CAMPUS PLACEMENT RECRUITMENT SYSTEM

By

Patel Tirthkumar Jagadishbhai(23MCA147)

Prajapati HarshKumar Sureshbhai(23MCA161)

Prajapati Tejaskumar Bharatbhai(23MCA164)

Under Guidance

of

Internal Guide

Ms. Kritika Pandey

Submitted to



Smt. Chandaben Mohanbhai Patel Institute of Computer Applications
CHARUSAT
Changa

Nov-Dec 2024



Accredited with Grade A+ by NAAC,
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Changa



SMT. CHANDABEN MOHANBHAI PATEL INSTITUTE OF COMPUTER APPLICATION

CONSTITUENT OF CHARUSAT



This is to certify that	
Mr. / Mrs	,
of	Class, Roll No
Exam No	has satisfactorily completed
his/her term work in,	
for the term ending in	20 /20 .
Date:	

Sign. of Faculty

Head of Department



SMT. CHANDABEN MOHANBHAI PATEL INSTITUTE OF COMPUTER APPLICATION

CONSTITUENT OF CHARUSAT



This is to certify that	
Mr. / Mrs	*
of	Class, Roll No
Exam No.	has satisfactorily completed
his/her term work in,	
for the term ending in	20 /20 .
Date:	

Sign. of Faculty

Head of Department



SMT. CHANDABEN MOHANBHAI PATEL INSTITUTE OF COMPUTER APPLICATION

CONSTITUENT OF CHARUSAT



This is to certify that	
Mr. / Mrs	
of	Class, Roll No
Exam No.	has satisfactorily completed
his/her term work in,	
for the term ending in $_$	20 /20 .
Date:	

Sign. of Faculty

Head of Department

Acknowledgement

Knowledge in itself is a continuous process. At this moment of our substantial enhancement, We rarely find words to express our gratitude towards those who were constantly involved with us.

The completion of any inter disciplinary project depends upon coordination, cooperation and combined efforts of several resources of knowledge, creativity, skill, energy and time. The work being accomplished now, we feel our sincerest urge to recall and knowledge through these lines, trying our best to give full credit wherever it deserves.

We would like to thank our project guide **Ms.** <u>Kritika Pandey</u>, I/C Principal **Dr. Dharmendra Patel** and I/C Dean **Dr. Sanskruti Patel** who advised and gave us moral support through the duration of our project. Without their constant encouragement we could not have been able to achieve what we have.

It's our good fortune that we had support and well wishes of many. We are thankful to all and those names which have been forgotten to acknowledge here but contributions have not gone unnoticed.

With Sincere Regards,

Patel Tirthkumar (23MCA147)

Prajapati HarshKumar (23MCA161)

Prajapati Tejaskumar (23MCA164)

Table of Contents

Sr. No		Subject	Page Number
1		Project Profile & Company Profile	1
2		Introduction to tools	3
3		System Study	10
	1.	Existing System	11
	2.	Proposed System	12
	3.	Scope of the Proposed System	13
	4.	Aim and Objective of the Proposed System	14
	5.	Feasibility Study	15
		Operational Feasibility	15
		Technical Feasibility	15
		Economical Feasibility	16
4		System Analysis	17
		Requirements Specification (along with System Modules)	18
		Use Case Diagram	20
		Activity Diagram	23
		Class Diagram	26
5		System Design	27
		Data Dictionary	28
		Screen Layouts	33
		Reports	52
6		System Testing	53
		Testing Strategies	54
		Test Cases	54
7		Future Enhancement	58
8		Bibliography/References	60
9		Reporting Report (to be collected from respective internal guide)	

Campus Placement Rec	eruitment System
PROJECT PROFIL	
Page 1 of 61	

Campus Placement Recruitment System

❖Project Profile

Project Name: Campus Placement Recruitment System

Type of Application: Web Application

Team Size: 3 PEOPLE

Project Description:- This Project is aimed at developing an web application for the training and

Placement Department of the College. The system is a web application that

can be accessed throughout the organization with proper login provide.

Front End: HTML, CSS, JAVASCRIPT

Back End: DJANGO

Database: SQLITE 3

Tools used: VISUAL STUDIO CODE

INTRODUCTION TO TOOLS
Page 3 of 61

❖Introduction to Tools

> Front End Tool:



HTML:

HTML stands for Hypertext Markup Language. It is the most basic language, and simple to learn and modify. It is a combination of both hypertext and markup language. It contains the elements that can change/develop a web page's look and the displayed contents. Or we can say that HTML creates or defines the structure of web pages. We can create websites using HTML which can be viewed on internet-connected devices like laptops, android mobile phones, etc. It was created by Tim Berners-Lee in 1991. The first version of HTML is HTML 2.0 which was published in 1999, and the latest version is HTML 5. We can save HTML files with an extension .html.

HTML, or **HyperText Markup Language** is the standard markup language used to create web pages. It is a combination of Hypertext and Markup language. The Hypertext defines the link between web pages, and Markup defines the text document within tags to structure the web pages.



CSS:-

- Cascading Style Sheets (CSS) is a style sheet language used for specifying the presentation and styling of a document
- written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML).
- CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
- CSS is designed to enable the separation of content and presentation, including layout, colors, and fonts.
- CSS file, which reduces complexity and repetition in the structural content; and enable the.
- CSS file to be cached to improve the page load speed between the pages that share the file and its formatting
- CSS files can help define font, size, colour, spacing, border and location of HTML information on a web page, and can also be used to create a continuous look throughout multiple pages of a website



JAVA SCRIPT:

JavaScript is an open-source programming language designed for creating web-centric applications. It is lightweight and interpreted which makes it much faster than other languages and is integrated with HTML making it easier to implement in web applications.

In this Introduction to JavaScript article, you will learn all about JavaScript, the backbone of web development, and understand what exactly this language is and why and how this language is used across various fields.

JavaScript is critical for web development, and if you've ever thought about choosing that career path, you'd surely have come across this language. And probably, that's why you are here in the first place.

- HTML is the structure of your page like the headers, the body text, any images you want to include. It basically defines the contents of a web page.
- CSS controls how that page looks (it's what you'll use to customize fonts, background colors, etc.).

> Back End Tool:



LDJANGO:-

- Django is a Python framework that makes it easier to create web sites using Python.
- Django takes care of the difficult stuff so that you can concentrate on building your web applications.
- Django emphasizes reusability of components, also referred to as DRY (Don't Repeat Yourself), and comes with ready-to-use features like login system, database connection and CRUD operations (Create Read Update Delete).
- Django is a high-level Python web framework designed for rapid, secure, and scalable web application development. It follows the Model-Template-View (MTV) architecture, allowing developers to focus on writing clean, reusable code. Django comes with powerful features like an admin interface, object-relational mapping (ORM) for database handling, robust security measures, URL routing, and built-in authentication. It's popular for creating complex websites quickly and efficiently, used by major companies like Instagram and Pinterest.

➤ Database:-



SQLITE 3:-

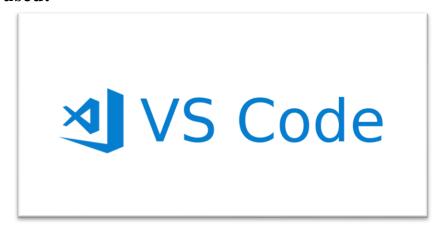
Oracle welcomes and encourages MySQL database users to download and display on their websites any of our Conditional Use Logos below. We take pride in our many enthusiastic users, and this is one of the most important ways to spread our message and software.

