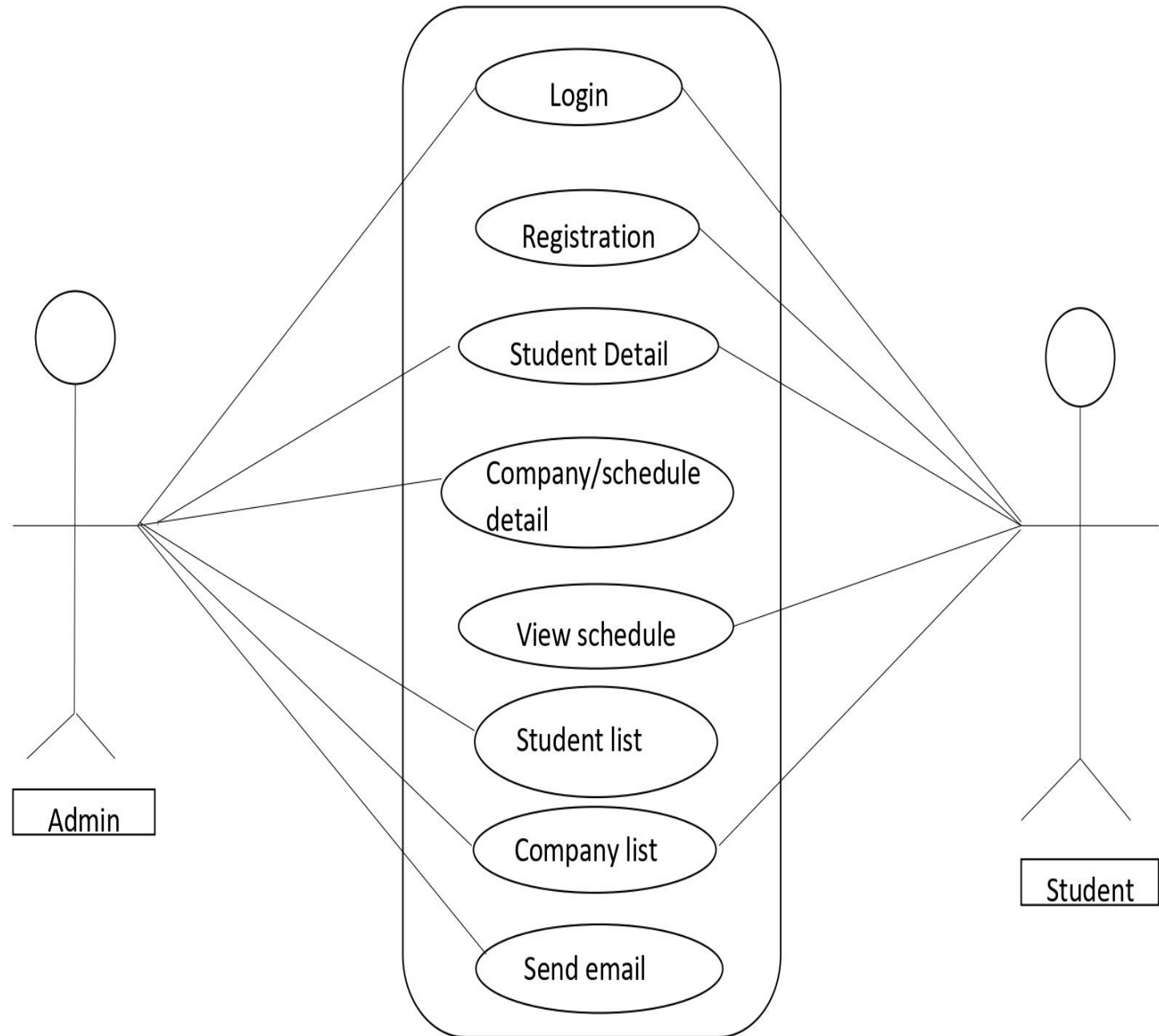


# UML Diagrams

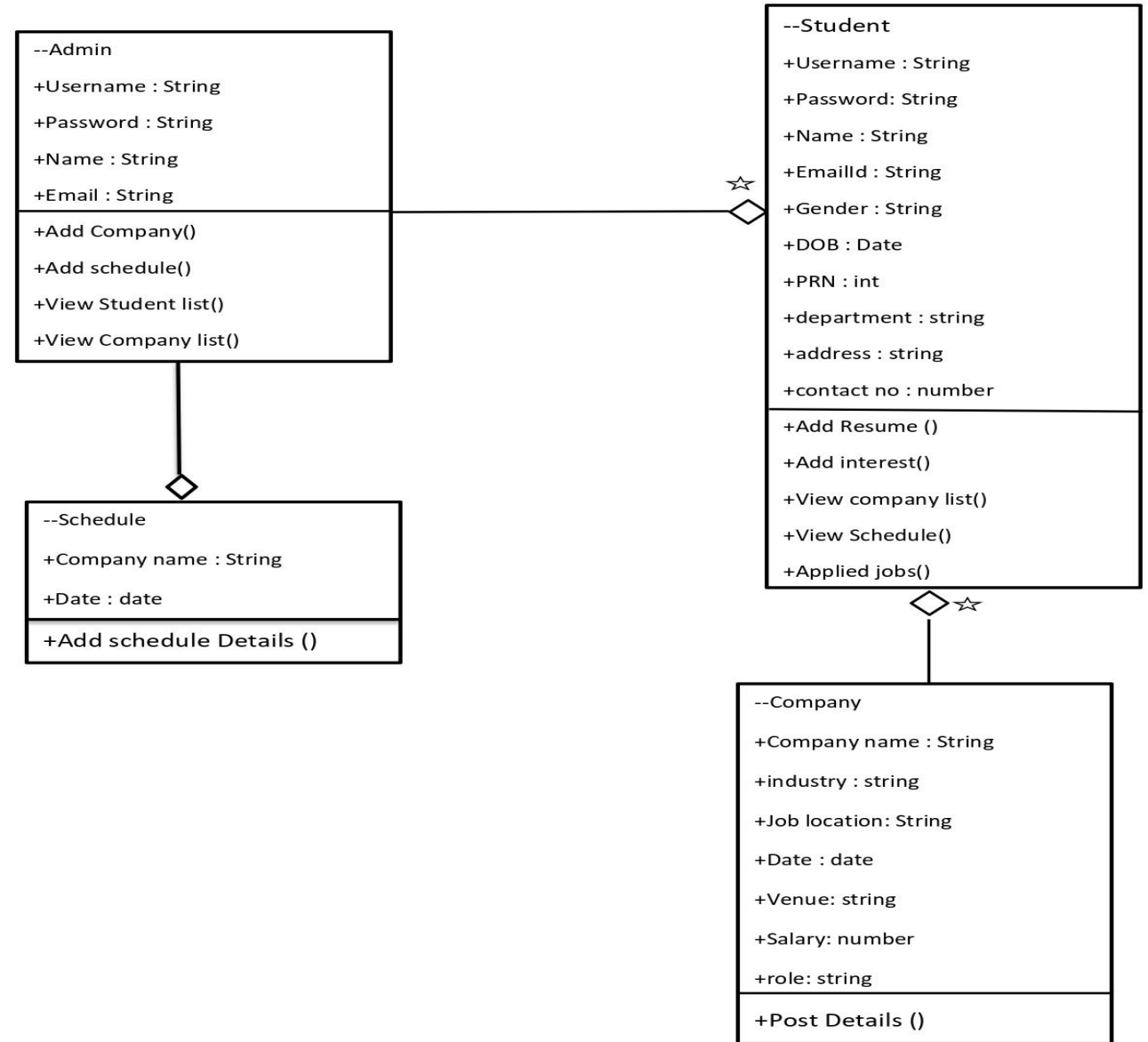
