



## **MCA SEMESTER III PROJECT REPORT**

SUBMITTED IN PARTIAL FULLFILLMENT  
OF THE REQUIREMENTS FOR  
THE AWARD OF THE DEGREE OF  
MASTER OF COMPUTER APPLICATIONS  
SCHOOL OF COMPUTING

**SUBMITTED BY,**

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# ACKNOWLEDGEMENT

We would like to express our sincere gratitude to everyone who supported us throughout the development of our project “*Corporate Recruitment System.*”

First, we extend our heartfelt thanks to our guide, **Prof. Sanjana Jayswal**, for providing constant guidance, valuable suggestions, and continuous encouragement during this project. Her insights and support have been extremely helpful in shaping this work.

We would also like to thank **JG University** for providing us with the opportunity and resources to carry out this project successfully.

A special thanks to my teammate **Sanjana Mevada**, whose dedication, hard work, and collaborative spirit made this project truly successful. Our teamwork and mutual understanding enabled us to execute every phase smoothly, and our strong bond ensured a positive and productive environment throughout.

I, **Dhruvi Bhayani**, would also like to acknowledge the support from the company where I am currently working as a **Trainee Software Developer**. The practical knowledge, technical exposure, and guidance provided by my company greatly helped me in implementing real-world features in this project. Their mentorship and encouragement played a key role in improving the quality of our work.

Finally, we express our appreciation to all classmates, friends, and faculty members who directly or indirectly contributed to the successful completion of this project.

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# INTRODUCTION

- ❖ The **Corporate Recruitment System** is a smart and efficient platform designed to streamline the hiring process within organizations.
- ❖ It allows companies to post job openings, receive online applications, and manage the entire recruitment cycle in one centralized system.
- ❖ The system brings **transparency and fairness** by providing equal opportunities for all applicants and ensuring unbiased recruitment.
- ❖ It maintains a **centralized database of applicants**, making future hiring faster and easier.
- ❖ Through **role-based access**, HR, Managers, and Admins can manage applications according to their responsibilities.
- ❖ With **automated application tracking**, candidates can follow their status (applied, shortlisted, interviewed, selected) in real-time.
- ❖ The system also improves the **candidate experience** by providing a simple and professional application process.
- ❖ Finally, it enables **reporting and analytics**, giving organizations insights into hiring trends, efficiency, and workforce planning.

# MODULES

There are three types of users in our system :

- ORGANIZATION
- JOB SEEKER
- VIEWER

ORGANIZATION	JOB SEEKER	VIEWER
Login	Register / Login	Register
Organization Registration	View All Job Openings	View All Open Jobs
Create Job	Apply for a Job	Search Jobs
Update / Close / Re-open Job	Upload Resume / Documents	View Job Details
View All Job Applications	View Application Status (Applied, Screening, Shortlisted, Interview, Selected, Rejected)	Contact Us
Manage Application Status (Applied → Screening → Shortlisted → Interview → Selected/Rejected)	Receive Application Status Notifications	Give Feedback
Shortlist Candidates	Update Profile (Skills, Summary, Resume)	
Schedule Interviews	Give Feedback	
Add Recruiter Notes		
Select / Reject Applications		
View Reports / Feedback		
View Candidate Profiles & Resumes		

# PROJECT PROFILE

## EXISTING SYSTEM :

- ❖ Recruitment is carried out manually or through basic job portals.
- ❖ Candidates apply via email or submit physical resumes.
- ❖ HR manually shortlists applications using spreadsheets.
- ❖ Communication (interview calls, updates) is done by phone or email.
- ❖ Records are stored in scattered files/folders, not centralized.
- ❖ Reporting and analysis of recruitment data is difficult.
- ❖ Time-consuming, error-prone, and lacks transparency.

## PROPOSED SYSTEM :

- ❖ Fully automated **Corporate Recruitment System**.
- ❖ Candidates can register, create profiles, and apply for jobs online.
- ❖ Centralized database stores candidate and job information.
- ❖ HR/Admin can easily post jobs, shortlist candidates, and schedule interviews.
- ❖ Role-based access (Admin, HR, Employee, Candidate).
- ❖ Real-time application status tracking for candidates.
- ❖ Automatic email/SMS notifications for updates.
- ❖ Generates detailed reports and analytics for better decision-making.
- ❖ Saves time, reduces errors, and increases transparency.

# DEVELOPMENT TOOLS & TECHNOLOGY

## FRONTEND :

- HTML5
- CSS3
- BOOTSTRAP5
- JAVASCRIPT
- ReactJS

## BACKEND :

- Node.js
- MySQL

## TOOLS :

- VS Code
- Postman
- GitHub
- Draw.io
- MS Word
- MS PowerPoint

## **MINIMUM HARDWARE REQUIREMENT :**

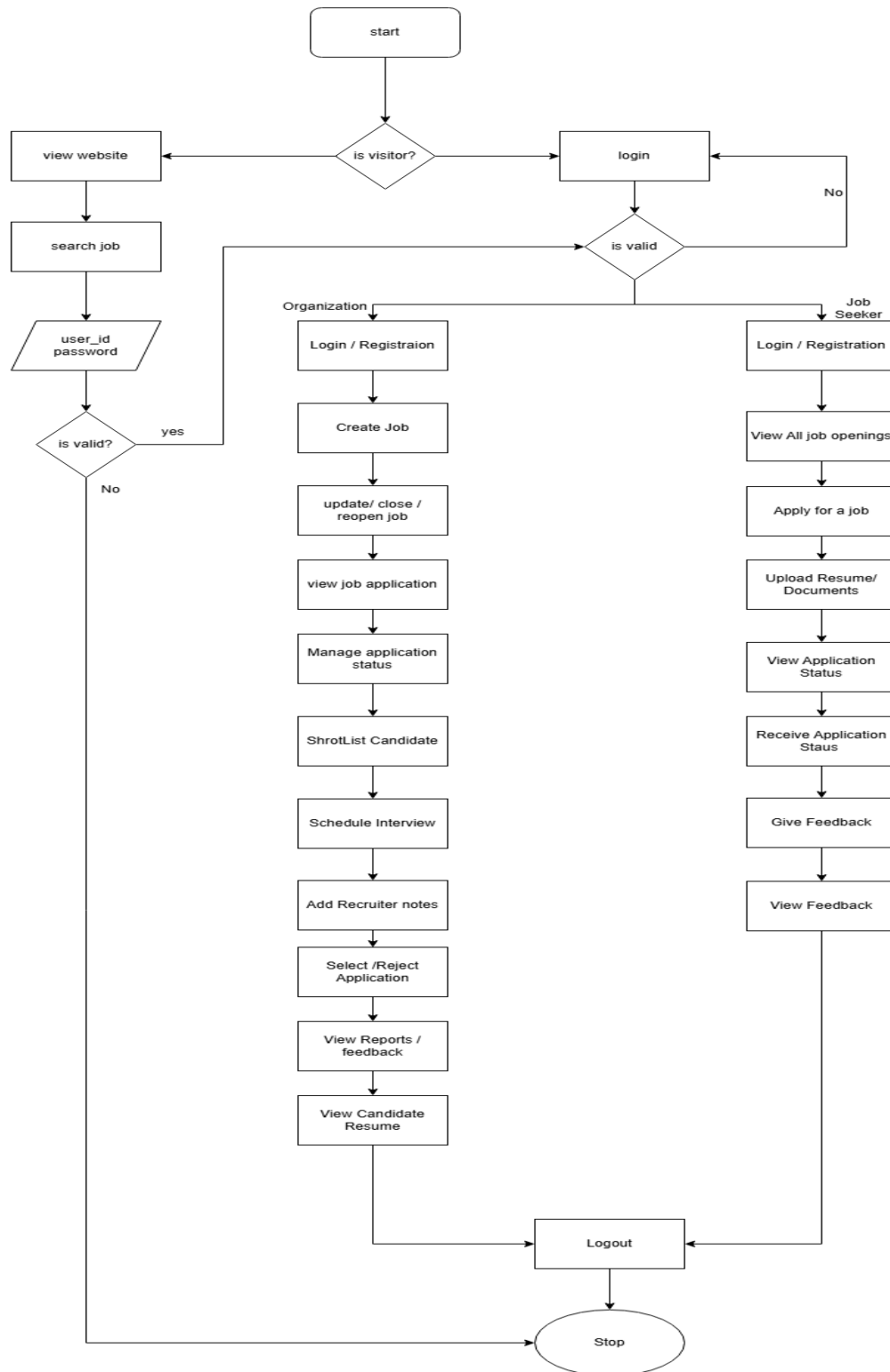
- PROCESSOR: 32-BIT OPERATING SYSTEM
- SPEED: 1GHZ CPU AND ABOVE
- RAM: 4GB
- HARD-DISK SPACE: 500 MB DISK SPACE