You do not need written permission from Oracle to use the MySQL Conditional Use logos on your website. The use is however subject to the Third Party Usage Guidelines for Oracle Trademarks, Third Party Usage Guidelines for Oracle Logos and the terms specifically applying to use of MySQL Conditional Use logos.

A written agreement with MySQL is needed before:

- displaying any MySQL logos except the Conditional Use Logos
- displaying any MySQL logos on printed products or elsewhere except on a website

> Tools used:



↓ VISUAL STUDIO CODE:-

Studio Code (VS Code) is a source code editor that helps developers build, debug, and run code. It's available for Windows, Linux, and macOS, and can also run in web browsers. Some of its features include:

Built-in support: VS Code comes with built-in support for JavaScript, TypeScript, and Node.js.

Extensions: VS Code has a large ecosystem of extensions for other languages and runtimes, such as C++, C#, Java, Python, PHP, and Go.

Integrated development environment: VS Code is an integrated development environment (IDE) that includes features like syntax highlighting, intelligent code completion, and snippets.

Cross-platform: VS Code runs on Windows, Linux, and macOS.

Version control: VS Code has embedded version control with Git.

	Campus Placement Recruitment System
SYSTEMS	STUDY
Page 10 of 61	

1. Existing System:-

- The existing system for managing the placement process is a manual process that involves a lot of paperwork, time, and effort. The placement department at the college typically manages this process by collecting and maintaining student data manually. This includes information about the student's personal details, academic background, and any other relevant information.
- The manual process is not only time-consuming, but it is also prone to errors and inaccuracies. Due to the volume of data being handled, the manual process increases the chances of errors, leading to inaccuracies and delays in the placement process.
- Moreover, managing the placement process manually makes it challenging to maintain confidentiality, as sensitive information can easily fall into the wrong hands. Also, it becomes difficult to track and monitor the progress of the placement process, resulting in missed opportunities for both the students and potential employers.

2. Proposed System:-

To design and implement a web-based placement management system. High-quality placements bring good benefits and positive impacts on students as well as for the colleges. During this process college finds it difficult and time-consuming to collect data from each student. In most cases they collect data manually. Working in a manual system in the colleges requires a lot of manpower and time.

The placement management system is an online application that can be accessed throughout the college and outside with proper login details. This system can be used as an application for the placement officer, Hod, faculty coordinator of the college to manage the student information with regards to placement. The student is able to upload their information. The web application is developed in laravel framework with Model-View-Template (MVT)

The system will be having different types of accounts for different types of users such as placement officers and coordinators, and students. A profile for each student is created with the necessary credentials for the portal. The system uses SQLite for database management and will sort the data of the student based on eligibility criteria demanded by the respective companies.

3. Scope of the Proposed System:-

The Student Campus Placement Recruitment System (CPRS) aims to automate the entire placement process for students in a college or university. The system will provide a secure and efficient platform for students to upload and manage their personal and educational information, ensuring fast and easy access to placement procedures and related activities while maintaining the confidentiality of student data.

The primary objective of CPRS is to provide a one-stop solution for managing the entire placement process, from registration to job offers. One of the key features of the project is its one-time registration enabled system, which will help to reduce repetitive tasks and streamline the entire placement process. The system will allow students to register once and then manage their personal and educational information throughout their academic career.

CPRS is a web-based system accessible to students from any device with an internet connection. It features a user-friendly interface for easy navigation. The system automates eligibility checks, streamlining the placement process and saving time. It also automates the entire placement process, from job postings to offers, ensuring efficiency, accuracy, and security. The placement department has a real-time dashboard for updates and tracking student performance. Students can access job listings, monitor application status, and receive career counseling. SIPMS aims to streamline the placement process, automate tasks, and provide students with career guidance.

4. Aim and Objective of Propose System:-

Create a centralized platform to manage the entire placement process, from job postings to final placement offers.

Maintain an organized database of students' academic qualifications, resumes, and other relevant details for easy access by the placement cell and recruiters.

Enable students to browse job openings and apply for them directly through the system, making the process more efficient.

Provide recruiters with tools to filter candidates based on qualifications, schedule interviews, and manage recruitment tasks within the platform.

Establish a communication platform where students, placement officers, and recruiters can interact easily, receive notifications, and be informed about updates.

Generate detailed reports on placement metrics, such as the number of students placed, company participation, student performance, andother key statistics.

Provide students with instant updates on job postings, deadlines, interview schedules, and results through notifications and alerts.

• Feasibility Study:-

i. Operational Feasibility:

The system should be user-friendly and intuitive for students, placement coordinators, and recruiters.

Placement officers and recruiters should be actively involved in defining the system requirements to ensure the system aligns with their needs.

Proper training sessions should be provided to students and staff to familiarize them with the system's features.

Adequate support should be in place for technical troubleshooting, maintenance, and system updates.

ii. Technical Feasibility:-

Modern technologies such as web development frameworks, databases (SQLite), and cloud services are readily available to build and host the system.

The system should be compatible with the educational institution's existing IT infrastructure, such as servers, networks, and devices (PCs, smartphones, etc.).

The development team should have the technical expertise required to implement and maintain the system, covering areas like web development, database management, and cybersecurity.

iii. Economical Feasibility:-

The costs of developing the system, including hardware, software, licensing, and developer fees.

Ongoing costs, such as server maintenance, system updates, and support staff salaries.

Increased efficiency in the recruitment process, reduced paperwork, faster placement cycle, improved placement rates, and potential savings on manual processes.

SYSTE	M ANALYSIS
	Page 17 of 61

REQUIREMENT SPECIFICATION:-

Hardware Specification :-

- **Processor**: Intel(R) Core(TM) i5-1035G1 CPU @ 1.00GHz 1.19 GHz
- **Installed RAM**: 8.00 GB (7.77 GB usable)
- **Hard Disk**: [Specify type, e.g., SSD or HDD] with a capacity of [Specify capacity, e.g., 256 GB or 512 GB].

♣System Modules :-

> Student Module:-

Students can create and update their profiles, including personal details, academic qualifications, skills, and upload their resumes. Students can search and filter job opportunities posted by recruiters based on criteria such as industry, role, location, and salary.

> Recruiter Module:-

View and manage student profiles, approve profiles for placement activities, and track student progress during the recruitment process. recruiters to post job opportunities, set application deadlines, and manage job descriptions.

> Coordinator Module:-

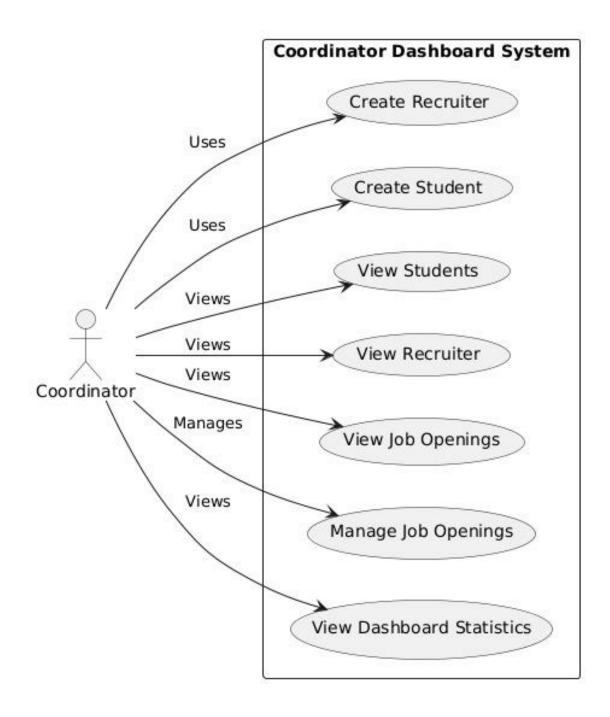
Coordinator can create and manage Recruiter and Student Profiles. and also add and manage job openings.