## Activity diagram -



# Use case diagram -



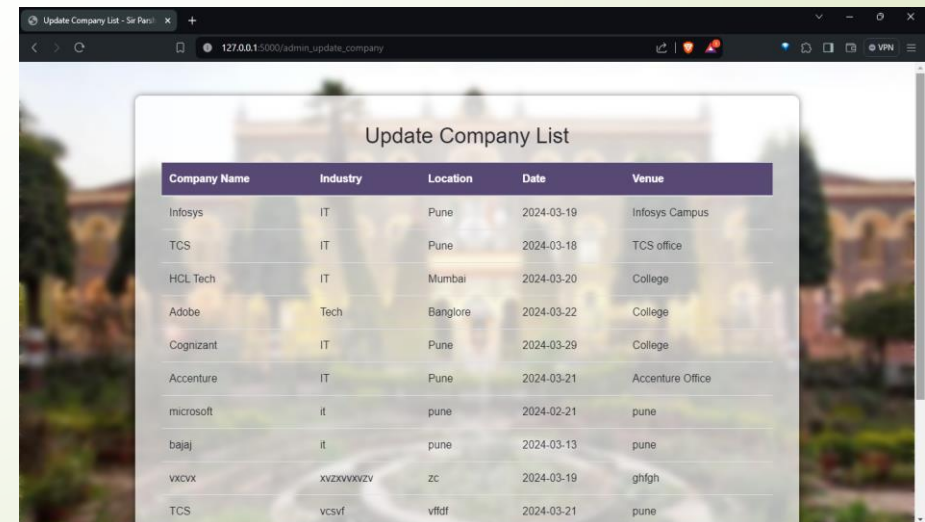
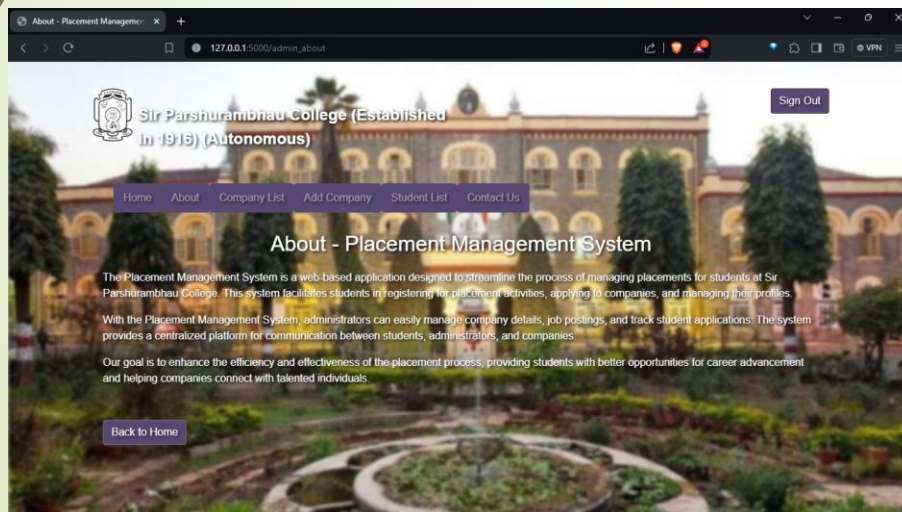