## **MAXIMUM SOFTWARE REQUIREMENT :**

- OPERATING SYSTEM: WINDOWS 10/11
- BROWSER: GOOGLE CHROME, MOZILLA FIREFOX, Edge,  
LATEST VERSION
- DATABASE: MYSQL

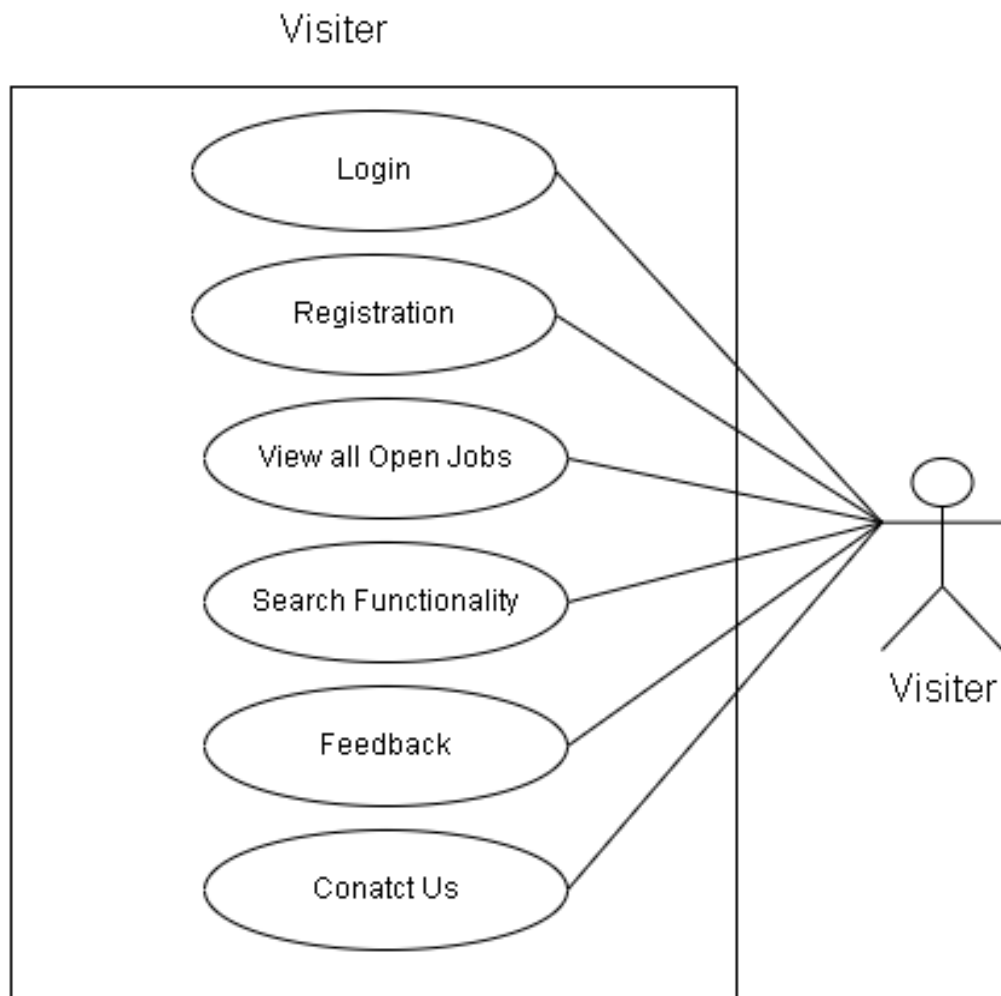


# SYSTEM FLOW DIAGRAM

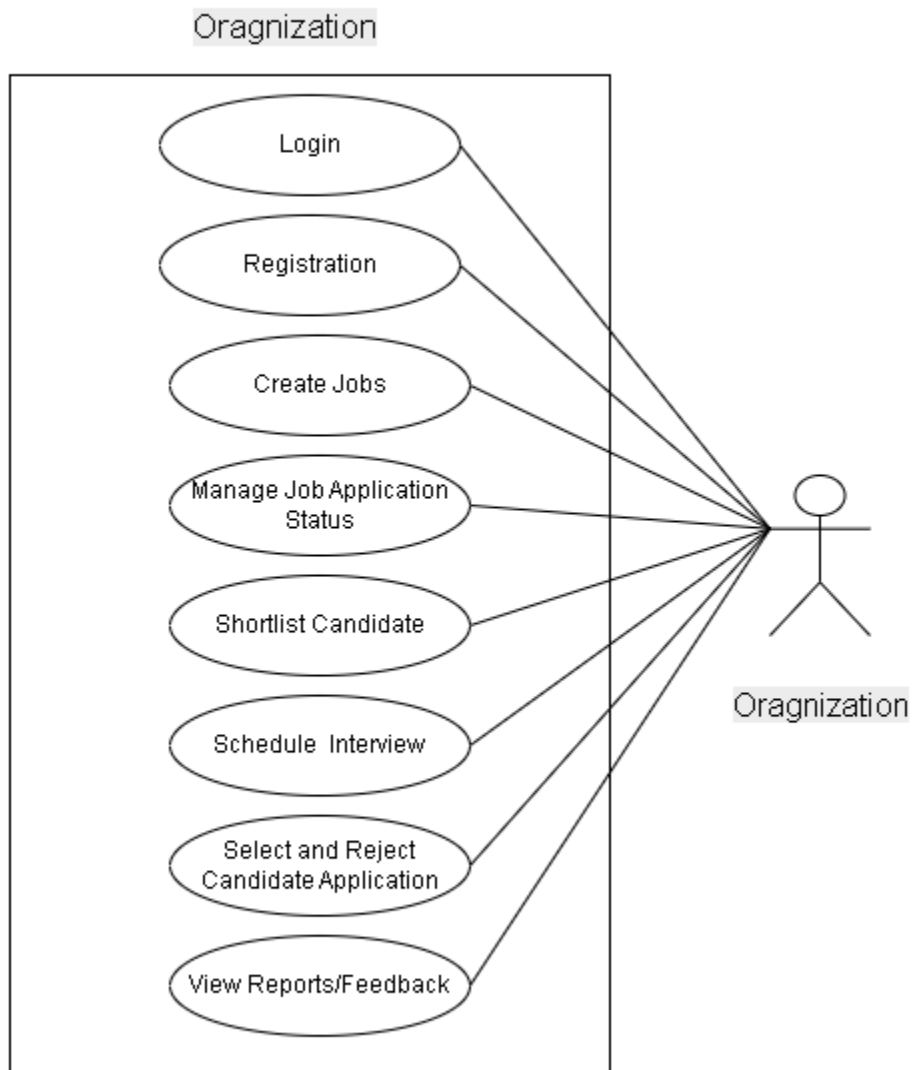


# USE-CASE DIAGRAM

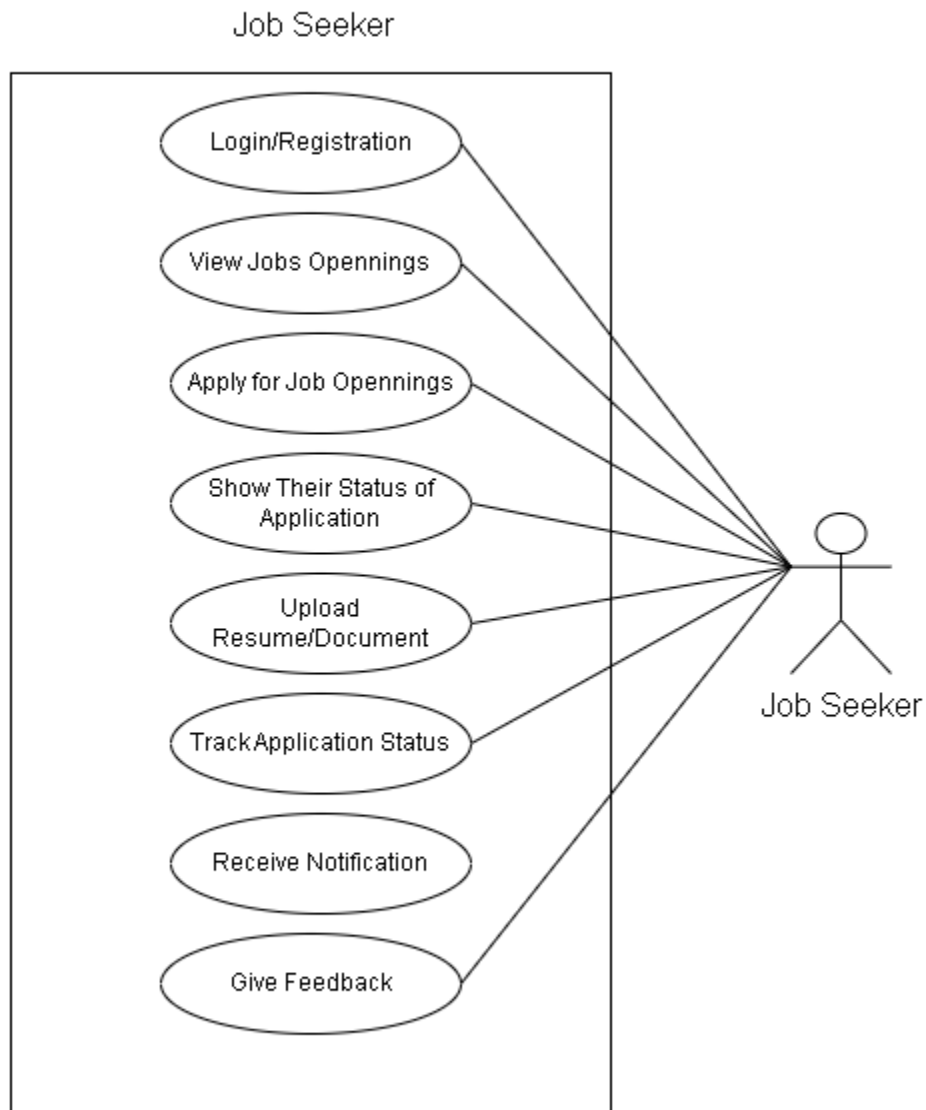
## USE-CASE FOR VISITOR



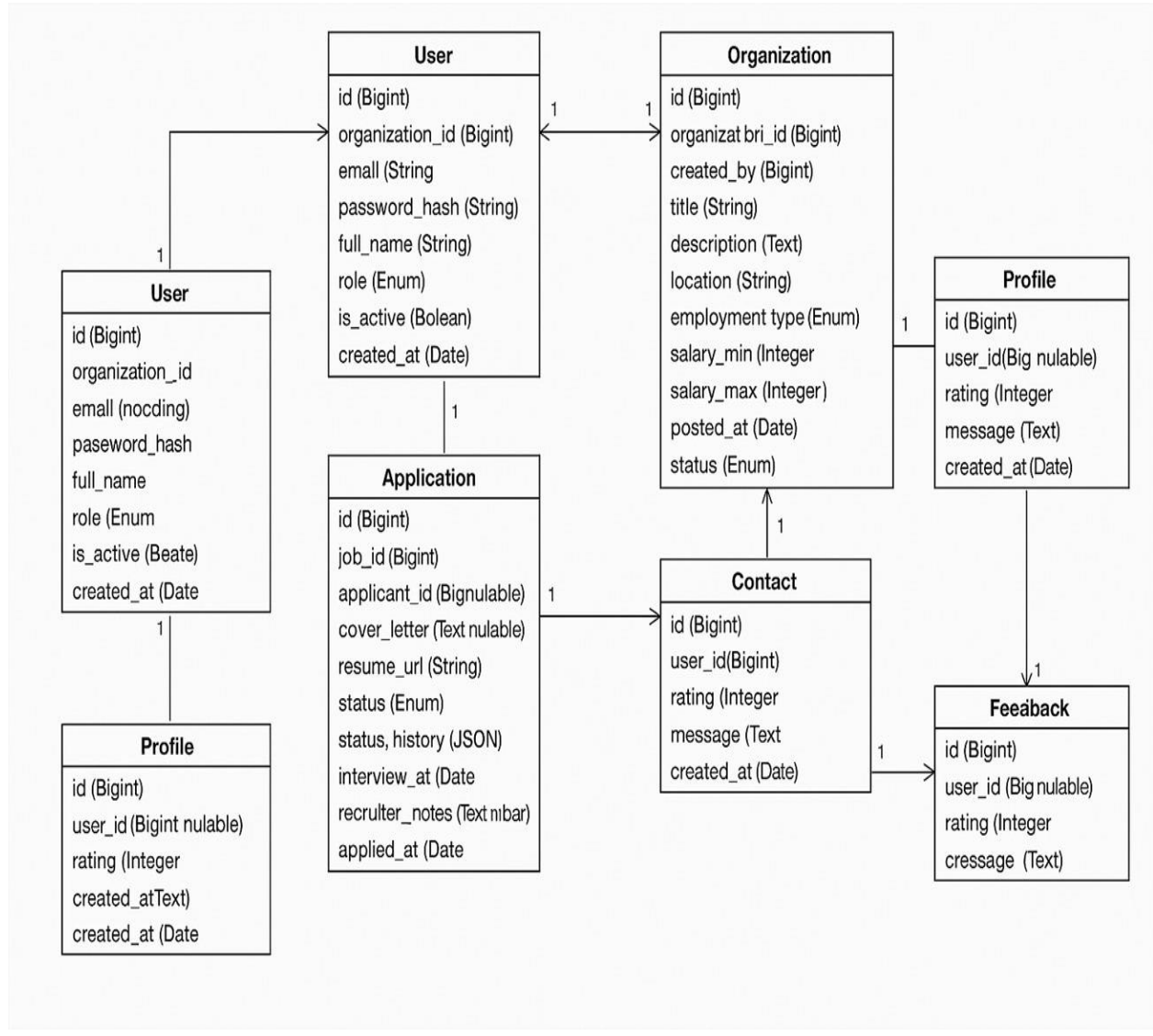
# USE-CASE FOR ORGANIZATION



# USE-CASE FOR A JOB SEEKER

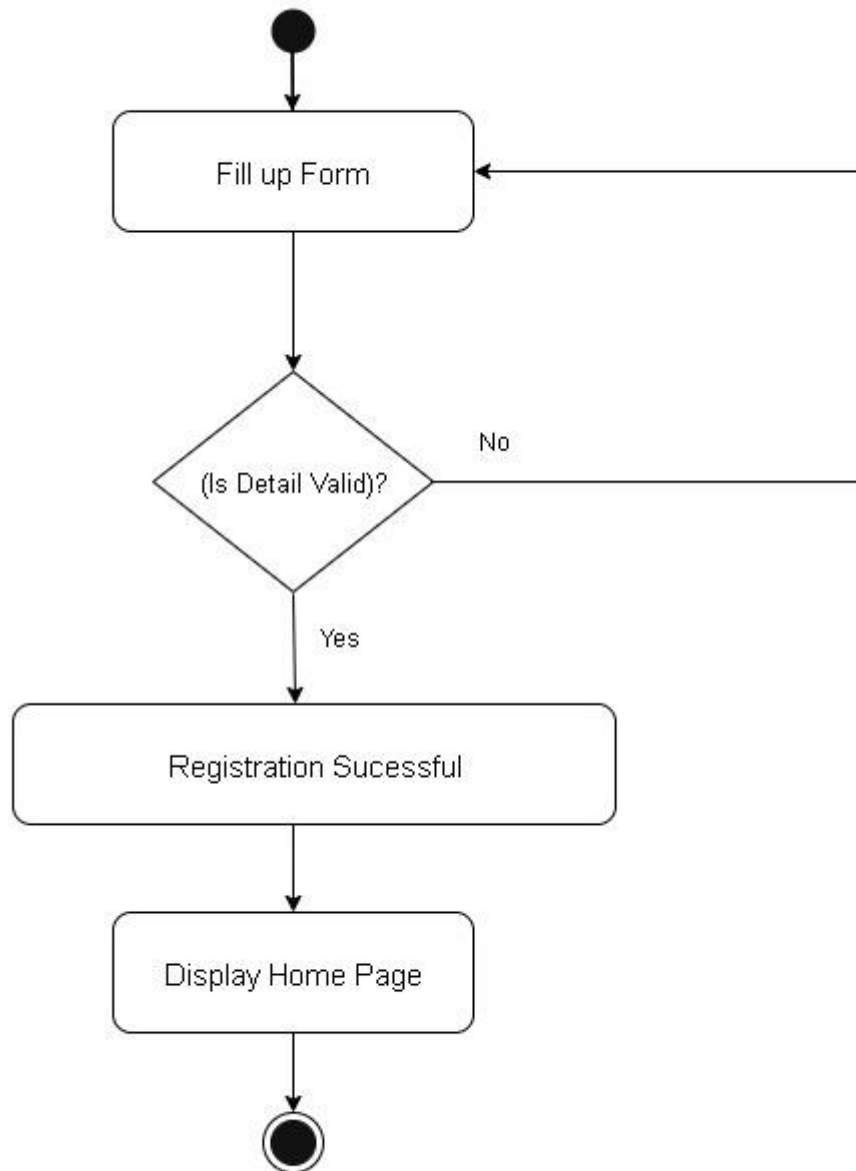


# CLASS DIAGRAM

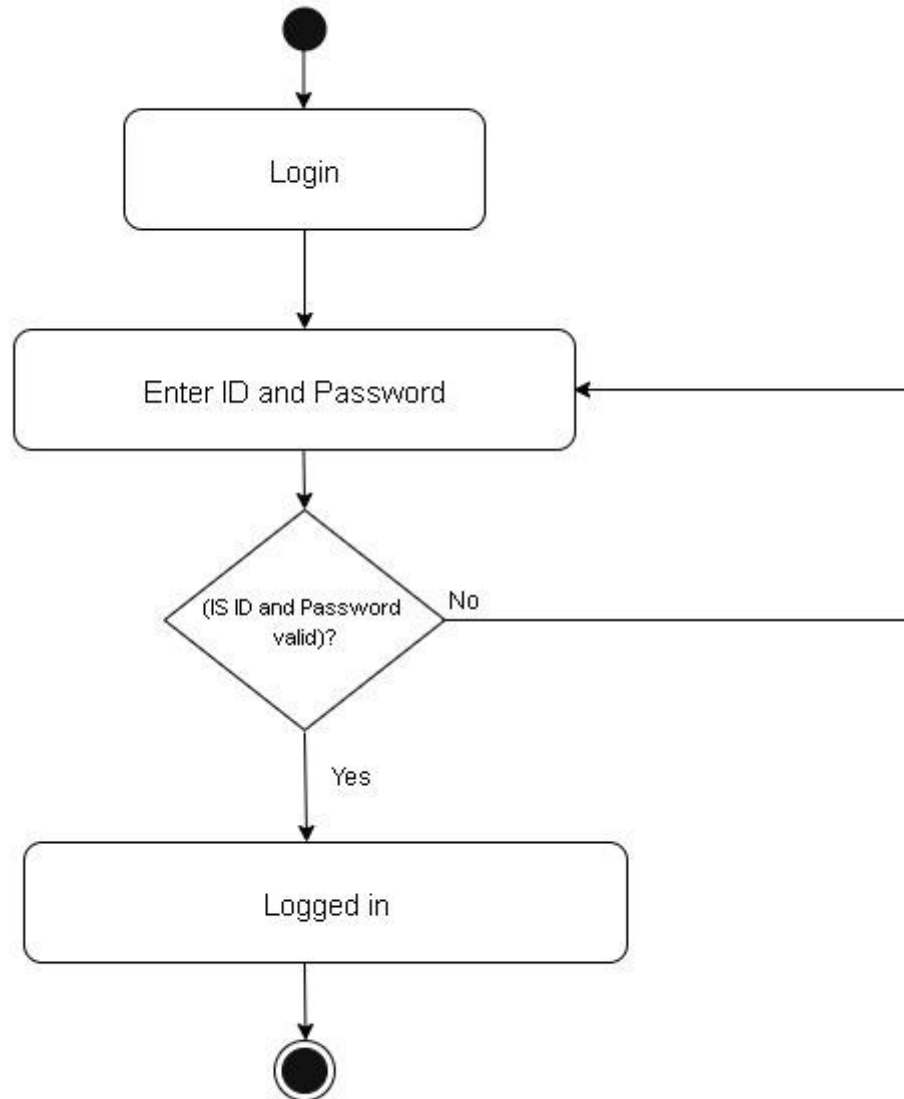


# ACTIVITY DIAGRAM

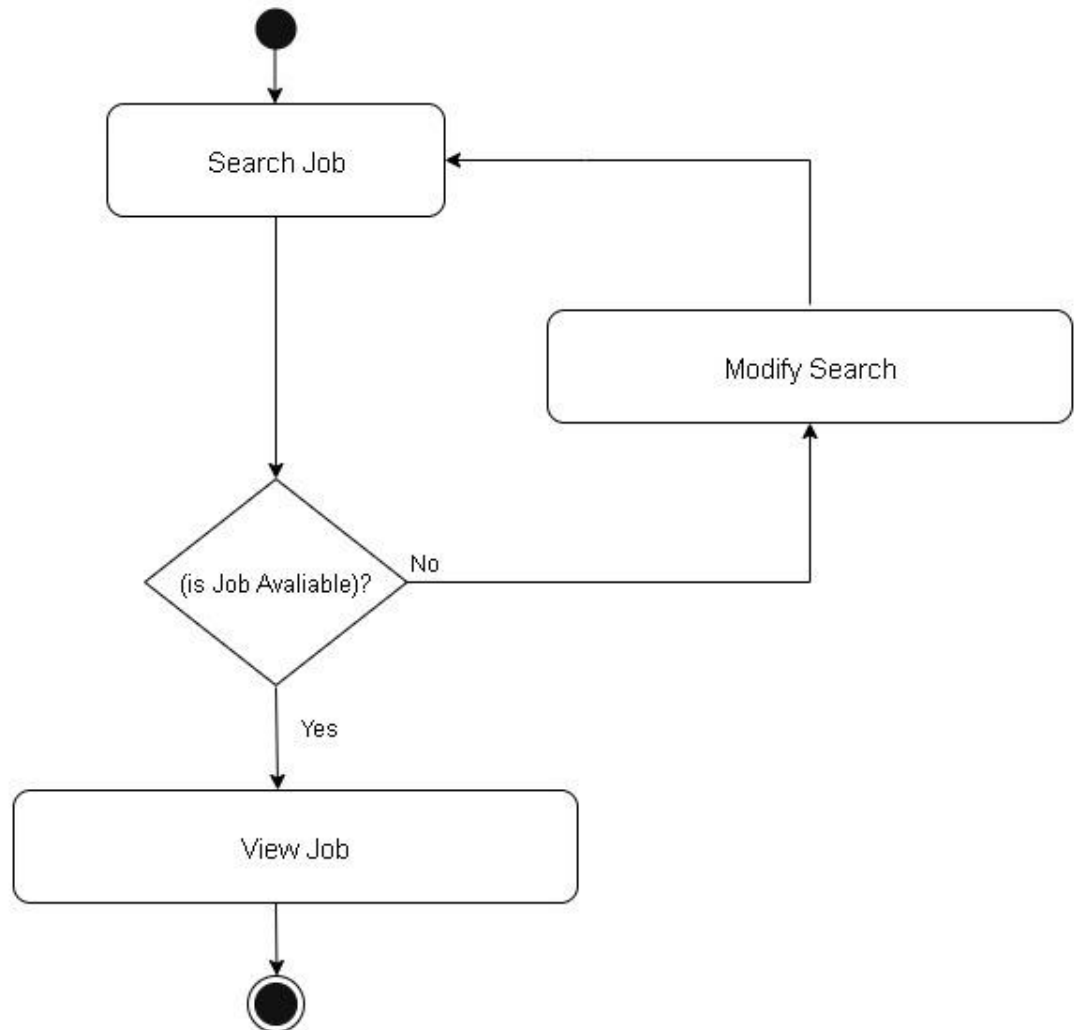
## ❖ ACTIVITY FOR REGISTRATION



## ❖ ACTIVITY FOR LOGIN

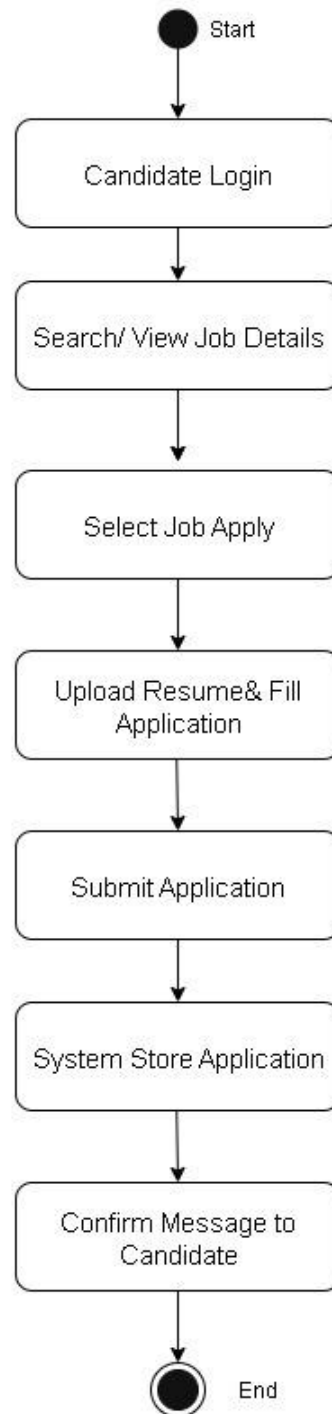


## ❖ ACTIVITY FOR SEARCH

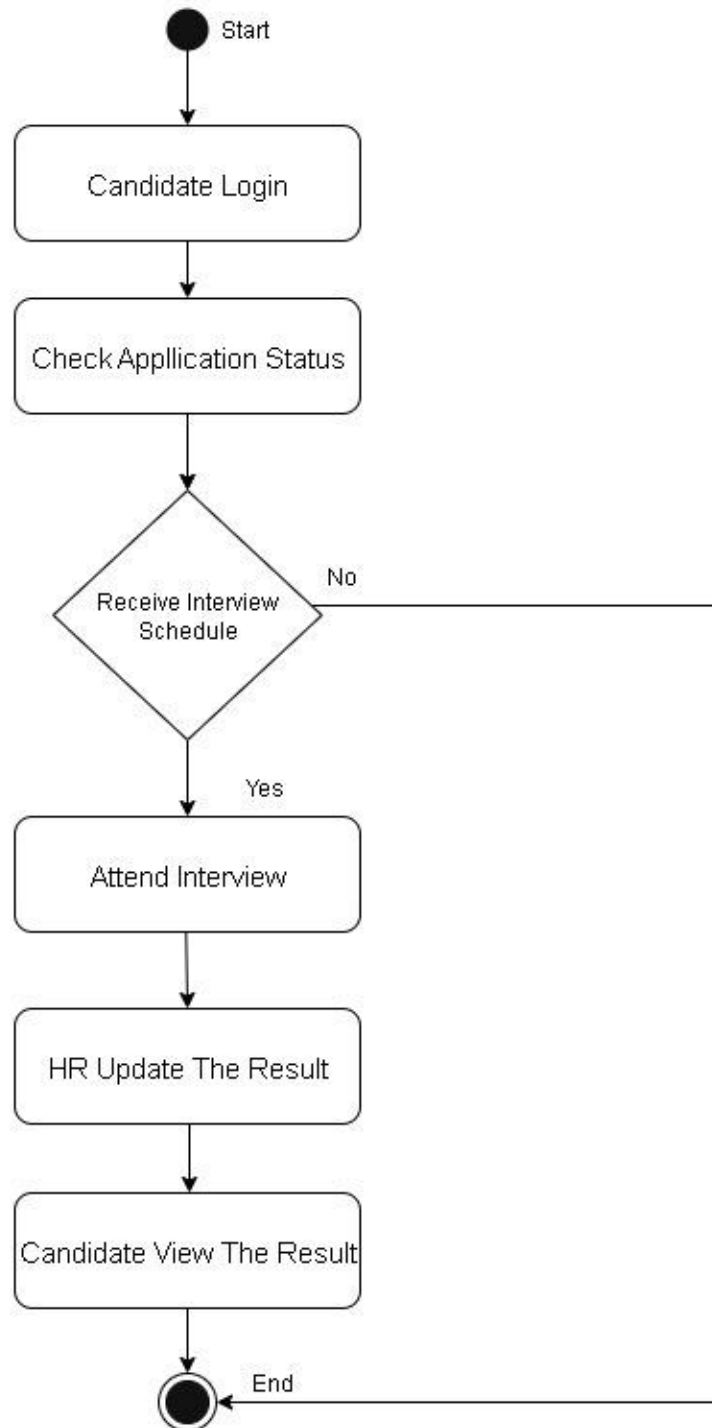




## ❖ ACTIVITY FOR APPLYING FOR A JOB



## ❖ ACTIVITY FOR ATTENDING INTERVIEW



# DATA DICTIONARY

## 1. USERS TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK, Auto Increment	Unique user ID
organization_id	BIGINT	FK → organizations.id, Nullable	Organization ID
email	VARCHAR	Not Null, Unique	Email address
password_hash	VARCHAR	Nullable	Hashed password
full_name	VARCHAR	Nullable	Full name
role	ENUM	Not Null	User role
is_active	BOOLEAN	Default true	Active status
invite_token	VARCHAR(128)	Nullable	Invite token
otp_code	VARCHAR	Nullable	OTP code
otp_expiry	DATETIME	Nullable	OTP expiration
is_verified	BOOLEAN	Default false	Email verified
reset_otp	VARCHAR	Nullable	Reset OTP
reset_expiry	DATETIME	Nullable	Reset expiry