> Authentication and Authorization Module:-

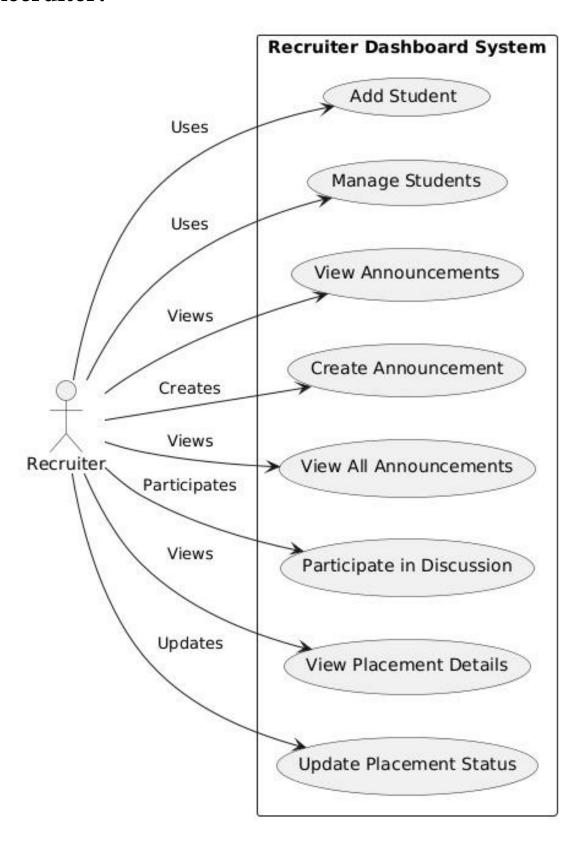
Different roles (student, admin/placement officer, recruiter) have different levels of access to the system's features and data. Secure login system with options for password recovery and multi-factor authentication for enhanced security.

USE CASE DIAGRAM:-

Coordinator:

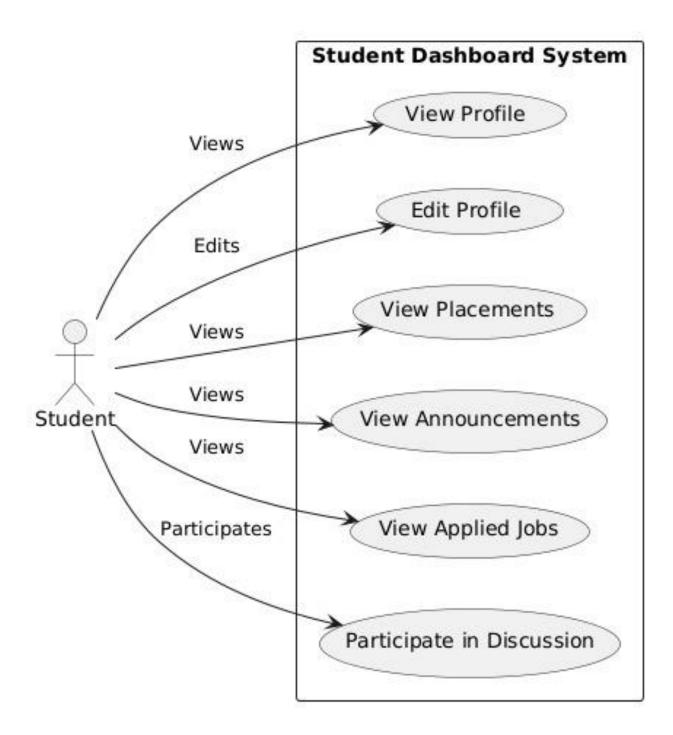


Recruiter:-



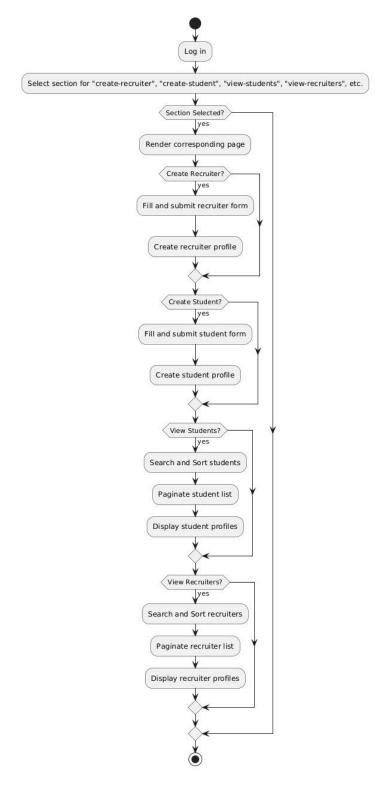
Page 21 of 61

Student:-



ACTIVITY DIAGRAM:-

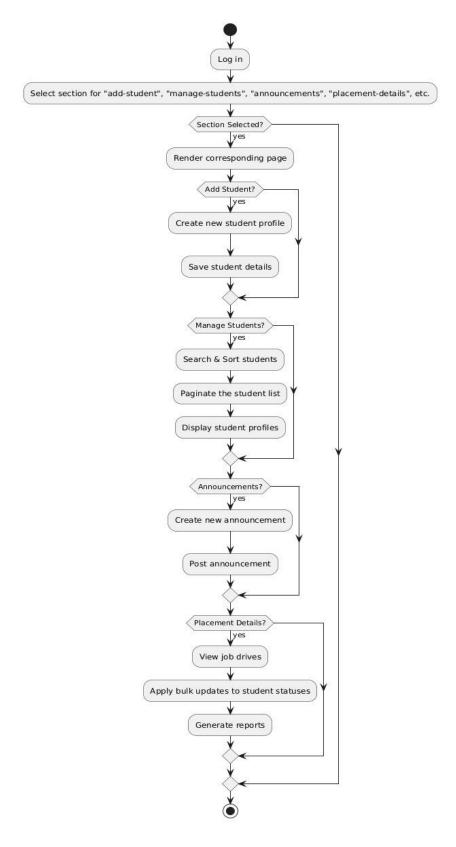
Coordinator:-



Page 23 of 61

Campus Placement Recruitment System

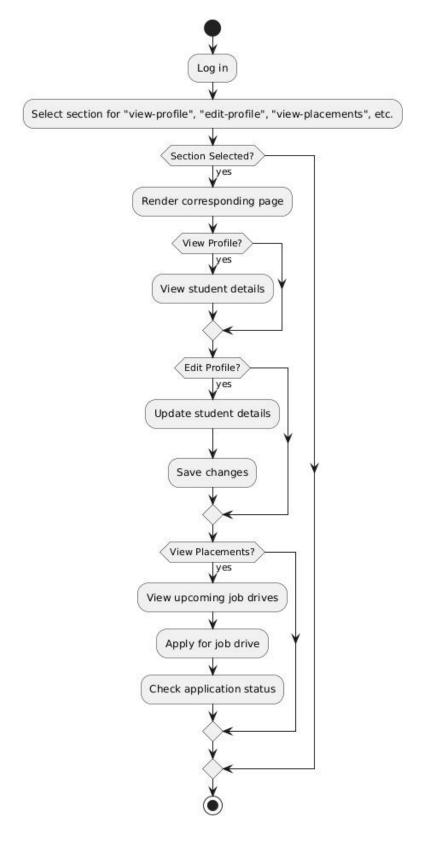
Recruiter:



Page 24 of 61

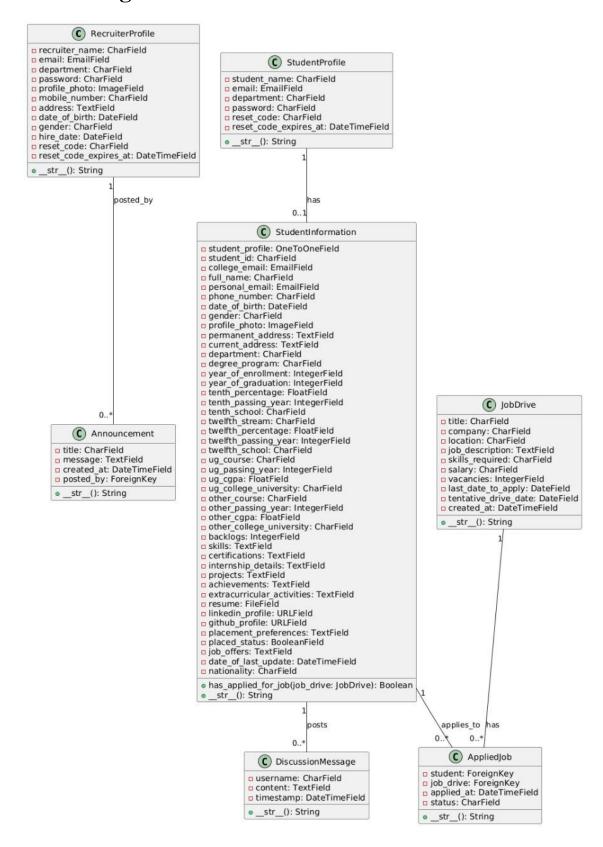
Campus Placement Recruitment System

Student:-



Page 25 of 61

Class Diagram:-



Page 26 of 61

SYSTEM DESIGN

DATA DICTIONARY:

1. Coordinator Profile:-

Field	Type	Description	Constraints
coordinator_name	CharField	Name of the coordinator (max 20 characters).	Blank allowed
email	EmailField	Unique email address of the coordinator.	Unique, max length 254
department	CharField	Department of the coordinator (max 50 characters).	Null and blank allowed
password	CharField	Password for the coordinator (max 100 characters).	Default set to None
profile_photo	ImageField	Profile photo of the coordinator.	Null and blank allowed
mobile_number	CharField	Mobile number of the coordinator (max 15 characters).	Null and blank allowed
address	TextField	Address of the coordinator.	Null and blank allowed
date_of_birth	DateField	Birth date of the coordinator.	Null and blank allowed
gender	CharField	Gender of the coordinator (choices: Male, Female, Other).	Null and blank allowed
hire_date	DateField	Date the coordinator was hired.	Null and blank allowed
reset_code	CharField	Reset code for password recovery (max 6 characters).	Null and blank allowed
reset_code_expires_at	DateTimeField	Expiration date and time of the reset code.	Null and blank allowed

2. Student Profile:-

Field	Type	Description	Constraints
student_name	CharField	Name of the student (max 100	Default set to
		characters).	None
email	EmailField	Unique email address of the student.	Unique, null
			allowed
department	CharField	Department of the student (max 50	Default set to
		characters).	None
password	CharField	Password for the student (max 128	Default set to
		characters).	None
reset_code	CharField	Reset code for password recovery	Null and blank
		(max 6 characters).	allowed

Campus Placement Recruitment System

reset_code_expires_at	DateTimeField	Expiration date and time of the reset	Null and blank
		code.	Allowed

3. Student Information:-

Field	Type	Description	Constraints
student_profile	OneToOneField	One-to-one relationship with StudentProfile.	On delete cascade
student_id	CharField	Unique student ID (max 50 characters).	Unique, null and blank allowed
college_email	EmailField	Unique college email of the student.	Unique
full_name	CharField	Full name of the student (max 200 characters).	Required
personal_email	EmailField	Personal email address of the student.	Null and blank allowed
phone_number	CharField	Phone number of the student (max 15 characters).	Null and blank allowed
date_of_birth	DateField	Birth date of the student.	Null and blank allowed
gender	CharField	Gender of the student (choices: Male, Female, Other).	Null and blank allowed
profile_photo	ImageField	Profile photo of the student.	Null and blank allowed
permanent_address	TextField	Permanent address of the student.	Null and blank allowed
current_address	TextField	Current address of the student.	Null and blank allowed
department	CharField	Department of the student (max 100 characters).	Required
degree_program	CharField	Degree program of the student (max 100 characters).	Null and blank allowed
year_of_enrollment	IntegerField	Year the student enrolled.	Null and blank allowed
year_of_graduation	IntegerField	Year the student is expected to graduate.	Null and blank allowed
tenth_percentage	FloatField	Percentage in 10th standard.	Null and blank allowed
tenth_passing_year	IntegerField	Passing year of 10th standard.	Null and blank allowed
tenth_school	CharField	School attended for 10th (max 200 characters).	Null and blank allowed
twelfth_stream	CharField	Stream in 12th standard (choices: Science, Commerce, Arts, Other).	Null and blank allowed

Campus Placement Recruitment System

twelfth_percentage	FloatField	Percentage in 12th standard.	Null and blank allowed
twelfth_passing_year	IntegerField	Passing year of 12th standard.	Null and blank
twelfth_school	CharField	School attended for 12th (max 200 characters).	allowed Null and blank allowed
ug_course	CharField	Undergrad course (max 100 characters).	Null and blank allowed
ug_passing_year	IntegerField	Passing year of undergrad.	Null and blank allowed
ug_cgpa	FloatField	CGPA in undergrad.	Null and blank allowed
ug_college_university	CharField	College/University attended for undergrad (max 200 characters).	Null and blank allowed
other_course	CharField	Other courses (max 100 characters).	Null and blank allowed
other_passing_year	IntegerField	Passing year of other courses.	Null and blank allowed
other_cgpa	FloatField	CGPA in other courses.	Null and blank allowed
other_college_university	CharField	College/University attended for other courses (max 200 characters).	Null and blank allowed
backlogs	IntegerField	Number of backlogs.	Default set to 0
skills	TextField	Skills of the student.	Null and blank allowed
certifications	TextField	Certifications earned by the student.	Null and blank allowed
internship_details	TextField	Details of internships undertaken.	Null and blank allowed
projects	TextField	Details of projects completed.	Null and blank allowed
achievements	TextField	Achievements of the student.	Null and blank allowed
extracurricular_activities	TextField	Extracurricular activities participated in.	Null and blank allowed
resume	FileField	Student's resume file.	Null and blank allowed
linkedin_profile	URLField	URL to the student's LinkedIn profile.	Null and blank allowed
github_profile	URLField	URL to the student's GitHub profile.	Null and blank allowed
placement_preferences	TextField	Job placement preferences of the student.	Null and blank allowed
placed_status	BooleanField	Status indicating if the student is placed.	Default set to False

job_offers	TextField	Details of job offers received.	Null and blank
			allowed
date_of_last_update	DateTimeField	Last update date and time of	Default set to
		student information.	timezone.now
nationality	CharField	Nationality of the student (max	Null and blank
		50 characters).	allowed

4. Job Drive:-

Field	Type	Description	Constraints
title	CharField	Title of the job drive (max 255	Required
company	CharField	characters). Company name (max 255 characters).	Required
location	CharField	Job location (max 255 characters).	Required
job_description	TextField	Description of the job.	Required
skills_required	CharField	Required skills for the job (max 255 characters).	Required
salary	CharField	Salary offered for the job (max 50 characters).	Required
vacancies	IntegerField	Number of vacancies available.	Default set to 0
last_date_to_apply	DateField	Last date to apply for the job.	Required
tentative_drive_date	DateField	Tentative date for the job drive.	Null and blank allowed
created_at	DateTimeField	Creation date and time of the job drive.	Auto now add

5. Announcement:-

Field	Type	Description	Constraints
title	CharField	Title of the announcement (max 255	Required
		characters).	
message	TextField	Announcement message.	Required
created_at	DateTimeField	Creation date and time of the	Default set to
		announcement.	timezone.now
posted_by	ForeignKey	Coordinator who posted the	On delete cascade
		announcement.	