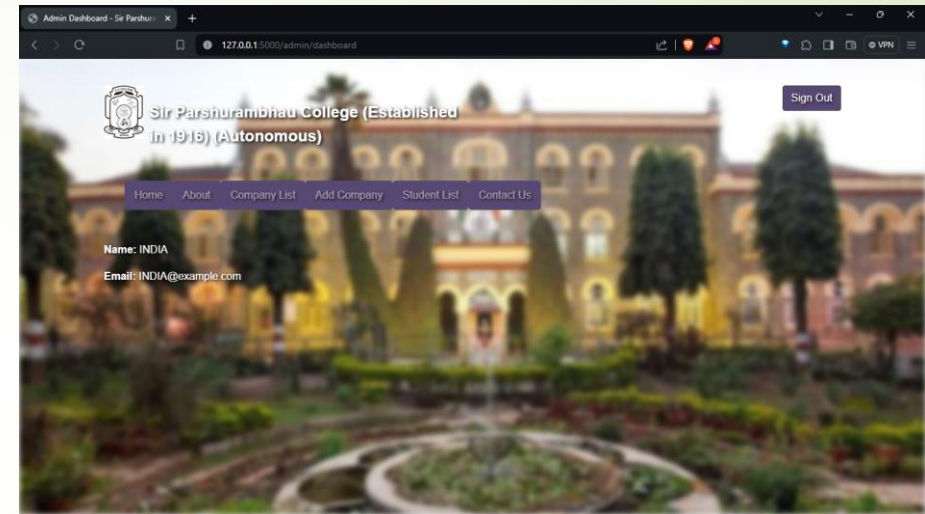
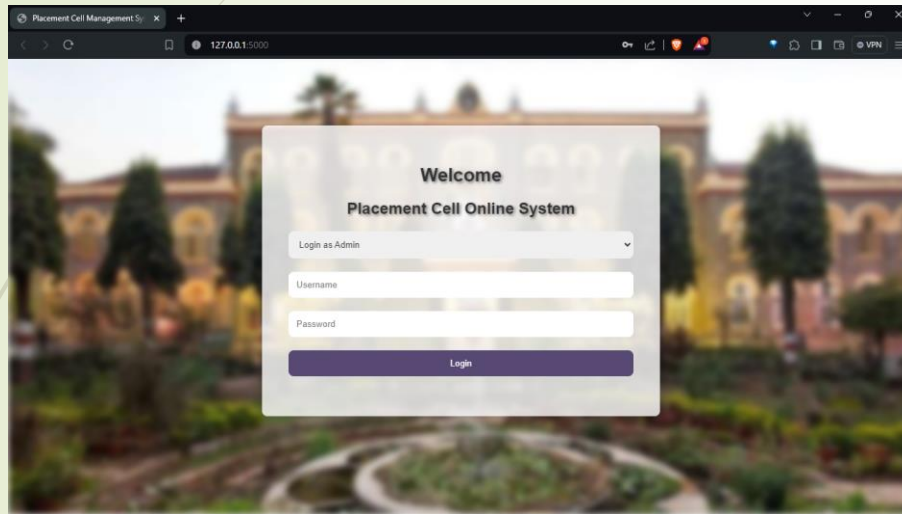
# Class diagram -