created_at	DATETIME	Default NOW	Created date

## 2.ORGANIZATIONS TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Organization ID
name	VARCHAR	Not Null	Organization name
domain	VARCHAR	Nullable	Email domain
created_at	DATETIME	Default NOW	Created date

## 3.JOBS TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Job ID
organization_id	BIGINT	FK → organizations.id	Organization ID
created_by	BIGINT	FK → users.id	Creator ID
title	VARCHAR	Not Null	Job title
description	TEXT	Nullable	Job description
location	VARCHAR	Nullable	Job location
employment_type	ENUM	Nullable	Job type
salary_min	INTEGER	Nullable	Minimum salary
salary_max	INTEGER	Nullable	Maximum salary
posted_at	DATETIME	Default NOW	Posted date
status	ENUM	Default open	Job status

## 4.APPLICATIONS TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Application ID
job_id	BIGINT	FK → jobs.id	Job ID
applicant_id	BIGINT	FK → users.id	Applicant ID
cover_letter	TEXT	Nullable	Cover letter
resume_url	VARCHAR(1024)	Nullable	Resume link
status	ENUM	Default applied	Workflow status
status_history	JSON	Default []	Status logs
interview_at	DATETIME	Nullable	Interview date
recruiter_notes	TEXT	Nullable	HR notes
applied_at	DATETIME	Default NOW	Applied date

## 5.FEEDBACK TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Feedback ID
user_id	BIGINT	FK → users.id	User ID
rating	INTEGER	Not Null	Rating
message	TEXT	Not Null	Feedback text
created_at	DATETIME	Default NOW	Created date