6. Applied Job:-

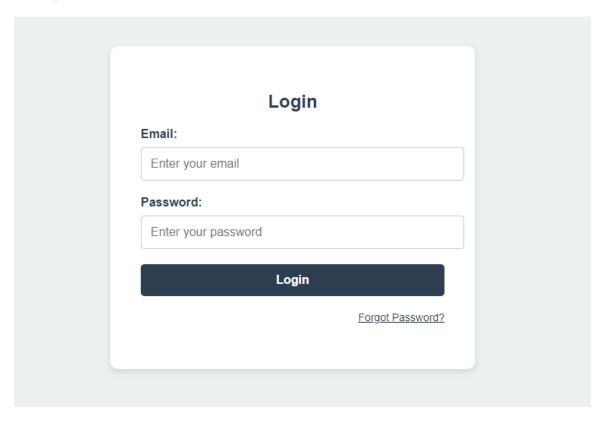
Field	Type	Description	Constraints
student	ForeignKey	Student applying for the job.	On delete
			cascade
job_drive	ForeignKey	Job drive the student applied to.	On delete
			cascade
applied_at	DateTimeField	Date and time when the student applied.	Auto now add
status	CharField	Current status of the application (choices:	Default set to
		Applied, Shortlisted, Selected, Rejected).	'applied'

7. Discussion Message:-

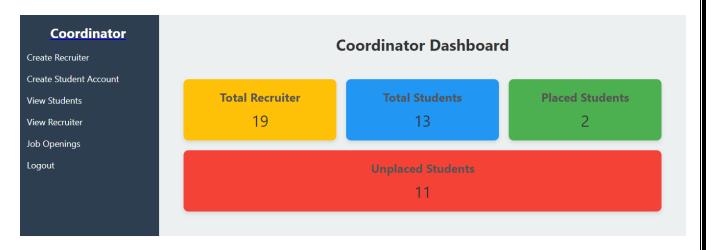
Field	Type	Description	Constraints
username	CharField	Username of the person posting the message (max 100	Required
		characters).	_
content	TextField	Content of the message.	Required
timestamp	DateTimeField	Date and time when the message was posted.	Auto now
			add

SCREEN LAYOUT:

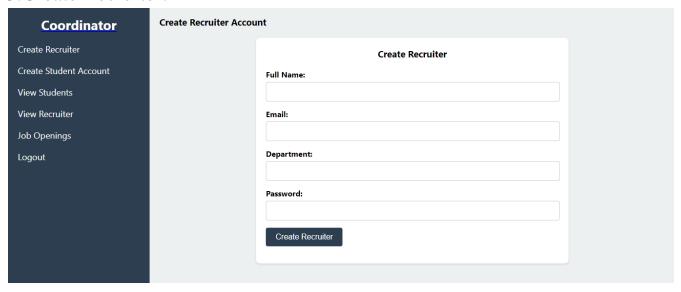
1.Login Form:-



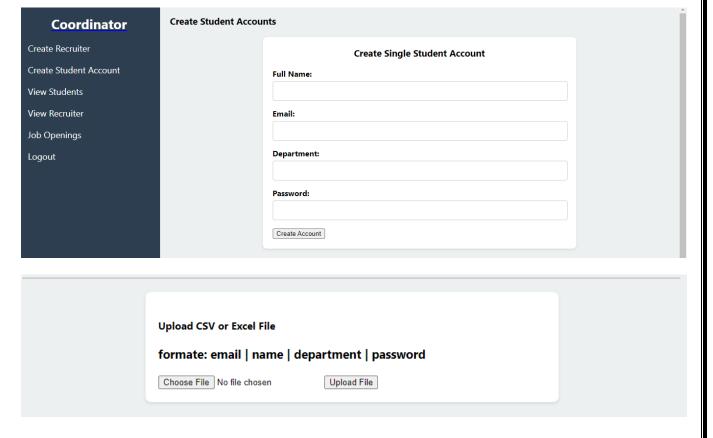
2. Coordinator Dashboard:-



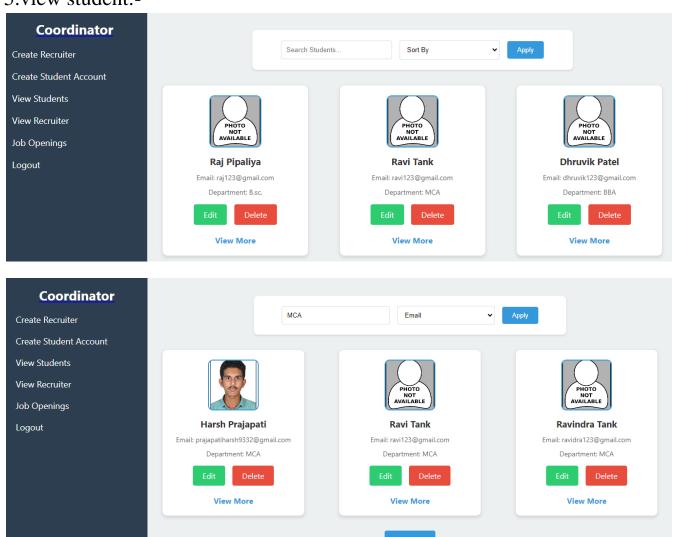
3. Create Recruiter:-



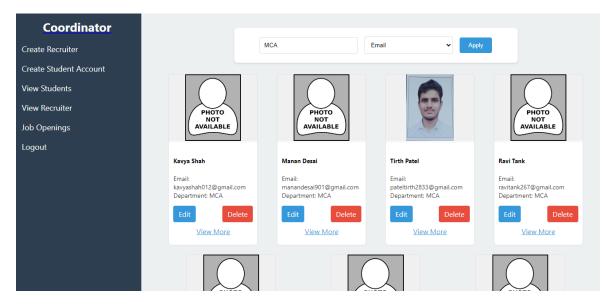
4. Create Student Account:-



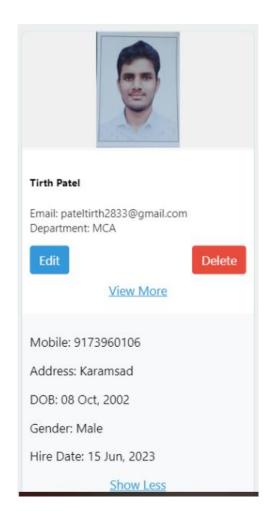
5.view student:-



6. Recruiter view:-

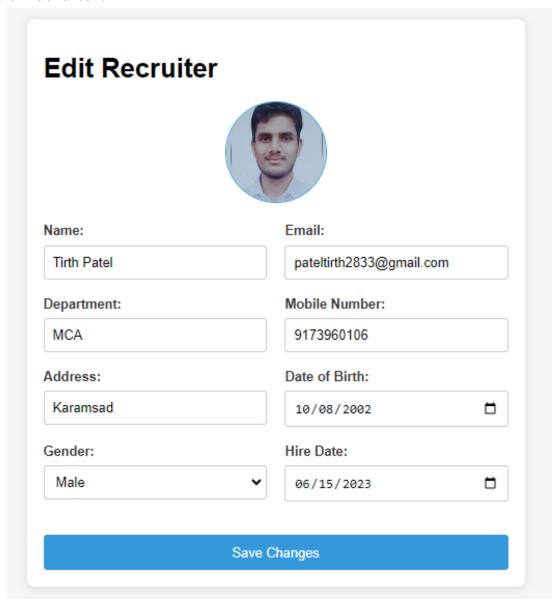


7.view more:-

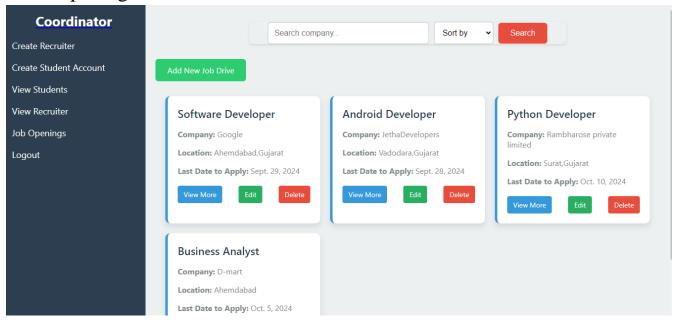


Page 36 of 61

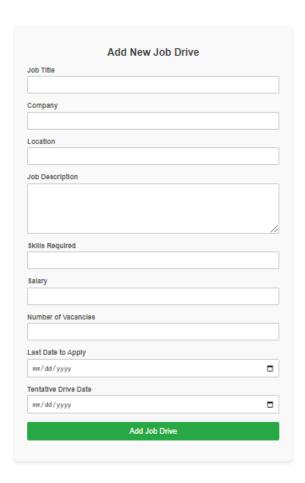
8.Edit Recruiter:-



9.Job Openings:-

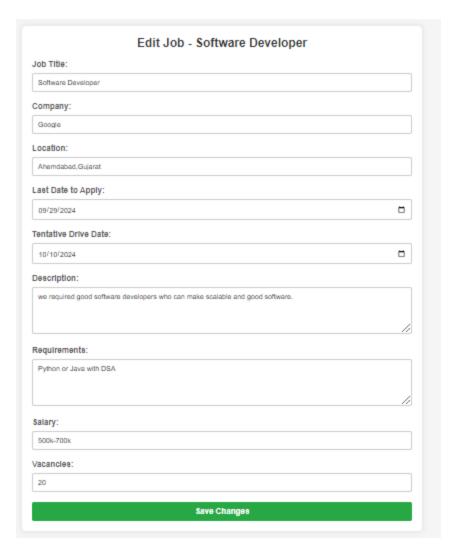


10.Add new job:-

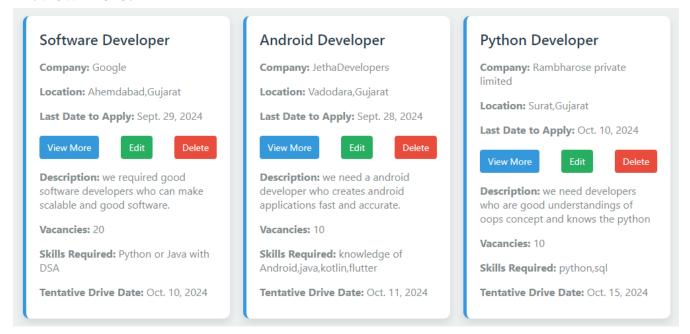


Page 38 of 61

11. Edit job:-



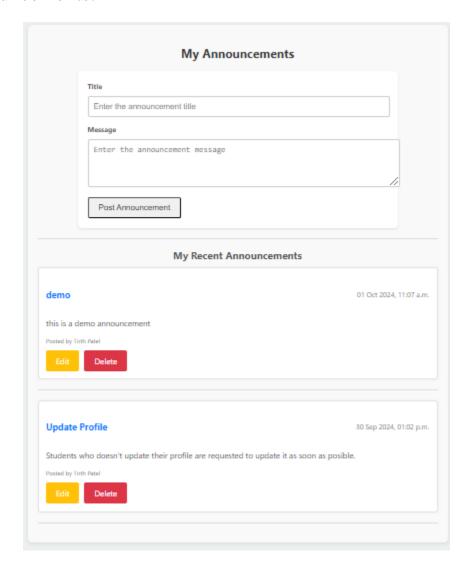
12.view more:-



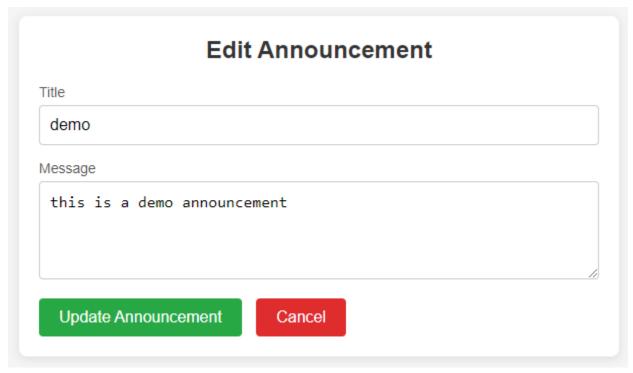
13.Recruiter Dashboard:-



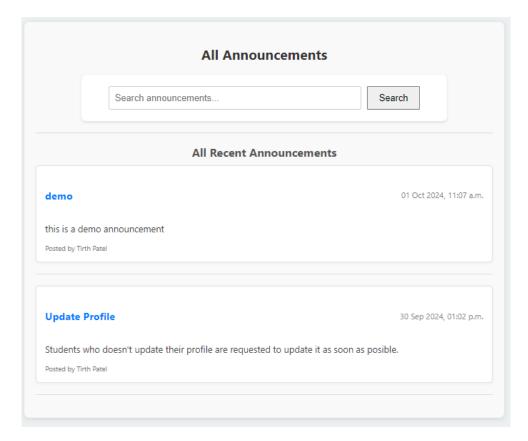
14. Announcements:-



15.Edit Announcement:-

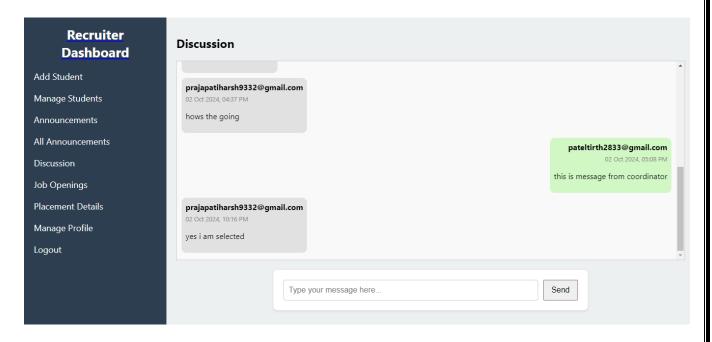


16. All Announcement:-

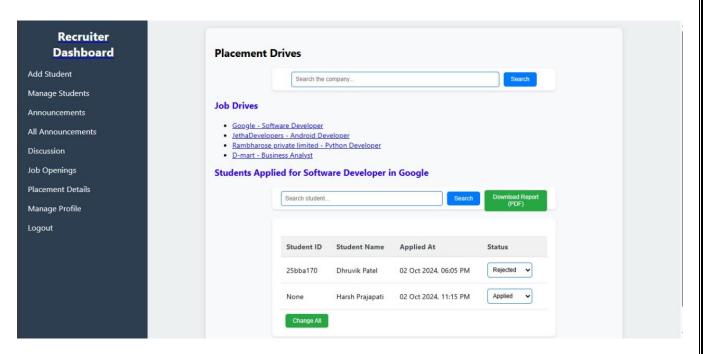


Page 42 of 61

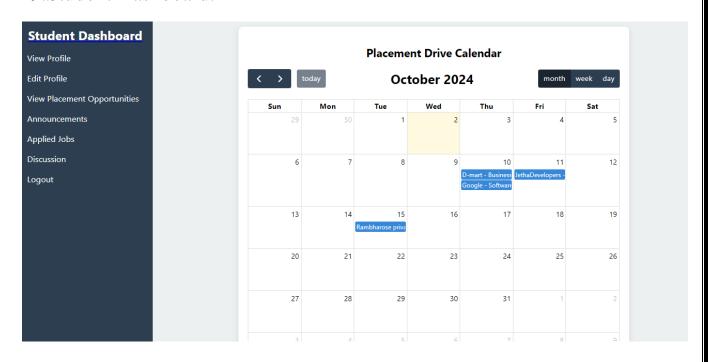
17.Discussion:-



18.Placement Drive:-



19.Student Dashboard:-



20.view profile:-



Harsh Prajapati

Email: prajapatiharsh9332@gmail.com Department: MCA

Personal Details

Date of Birth: July 1, 2003

Gender: Male

Phone Number: 9537257737 Permanent Address: None Current Address: None

Academic Details

Degree Program: None Year of Enrollment: 2022 Year of Graduation: 2024