# User Interface – screens

## Admin login-



127.0.0.1:5000/admin/add\_company

### Add Company

Company Name

Industry

Job Location

Date

Venue


Salary

127.0.0.1:5000/admin/student\_list

### Student List

Sr. No	PRN	Name	CGPA	Interest	Applied Companies
1	AAFSDf123	Om Lakare	8.0	Testing, Support	None
2	asdasd123	Om Lakare	8.0	Development , Database Analyst	HCL, Capgemini, TCS, Mahindra, Capgemini, Accenture, Infosys
3	ASDASD123	Sanket Berad	4.0	asdasd	TCS, HCL, Capgemini, Mahindra, Capgemini, HCL
4	3322323	aditi a	9.0	Testing, Support	Infosys, HCL Tech
5	AdAd12345	Shruti Deshmane	8.0	DevOps	TCS, HCL, Capgemini, Mahindra, Infogain, Capgemini
6	ADAD1233	Tanaya Aghav	8.0	Development , testing	HCL, Capgemini, Mahindra, TCS, TCS
7	3312312	sakshi langote	6.0	Testing, Support	TCS, Capgemini
8	ASSFVB79	shradha kakade	9.0	testing	TCS, HCL, Mahindra, TCS

127.0.0.1:5000/admin\_contact

**Sir Parshurambhau College (Established In 1916) (Autonomous)**[Sign Out](#)

[Home](#) [About](#) [Company List](#) [Add Company](#) [Student List](#) [Contact Us](#)

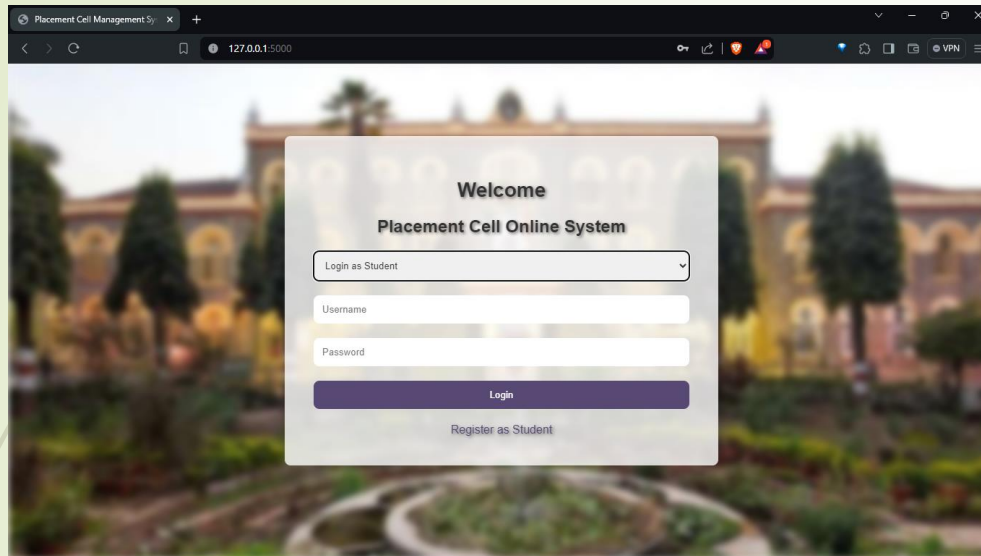
### Contact Us - Sir Parshurambhau College