## 6.PROFILES TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Profile ID
user_id	BIGINT	Unique, FK → users.id	User ID
headline	VARCHAR	Nullable	Headline
summary	TEXT	Nullable	Summary
resume_url	VARCHAR(1024)	Nullable	Resume link
skills	JSON	Nullable	Skills list
created_at	DATETIME	Default NOW	Created date

## 7.CONTACT MESSAGE TABLE

Name	Data Type	Constraints	Description
id	BIGINT	PK Auto Increment	Message ID
name	VARCHAR	Not Null	Sender name
email	VARCHAR	Not Null	Sender email
phone	VARCHAR	Nullable	Phone number
subject	VARCHAR	Not Null	Subject
message	TEXT	Not Null	Message text
created_at	DATETIME	Default NOW	Created date

# TEST CASES

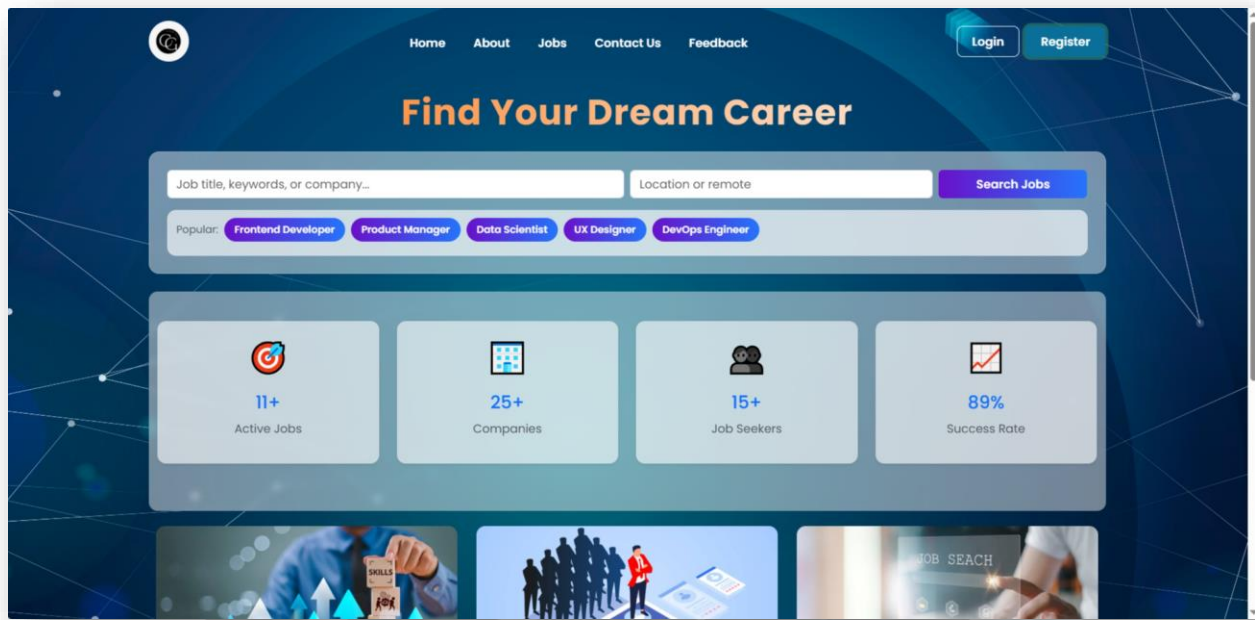
TEST CASE ID	TEST CASE DESCRIPTION	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/FAIL
1	Valid Registration	1.Go to register 2.Enter name 3.Enter email 4.Enter password 5.Click Register	Name=Dhruvi Email=dhruvi@gmail.com Password=Dhruvi@123	User should register successfully	As expected	Pass
2	Invalid Email Registration	1.Go to register 2.Enter invalid email 3.Click Register	Email=dhruvi@com	Show invalid email error	As expected	Pass
3	Valid Login	1.Go to login 2.Enter email 3.Enter password 4.Click Login	Email=dhruvi@gmail.com Password=Dhruvi@123	Login successful	As expected	Pass
4	Invalid Password Login	1.Go to login 2.Enter email 3.Enter wrong password	Password=Wrong@123	Show incorrect password message	As expected	Pass
5	Apply for Job	1.Login 2.Open job 3.Click apply	JobID=101	Application submitted successfully	As expected	Pass