Education 10th: Percentage: 74.0, Passing Year: 2018, School: None

Education 12th: Stream: Commerce, Percentage: 85.0, Passing Year: 2020, School: None

Backlogs: NA

Skills & Achievements

Skills: None

Certifications: None Internship Details: NA Projects: None Achievements: NA

Other Information

Resume: <u>Download</u> LinkedIn: <u>NA</u> GitHub: <u>NA</u>

Placement Preferences: None

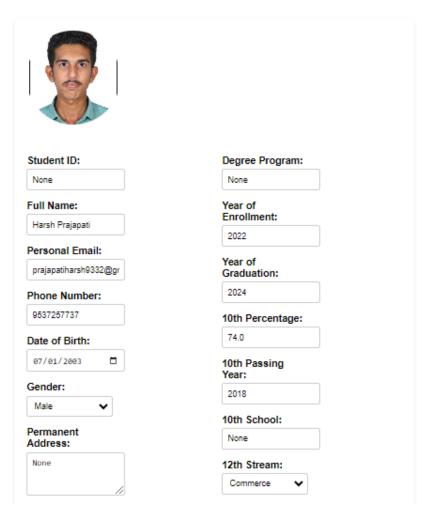
Placed Status: True

Job Offers: Rambharose private limited Date of Last Update: Oct. 2, 2024, 10:51 p.m.

Nationality: None

21.Edit profile:-

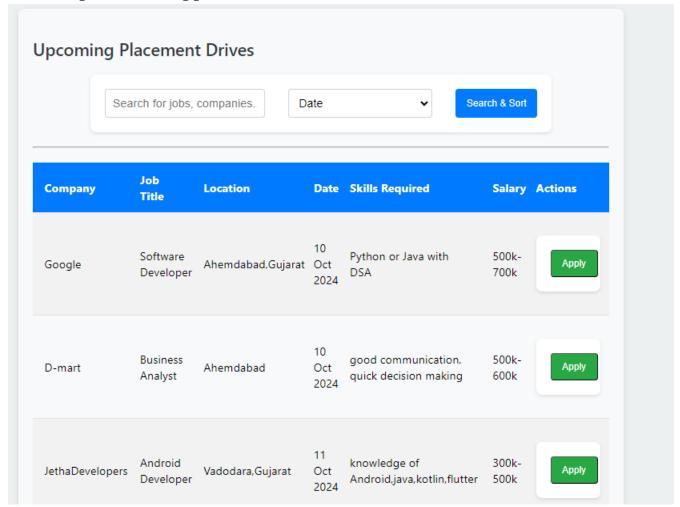
Edit Student Information



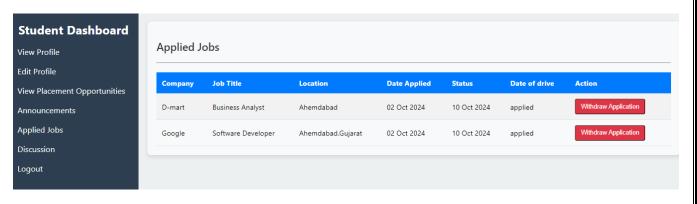
UG Course:	
None	
UG Passing Year:	
2022	
UG CGPA:	
8.2	
UG College/University:	
None	
Other Course:	
None	
Other Passing Year:	
0	
Other CGPA:	
0.0	
Other College/Universit	ty:
None	
Backlogs:	
0	
Skills:	
None	
Certifications:	
None	

Achievements: None Extracurricular Activities: Upload Resume (PDF) LinkedIn Profile: GitHub Profile: Placement Preferences: None Placed Status: True Job Offers: Rambharose private limited Nationality: None Save Changes

22.view placement opportunities:-

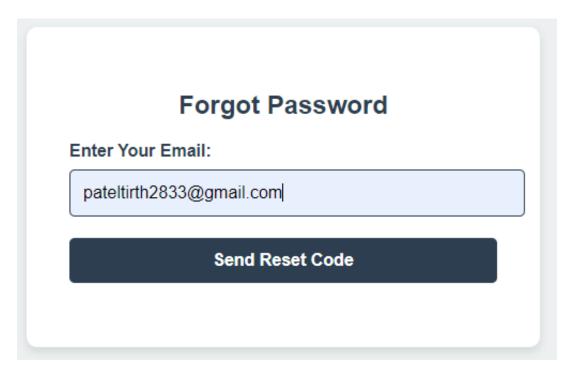


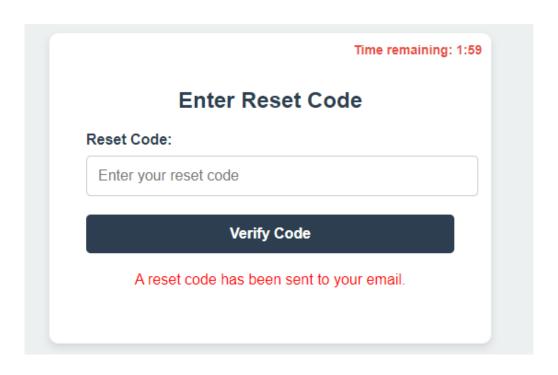
23. Applied jobs:-

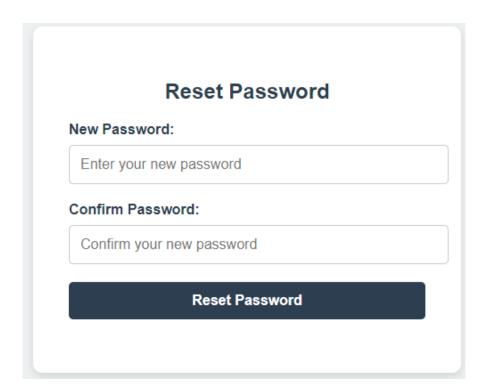


Page 49 of 61

24.Forgot Password:-







Report:-

Students Applied for Google

Dhruvik Patel (25bba170)