**College Name:** Sir Parshurambhau College  
**Teacher Name:** admin  
**Email:** admin@example.com  
**Contact No.:** 123-456-7890

[Home](#)



# Student Login -



Placement Cell Management System

Welcome

Placement Cell Online System

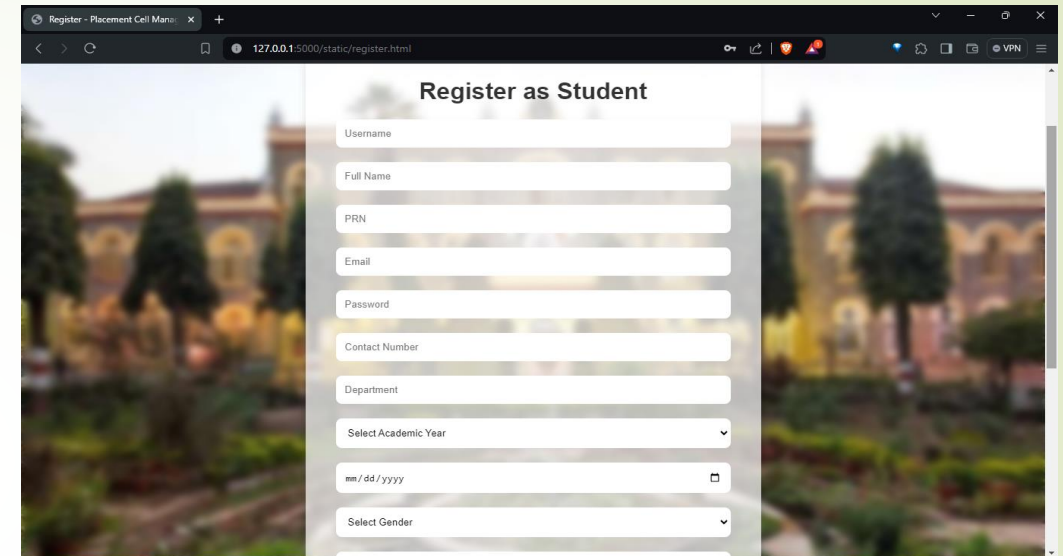
Login as Student

Username

Password

Login

Register as Student



Register as Student

Username

Full Name

PRN

Email

Password

Contact Number

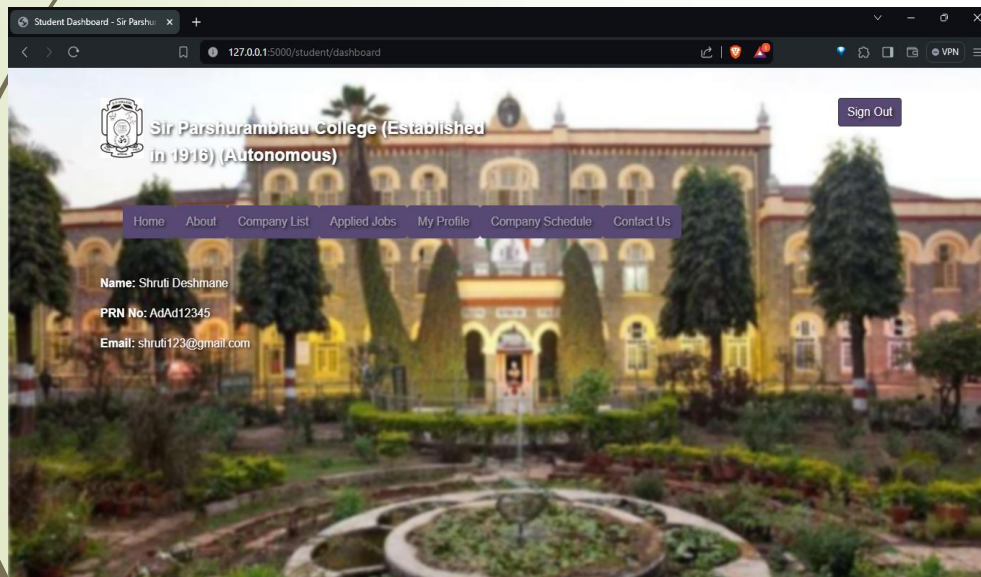
Department

Select Academic Year

mm/dd/yyyy

Select Gender

Sign Out



Sir Parshurambhau College (Established in 1916) (Autonomous)