6	Duplicate Job Apply	1.Login 2.Apply again	Already applied	Show duplicate application message	As expected	Pass
7	Resume Upload	1.Login 2.Go to profile 3.Upload resume	resume.pdf	Resume uploaded	As expected	Pass
8	Create Job (Organization)	1.Login Org 2.Create job 3.Enter details 4.Save	Title=Software Engineer	Job created	As expected	Pass
9	Shortlist Candidate	1.Login Org 2.Open applications 3.Select candidate 4.Change status	Status=Shortlisted	Status updated	As expected	Pass
10	Schedule Interview	1.Login Org 2.Open candidate 3.Select interview 4.Set date & time 5.Save	25 Feb 2025, 2PM	Interview scheduled	As expected	Pass

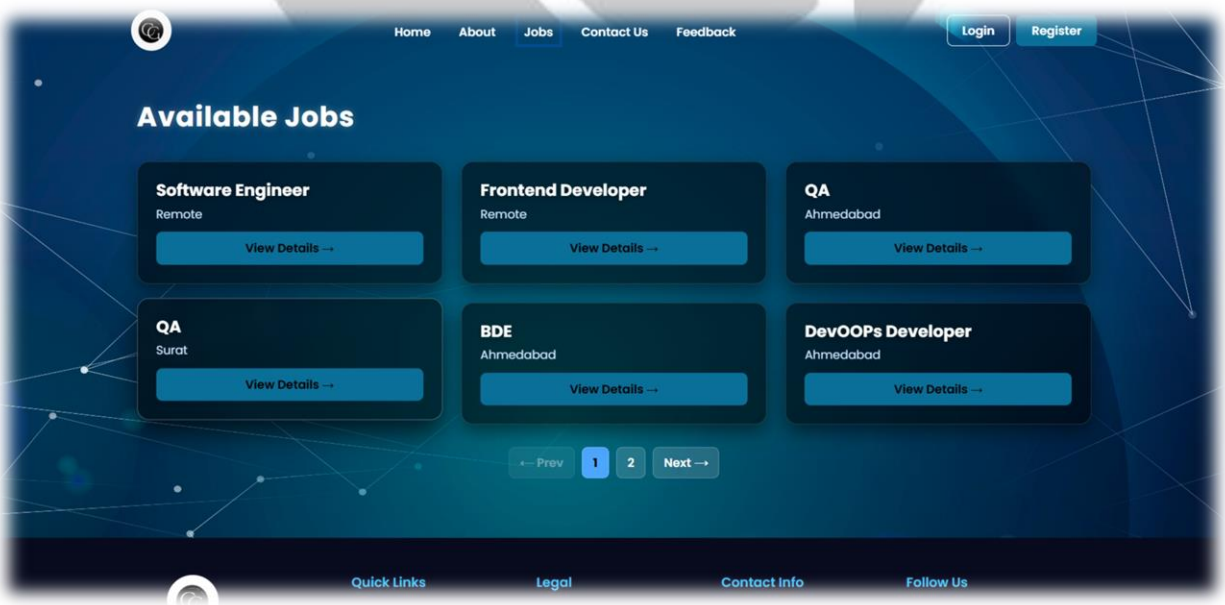


# SCREEN LAYOUT FOR THE VISITOR

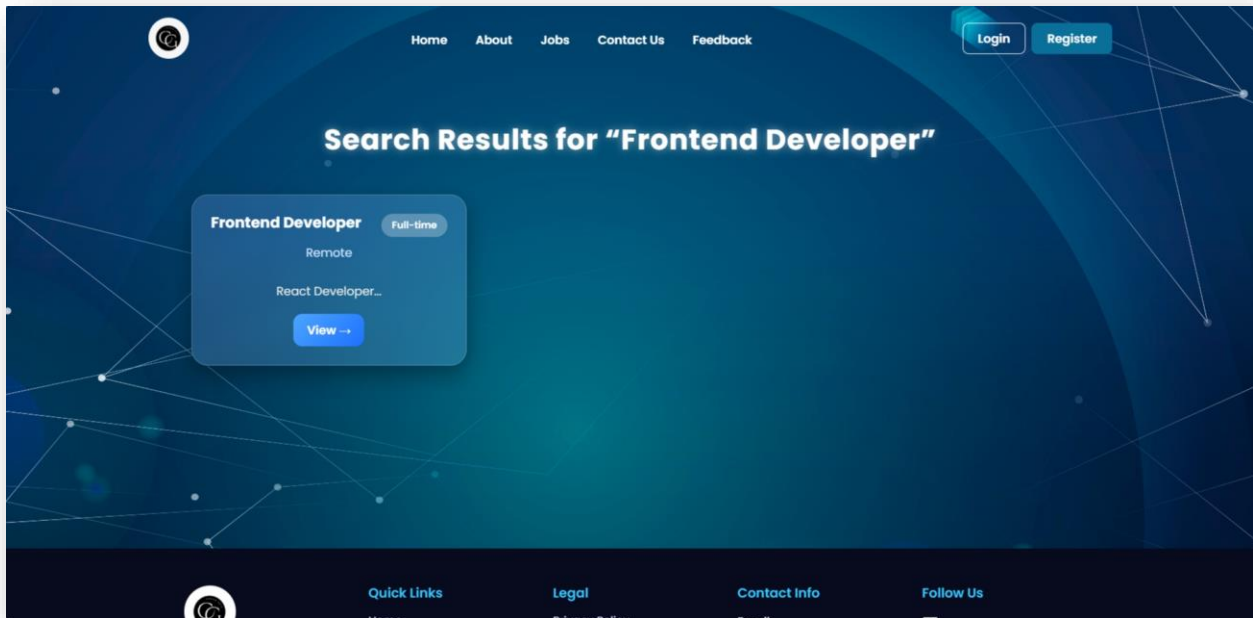
- HOME PAGE



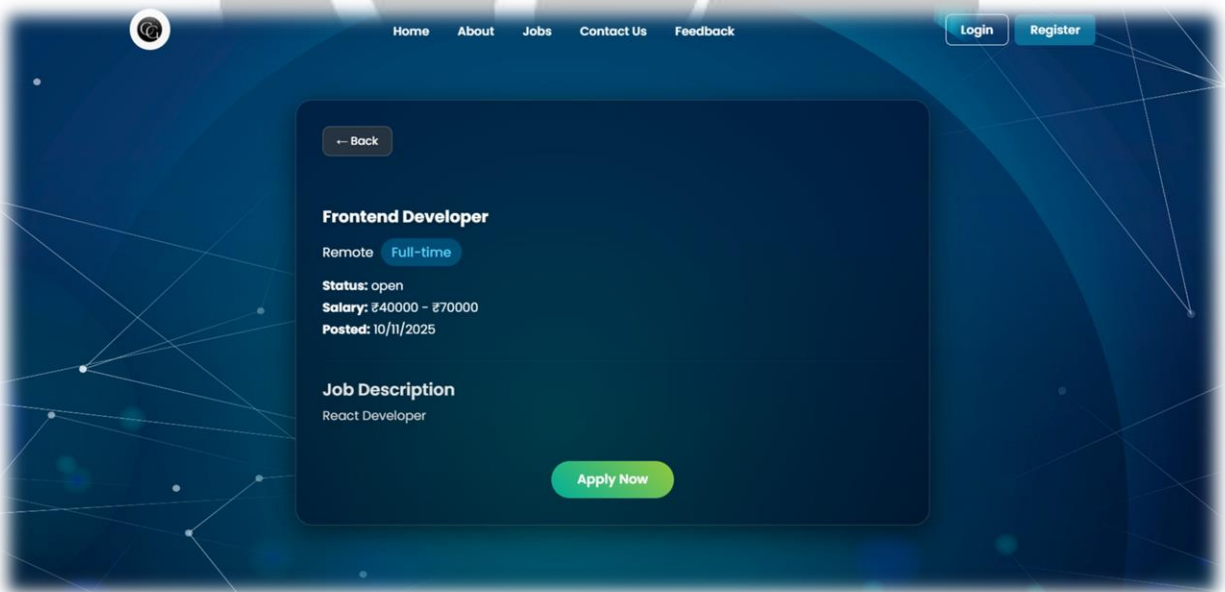
- VIEW ALL OPEN JOBS PAGE



## • SEARCH JOBS PAGE

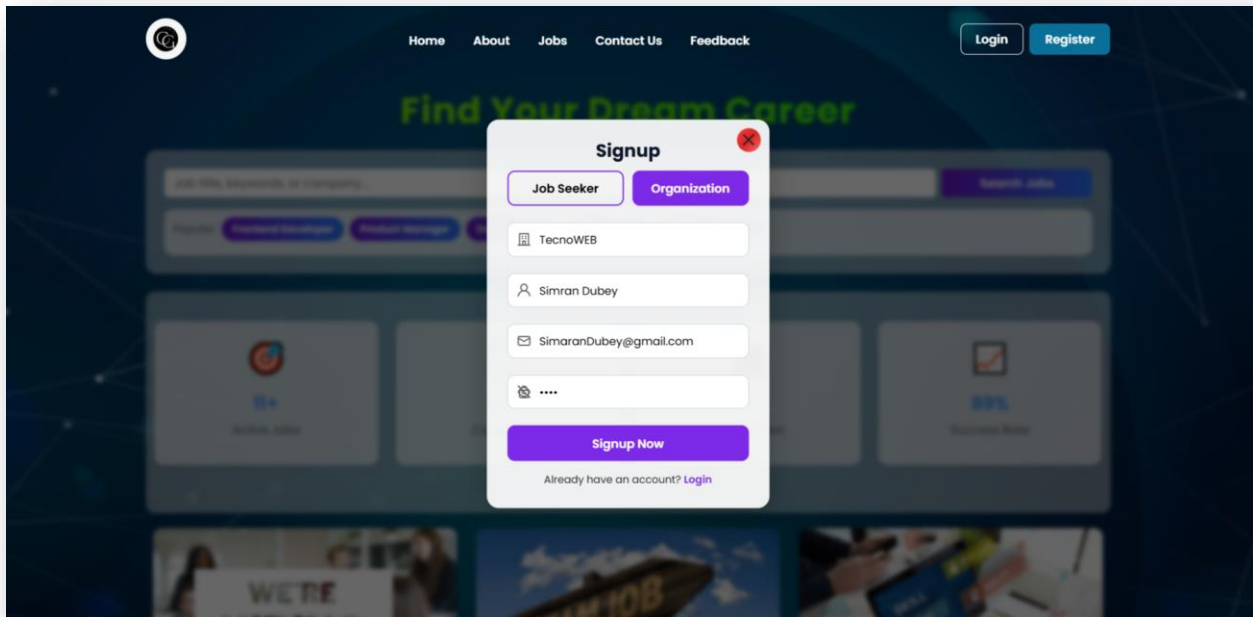


## • JOB DETAILS PAGE

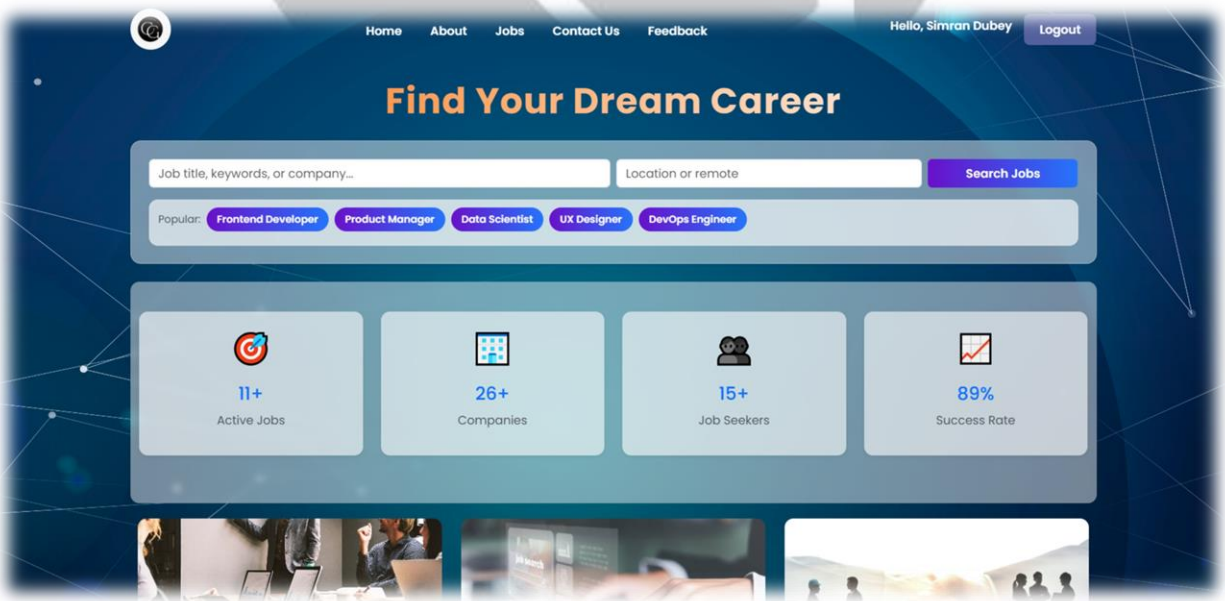


# SCREEN LAYOUT FOR THE ORGANIZATION

- ORGANIZATION REGISTRATION FROM



- ORGANIZATION DASHBOARD



## • CREATE JOB PAGE

Home About Jobs Contact Us Feedback Hello, Simran Dubey Logout

### Create Job

Flutter Developer & Business Development Executive (BDE)

Performance-based incentives  
Exposure to real-world IT projects  
Festival leaves, team events & celebrations

Ahmedabad

Full-time

35000 50000

Create Job

## • JOB LIST / MANAGE JOB PAGE

Home About Jobs Contact Us Feedback Hello, Simran Dubey Logout

← Back

View Applicants Edit Job Close Job

### Flutter Developer & Business Development Executive (BDE)

Ahmedabad Full-time

Status: open  
Salary: ₹35000 - ₹50000  
Posted: 11/21/2025

#### Job Description

✦ What We Offer: Professional training & mentorship Friendly, growth-oriented work culture  