Details	Student Information
Mobile:	8745632198
Email:	dhruvik123@gmail.com
College Email:	dhruvik123@gmail.com
Address:	Karamsad
Department:	BBA
Placed Status:	Placed

Harsh Prajapati (23MCA161)

Details	Student Information
Mobile:	9537257737
Email:	prajapatiharsh9332@gmail.com
College Email:	prajapatiharsh9332@gmail.com
Address:	None
Department:	MCA
Placed Status:	Placed

Campus Placement Recruitment System
SYSTEM TESTING
Page 53 of 61

1. Coordinator Profile Testing:-

Test Case 1: Creating a new coordinator profile.

- o Precondition: Access to coordinator creation form.
- Steps: Submit the form with valid data for all fields.
- Expected Result: Coordinator profile should be saved and appear in the list of coordinators.

Test Case 2: Updating coordinator profile details.

- Precondition: Coordinator profile already exists.
- Steps: Update fields such as email, password, or profile photo.
- Expected Result: Updated coordinator profile should reflect changes in the system.

Test Case 3: Password reset functionality.

- o Precondition: Coordinator wants to reset the password.
- o Steps: Trigger password reset functionality (generate and verify reset code).
- Expected Result: Reset code should be generated, and the new password should work upon reset.

2. Student Profile and Information Testing:-

• Test Case 1: Creating a student profile.

- o Precondition: Valid data for a new student.
- Steps: Create a student profile and associated student information.
- Expected Result: Student profile and information should be saved and accessible in the database.

• Test Case 2: Editing student information (including educational details, contact, etc.).

- Precondition: Student profile exists.
- Steps: Edit fields such as phone number, address, and education details.
- o Expected Result: The changes should be reflected and saved in the database.

Test Case 3: Handling file uploads (profile photos and resumes).

- Precondition: Student profile exists.
- Steps: Upload profile photo and resume in the form.
- Expected Result: Uploaded files should be saved and linked to the student profile.

3. Job Drive Testing:-

Test Case 1: Creating a job drive.

- o Precondition: Job drive creation form.
- Steps: Submit a new job drive with valid details such as title, skills required, and last date to apply.
- Expected Result: Job drive should be listed and available for students to apply.

Test Case 2: Displaying a list of job drives.

- o Precondition: Job drives already exist in the system.
- Steps: Access the job drive listing page.
- Expected Result: All job drives should be listed, and clicking on a drive should display its details.

Test Case 3: Searching for job drives.

- o Precondition: Job drives exist with various company names.
- o Steps: Use the search feature to filter job drives by company or title.
- Expected Result: Job drives that match the search criteria should be displayed.

4. Job Application Testing (AppliedJob):-

Test Case 1: Applying for a job drive.

- o Precondition: Student is logged in, and job drives are available.
- Steps: Apply for a job drive.
- Expected Result: Job application status should be "applied," and the application should appear in the list of applied jobs.

Test Case 2: Updating job application status.

- o Precondition: Student has applied for a job.
- Steps: Change the application status to "shortlisted," "selected," or "rejected."
- Expected Result: The application status should be updated correctly in the system.

5. Announcement Testing:-

Test Case 1: Creating a new announcement.

- Precondition: Coordinator is logged in.
- Steps: Create a new announcement.
- Expected Result: Announcement should be visible to all relevant users (students or coordinators).

Test Case 2: Displaying announcements.

- o Precondition: Announcements exist in the system.
- Steps: Access the announcement listing page.
- Expected Result: All announcements should be displayed, with the latest at the top.

6. Discussion Message Testing:-

Test Case 1: Adding a new discussion message.

- o Precondition: Access to the discussion board.
- o Steps: Submit a new message to the discussion.
- Expected Result: The message should appear on the board with the correct timestamp and username.

• Test Case 2: Displaying discussion messages.

- o Precondition: Discussion messages already exist.
- Steps: View the discussion board.
- o Expected Result: All messages should be listed in chronological order.

7. General System Tests:-

Test Case 1: User authentication (login/logout).

- o Precondition: Valid coordinator and student profiles exist.
- Steps: Perform login and logout actions.
- Expected Result: Users should be able to log in and out with valid credentials.

Test Case 2: Handling validation errors (empty fields, invalid data).

- Precondition: Forms are filled out incorrectly.
- Steps: Submit forms with missing required fields or invalid data (e.g., invalid email).
- Expected Result: Validation errors should be displayed, and data should not be saved.

Test Case 3: Data integrity and uniqueness checks (e.g., unique email for students).

- Precondition: Attempt to create multiple students with the same email or job drives with the same title.
- Steps: Submit duplicate entries.
- Expected Result: The system should reject duplicate entries with appropriate error messages.

8. UI/UX Testing:-

Test Case 1: Responsiveness of the web pages.

- Precondition: Access the website from various devices (desktop, mobile, tablet).
- o Steps: Navigate through the website and interact with forms and data.
- Expected Result: The site should adjust correctly for different screen sizes without UI glitches.

Test Case 2: Cross-browser compatibility.

- o Precondition: Different browsers (Chrome, Firefox, Edge, etc.).
- Steps: Access the site from different browsers.
- Expected Result: The design and functionality should remain consistent across all browsers.

Campus Placement Recruitment Sy	/stem
FUTURE ENHANCEMEN	
Page 58 of 61	

1. AI-Powered Candidate Matching

- AI Algorithms: Implement AI algorithms to match students with job opportunities based on skills, academic performance, interests, and extracurricular activities.
- **Smart Recommendations**: Provide smart job recommendations to students and help recruiters identify the best-fit candidates.

2. Mobile Application

- **Mobile-Friendly Interface**: Create a mobile application that allows students and recruiters to access the system on the go, track recruitment activities, and receive push notifications.
- **On-the-Go Updates**: Students can get real-time updates on job postings, placement drives, and interview results directly on their smartphones.

Campus Placement Recruitment System
BIBLIOGRAPHY/ REFERENCES

Page **60** of **61**

BIBLIOGRAPHY:-

The Campus Placement Recruitment System project references The Definitive Guide to Django by Pollock & Holovaty (2009) and academic articles like Reddy's "A Comparative Study on Campus Placement Systems" (2019). Key resources include Django Documentation (2023), MDN Web Docs (2023), and tutorials like Traversy Media's Django Crash Course (2022).

REFERENCES:-

• For Python:-

https://docs.python.org/3/

https://www.w3schools.com/python/python

• For Django :-

https://docs.djangoproject.com/en/5.1/

https://developer.mozilla.org/en-US/docs/Learn/Server-

side/Django

https://www.geeksforgeeks.org/django-tutorial/

• HTML, CSS, JavaScript, Bootstrap.

https://getbootstrap.com/

https://www.w3schools.com/css/default.asp

https://www.w3schools.com/js/default.asp

https://www.w3schools.com/html/default.asp