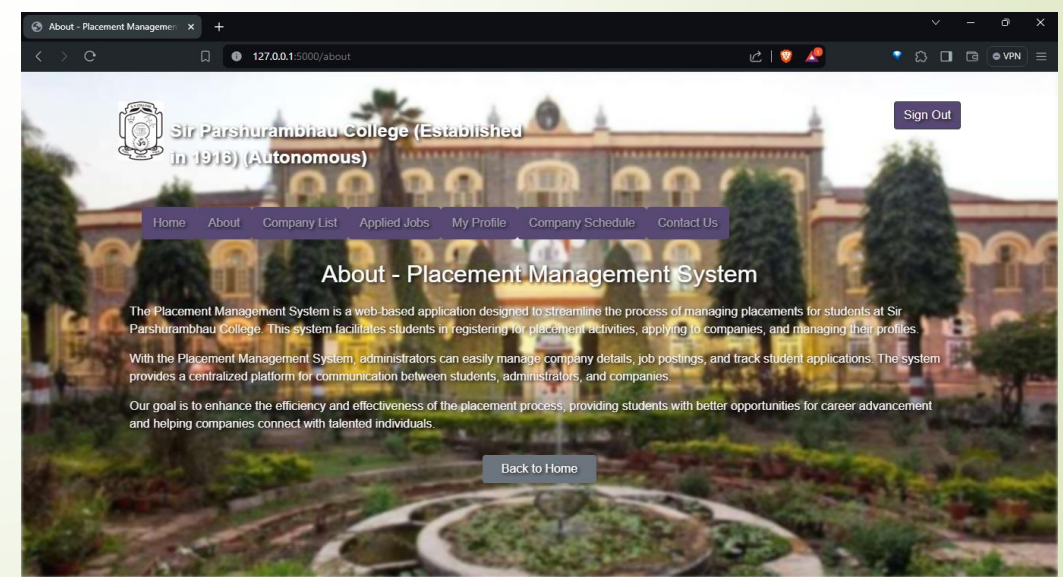
Sign Out

Home About Company List Applied Jobs My Profile Company Schedule Contact Us

Name: Shruti Deshmane

PRN No: AdAd12345

Email: shruti123@gmail.com



Sir Parshurambhau College (Established in 1916) (Autonomous)

Sign Out

Home About Company List Applied Jobs My Profile Company Schedule Contact Us

### About - Placement Management System

The Placement Management System is a web-based application designed to streamline the process of managing placements for students at Sir Parshurambhau College. This system facilitates students in registering for placement activities, applying to companies, and managing their profiles.

With the Placement Management System, administrators can easily manage company details, job postings, and track student applications. The system provides a centralized platform for communication between students, administrators, and companies.

Our goal is to enhance the efficiency and effectiveness of the placement process, providing students with better opportunities for career advancement and helping companies connect with talented individuals.

Back to Home

Company List

Company Name	Industry	Location	Salary	Role	Actions
Infosys	IT	Pune	5 LPA	Developer	<a href="#">Download PDF</a> <a href="#">Apply</a>
TCS	IT	Pune	7 LPA	Developer, Tester	<a href="#">Download PDF</a> <a href="#">Apply</a>
HCL Tech	IT	Mumbai	9.5 LPA	Tester, Support	<a href="#">Download PDF</a> <a href="#">Apply</a>
Adobe	Tech	Banglore	15 LPA	Developer	<a href="#">Download PDF</a> <a href="#">Apply</a>
Cognizant	IT	Pune	4.5 LPA	IT trainee	<a href="#">Download PDF</a> <a href="#">Apply</a>
Accenture	IT	Pune	4.5 LPA	IT trainee	<a href="#">Download PDF</a> <a href="#">Apply</a>
microsoft	it	pune	50000	testing	<a href="#">Download PDF</a> <a href="#">Apply</a>
bajaj	it	pune	15000	testing	<a href="#">Download PDF</a> <a href="#">Apply</a>

Applied Jobs

Sr.No	Company Name	Status
1	TCS	Applied
2	HCL	Applied
3	Capgemini	Applied
4	Mahindra	Applied
5	Infogain	Applied
6	Capgemini	Applied

[Back to Home](#)

View / Edit Profile

Student Details

Name  
Shruti Deshmane

Department  
Bcs

Email  
shruti123@gmail.com

Birthdate  
03/04/2024

Contact Number  
12342353465

Gender  
Male

Schedule

Sr.No	Company Name	Date
1	TCS	2024-03-25
2	HCL	
3	Capgemini	
4	Mahindra	
5	Infogain	
6	Capgemini	

[Back to Home](#)



# Test Cases

## User Registration:

Test student and administrator registration.