Opportunity to work with global clients Performance-based incentives Exposure to real-world IT projects Festival leaves, team events & celebrations

## • CANDIDATE APPLICATION DETAILS PAGE

The screenshot shows the 'Applicants for this Job' section for a candidate named Krishna. The candidate's email is krishnapatel@gmail.com and their status is 'applied'. There is a 'View Resume' link. Below this are five buttons: 'Screening' (disabled), 'Shortlist' (active), 'Schedule Interview' (highlighted), 'Select' (disabled), and 'Reject' (disabled). The 'Status History' section shows a single entry: 'APPLIED — 11/21/2025, 7:01:42 PM by: Krishna' with a note 'Application submitted'. The footer includes navigation links, legal information, contact details, and social media links.

**Applicants for this Job**

**Krishna**  
Email: krishnapatel@gmail.com  
Status: **applied**  
Resume: View Resume

Screening Shortlist **Schedule Interview** Select Reject

**Status History:**

- **APPLIED** — 11/21/2025, 7:01:42 PM  
by: Krishna  
Note: Application submitted

**Quick Links**  
Home  
About

**Legal**  
Privacy Policy  
Terms & Conditions

**Contact Info**  
Email: support@careergrid.com

**Follow Us**

## • SCHEDULE INTERVIEW PAGE

The screenshot shows the 'Schedule Interview' modal form overlaid on the candidate details page. The modal has a title 'Schedule Interview' and a close button. It contains a 'Date & Time' field with the value '11/27/2025 11:04 PM' and a calendar icon. Below this is a 'Note (optional)' field with the text 'At office'. At the bottom are 'Cancel' and 'Save' buttons. The background page is dimmed.

**Applicants for this Job**

**Krishna**  
Email: krishnapatel@gmail.com  
Status: **applied**  
Resume: View Resume

Screening Shortlist **Schedule Interview** Select Reject

**Status History:**

- **APPLIED** — 11/21/2025, 7:01:42 PM  
by: Krishna  
Note: Application submitted

**Schedule Interview**

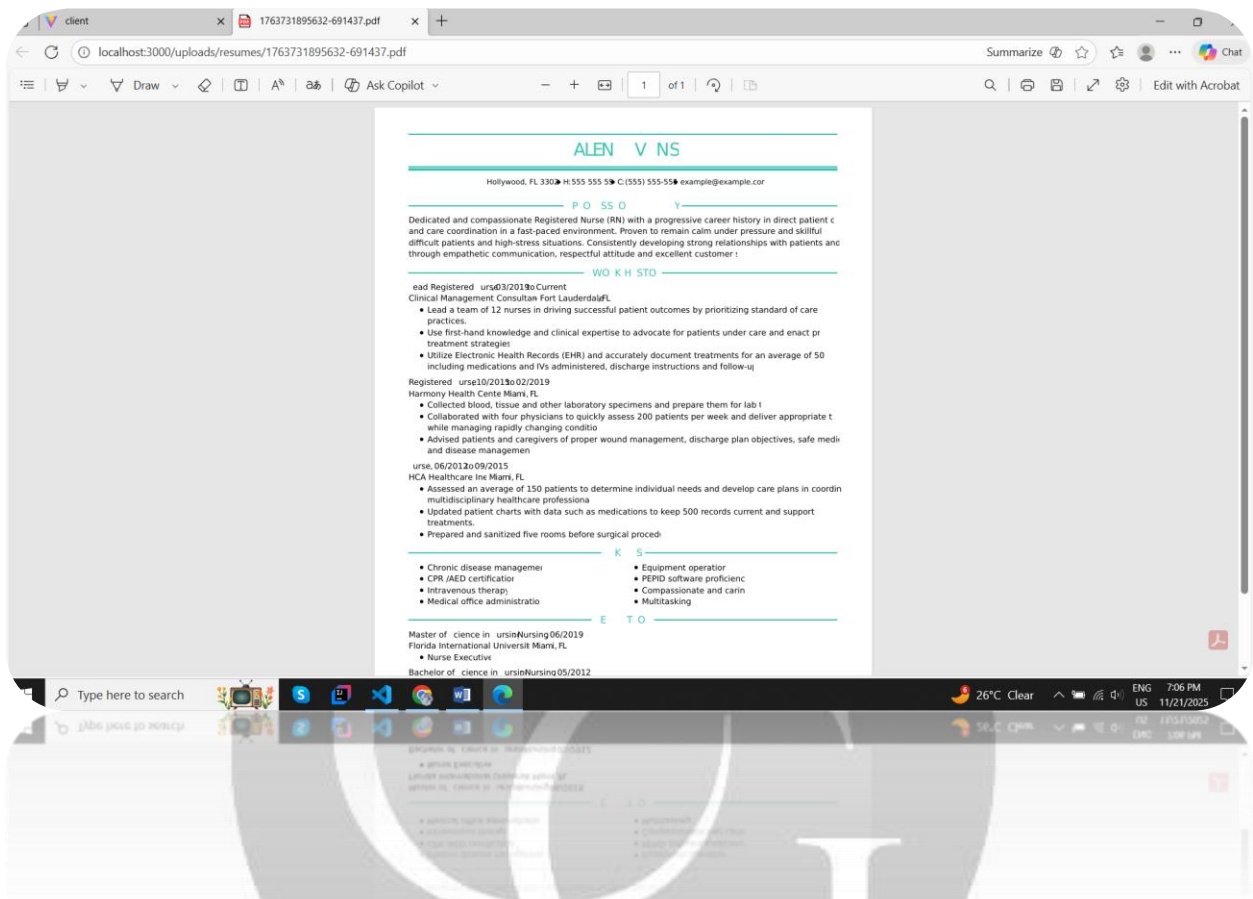
**Date & Time**  
11/27/2025 11:04 PM

**Note (optional)**  
At office

Cancel Save

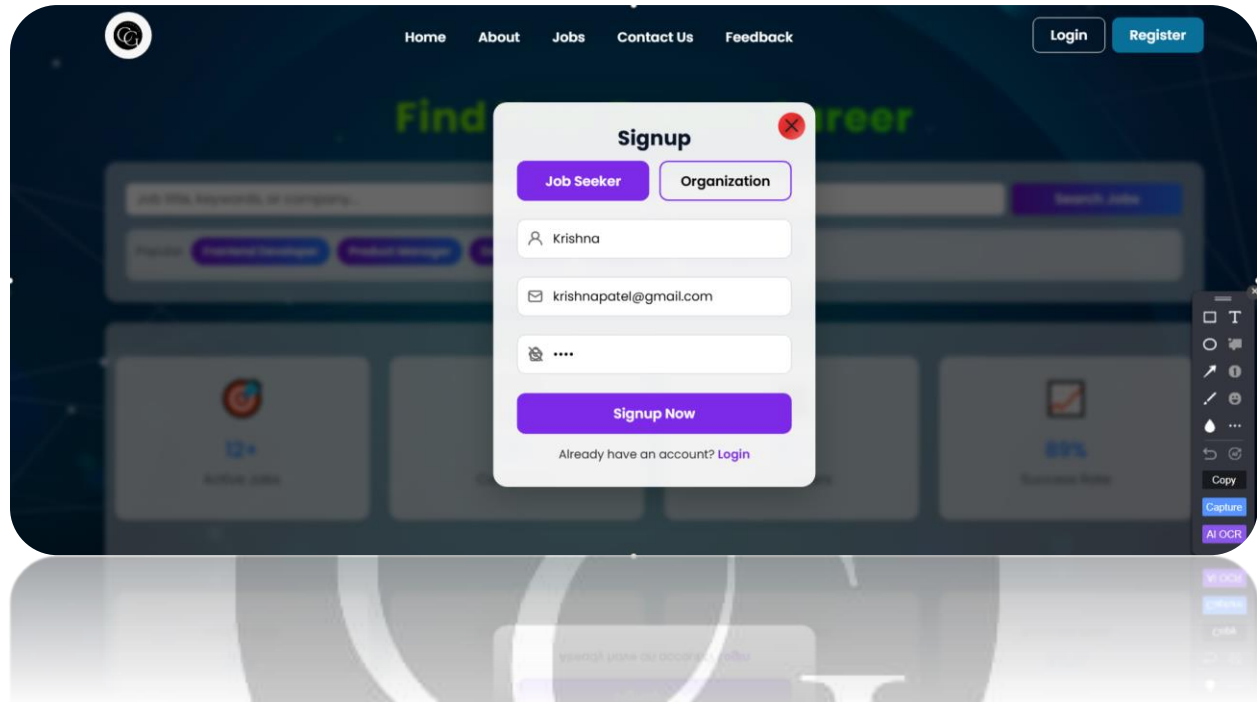


## • VIEW CANDIDATE RESUME PAGE



# SCREEN LAYOUT FOR A JOB SEEKER

- JOB SEEKER REGISTRATION



The image shows a mobile application interface for job seeking. A dark blue header bar contains a logo on the left and navigation links: Home, About, Jobs, Contact Us, and Feedback. On the right of the header are 'Login' and 'Register' buttons. The main content area has a search bar with the placeholder text 'Find jobs, keywords, or companies'. Below the search bar are filters for 'Location' and 'Salary'. A 'Signup' modal is centered on the screen, featuring a red close button in the top right corner. The modal has two tabs: 'Job Seeker' (selected) and 'Organization'. It contains three input fields: a name field with 'Krishna', an email field with 'krishnapatel@gmail.com', and a password field with four dots. A purple 'Signup Now' button is at the bottom of the form, with a link 'Already have an account? Login' below it. A vertical toolbar on the right side of the screen includes icons for zooming, panning, and other navigation functions, with labels like 'Copy', 'Capture', and 'AI OCR' at the bottom.

**Signup**

**Job Seeker** **Organization**

Krishna

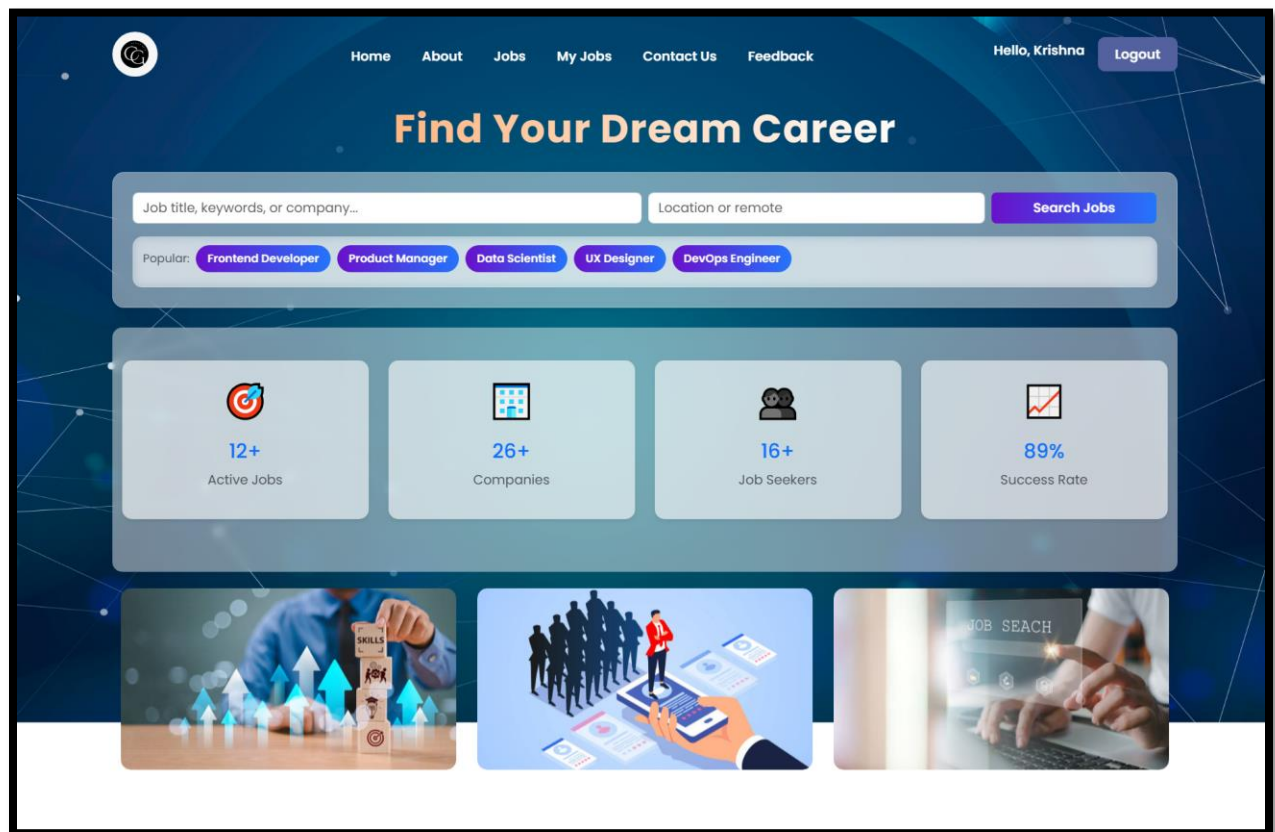
krishnapatel@gmail.com

....

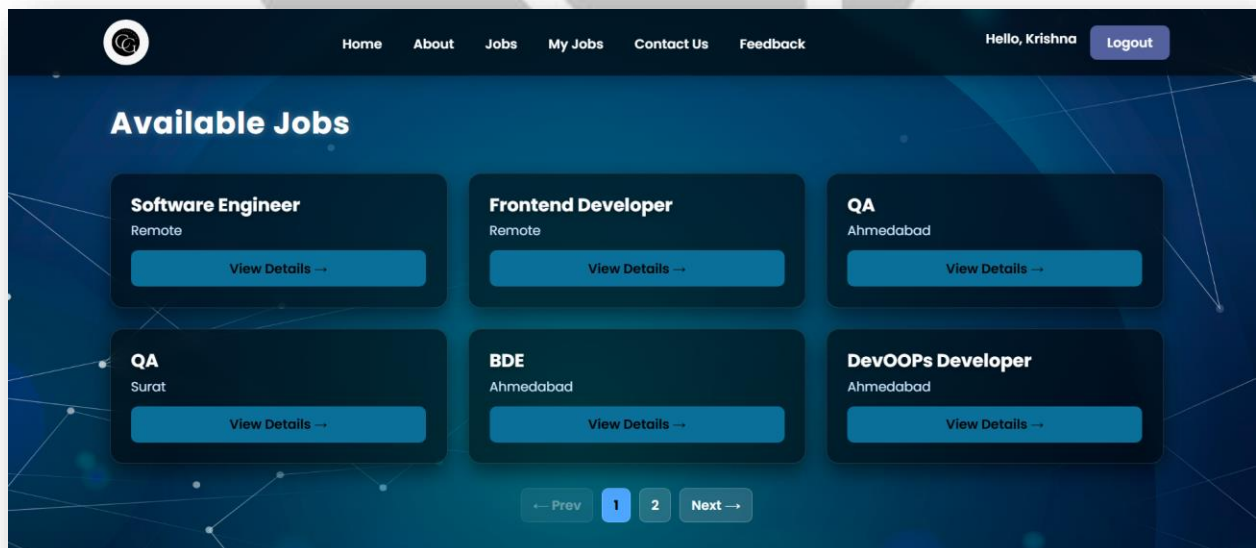
**Signup Now**

Already have an account? [Login](#)