Verify that users cannot register with incomplete or invalid information.

Ensure that usernames and email addresses are unique.

## User Login:

Test user login with correct credentials.

Verify that users cannot login with incorrect credentials.

Check for proper redirection after login based on user roles.

## Profile Management:

Test updating student profiles.

Verify that changes are reflected correctly in the database.

Check for validation of input fields (e.g., email format, phone number format).

## Job Search and Application:

Test job search functionality for students.

Verify that students can view job details and apply for jobs.

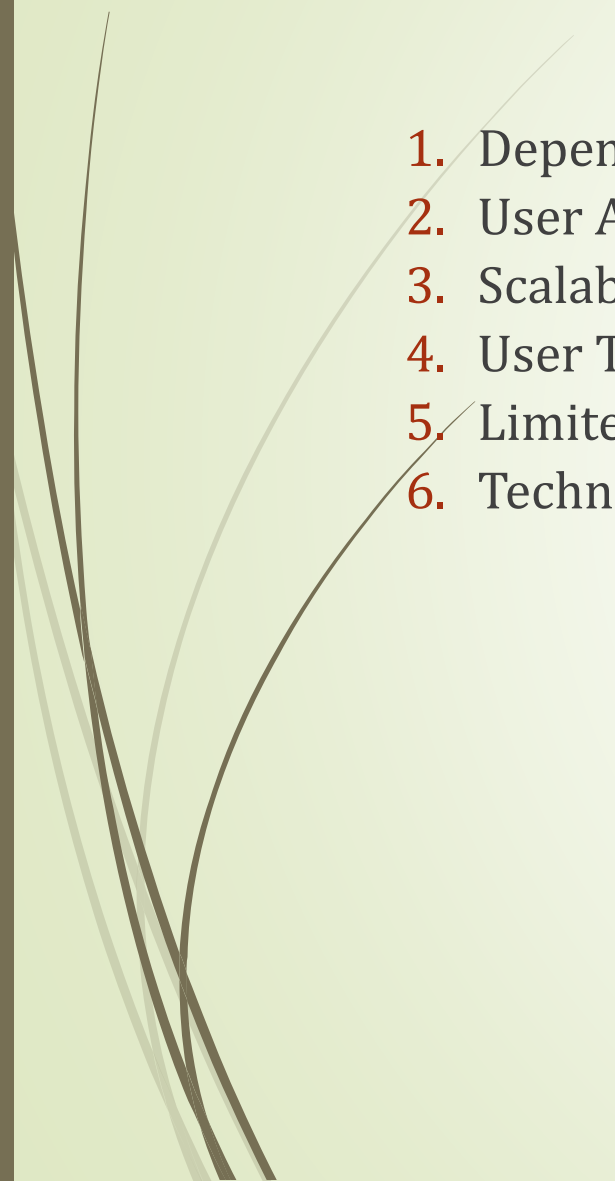
## Interview Scheduling:

Test scheduling interviews by admin.

Check for conflicts in interview schedules.



# Limitations

1. Dependency on Internet Connectivity
  2. User Adoption
  3. Scalability
  4. User Training
  5. Limited Customization
  6. Technical Support
- 



# Bibliography and References



1. Smith, J. (2021). "Design and Implementation of a Web-Based Placement Cell System." *International Journal of Computer Science and Information Technology*, 10(2), 45-60.
2. Davis, C., & Wilson, E. (2018). "Data Analytics and Predictive Modeling for Placement Cell Systems: A Case Study." *Journal of Data Science and Analytics*, 5(1), 20-35.
3. Sharma, P., & Gupta, S. (2015). "Enhancing User Engagement in a Placement Cell System through Gamification." *International Journal of Human-Computer Interaction*, 12(3), 301-315.
4. Youtube.com
5. Google.com
6. Wikipedia.com





# Conclusion

- The Placement Cell System project aims to streamline and automate the placement process for colleges and students. By implementing a web-based platform, the project facilitates efficient communication and interaction between stakeholders, enhances transparency, and improves overall placement outcomes.
  - The system's key features, including student and admin registration, job posting and application management, interview scheduling contribute to a more streamlined and effective placement process.
- 