## • JOB SEEKER DASHBOARD

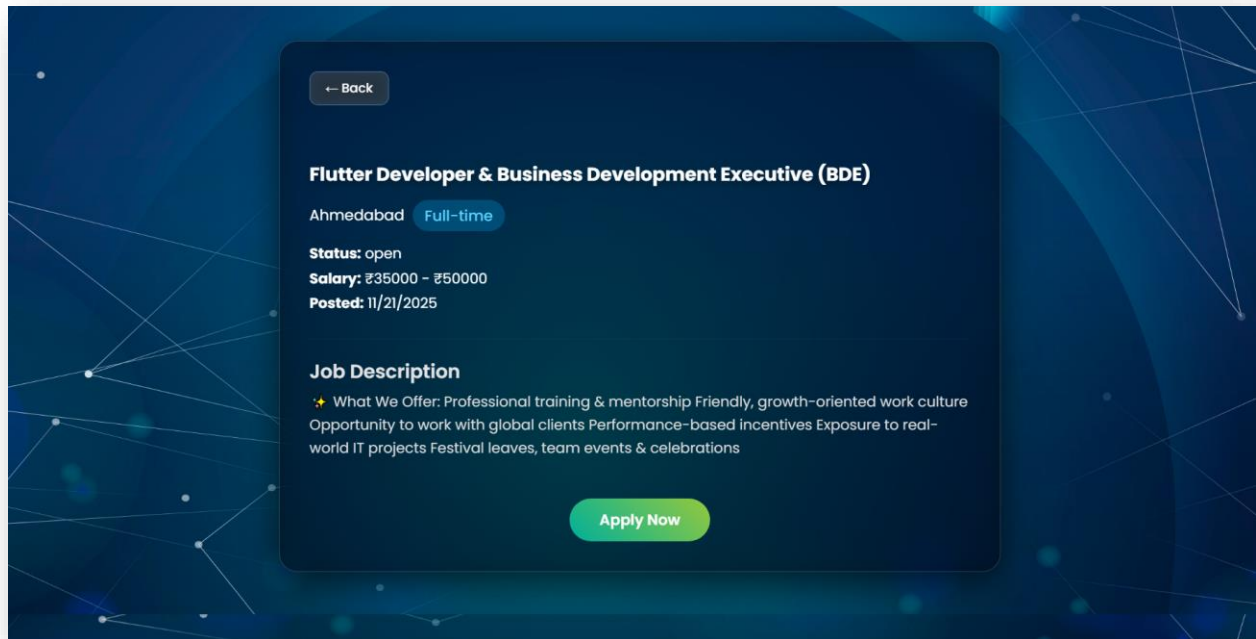


## • VIEW ALL JOBS

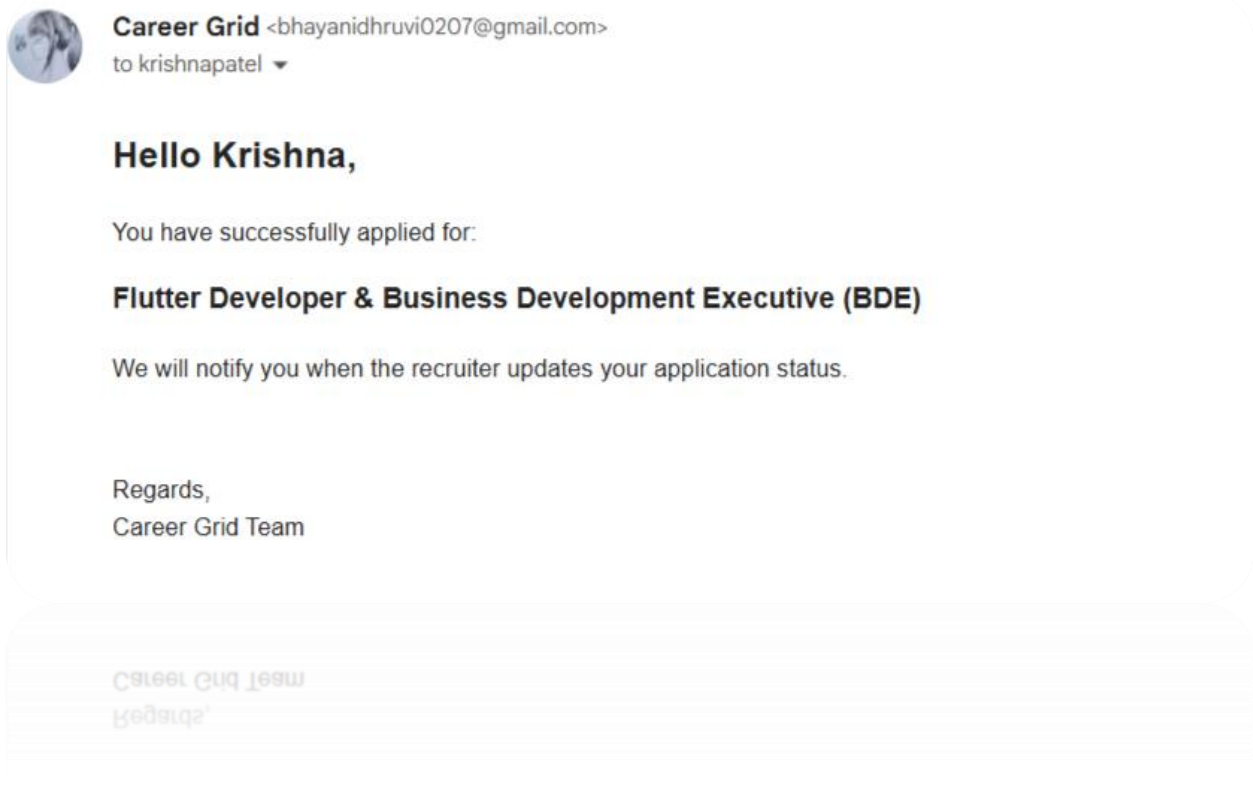




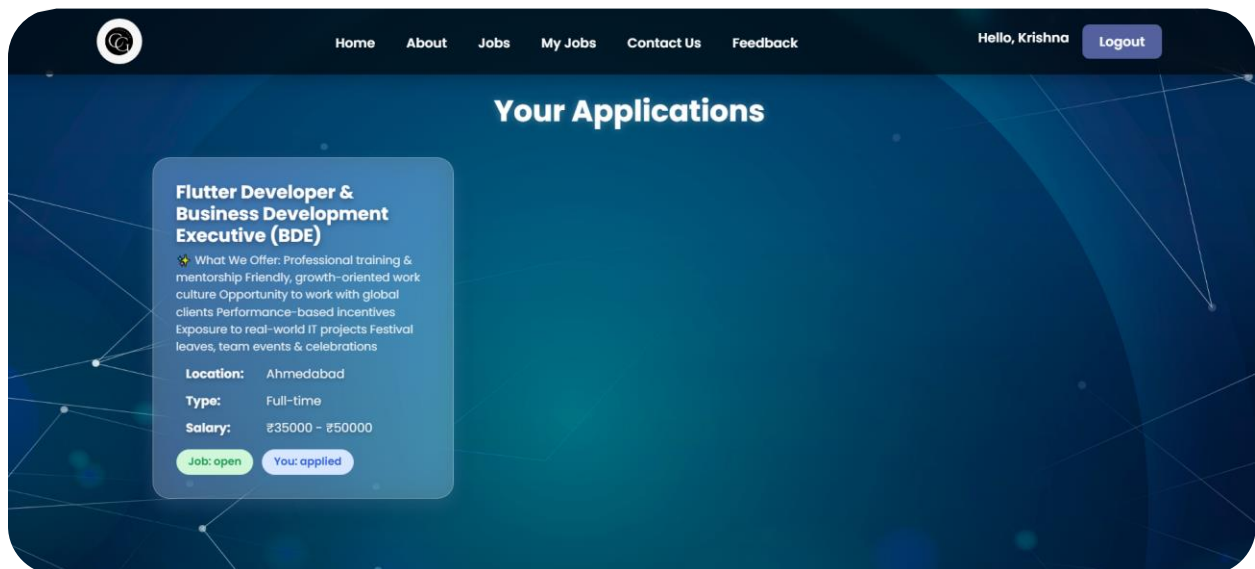
- **JOB DETAILS PAGE**



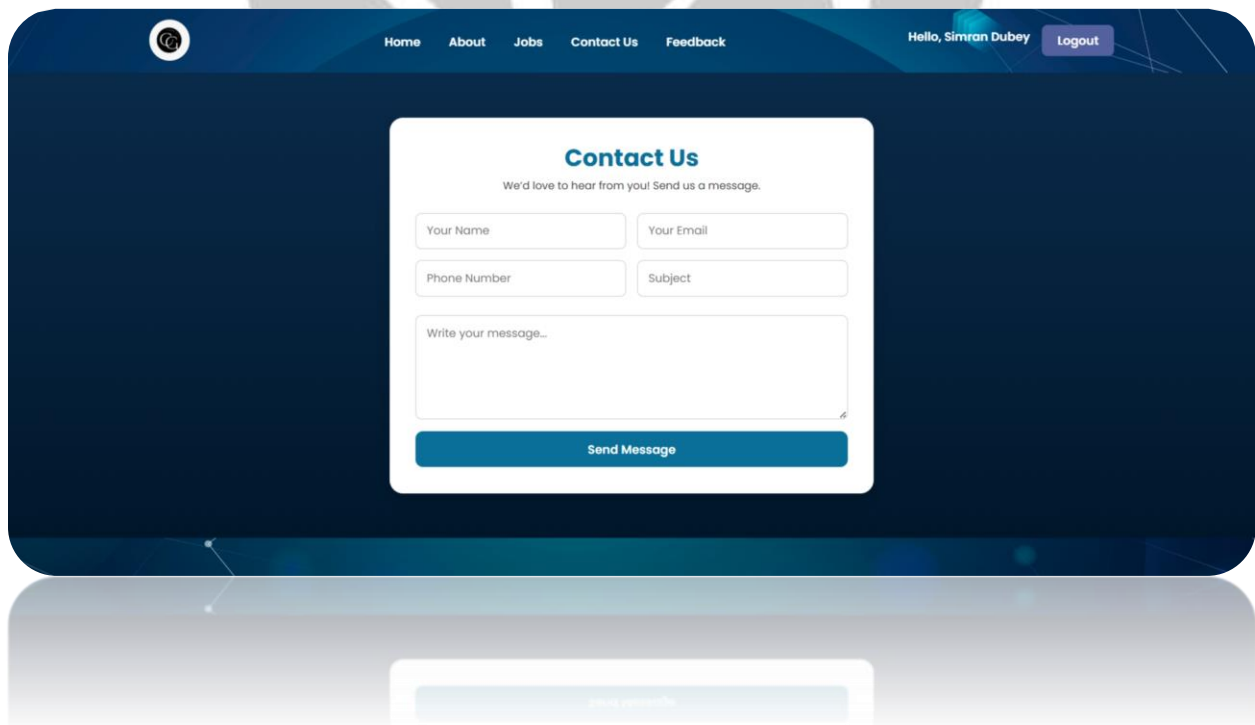
- **APPLY JOB SUCCESS PAGE(GETTING MAIL)**



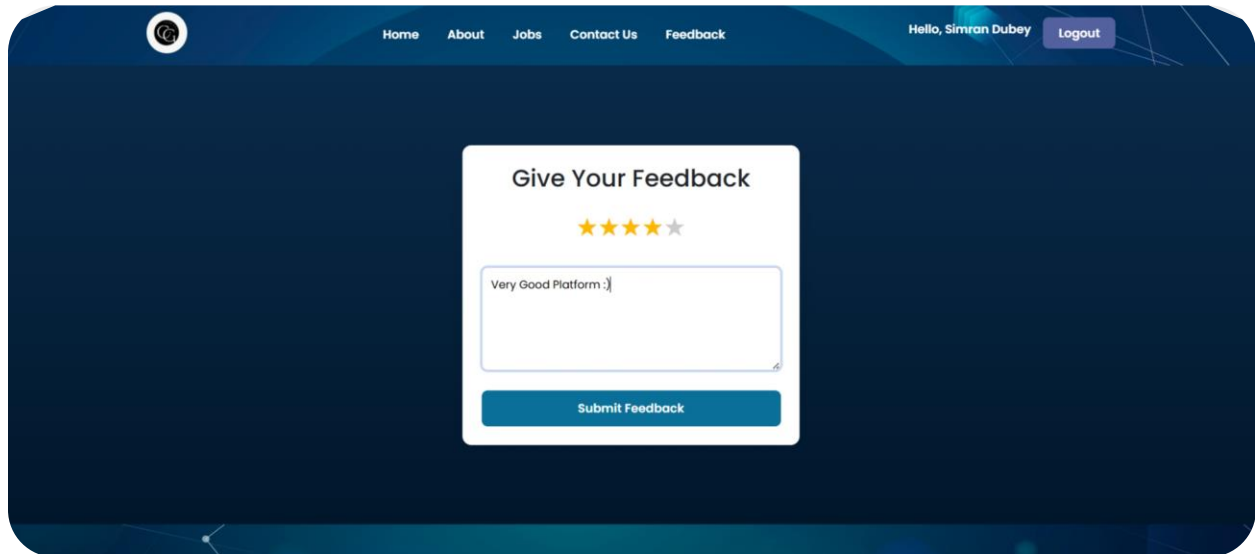
## • MY APPLICATIONS PAGE



## • CONTACT US



## • FEEDBACK



The screenshot shows a web application interface with a dark blue background. At the top, there is a navigation bar with a logo on the left and links for Home, About, Jobs, Contact Us, and Feedback. On the right side of the navigation bar, it says "Hello, Simran Dubey" and a "Logout" button. In the center of the page, there is a white feedback form titled "Give Your Feedback". The form includes a five-star rating system with four stars filled and one empty. Below the stars is a text input field containing the text "Very Good Platform :)". At the bottom of the form is a blue button labeled "Submit Feedback".

## CONCLUSION

The **Corporate Recruitment System** streamlines the hiring process by automating job postings, applications, interviews, and feedback on a single platform. It saves time, improves accuracy, and enhances transparency, making recruitment faster, smarter, and more reliable for both companies and candidates.

## BIBLIOGRAPHY

- ❑ *ChatGPT – OpenAI* (for content explanation and project guidance).
- ❑ *GeeksforGeeks* – <https://www.geeksforgeeks.org> (for database and system design references).
- ❑ *W3Schools* – <https://www.w3schools.com> (for SQL and database-related references).