INDEX

Sr No.	Chapter	Page No.
1	Introduction	2 - 4
	1.1 Project Description	
	1.2 Project Profile	
2	Objectives	5
3	System Flow Diagram	6 - 7
4	DFD Diagram	8 - 12
5	ER Diagram	13
6	Database Design	14 – 16
7	System Design	17 – 33
	7.1 Employer Panel	
	7.2 Job Seeker Panel	

1. Introduction

1.1 Project Description

- ➤ **Job-Seeking Application** is a system designed primarily for helping job seekers and employers to connect.
- ➤ This system is structured to provide a user-friendly interface that simplifies both job posting and job searching activities.
- > The job-seeking application contains two main panels:
- ✓ Employer Panel
- ✓ Job Seeker Panel

Employer Panel:

- > The Employer Panel allows companies or individuals to post job openings.
- Key features include:
 - Login and Access:
- Employers are required to log in with their accounts to access the platform.
 - Job Management:
- Employers can post new job opportunities and update or delete existing job listings.
 - Application Review:
- Employers can view and manage applications submitted by job seekers, and engage with candidates based on their qualifications.

❖ Job Seeker Panel:

- > The Job Seeker Panel is designed for seeking job opportunities.
- Key features include:

• Login and Profile:

- Job seekers must login with their accounts to access the platform

• View Available Jobs:

- Job seekers can browse available job listings on the platform.

• Apply for Jobs:

- Registered job seekers can apply for job openings directly through the platform.

Manage Applications:

- Job seekers can view their submitted applications and delete them if necessary.

1.2 Project Profile

Job Seeking Application			
Project title:	Job Seeking Application		
Frontend:	React JS		
Backend:	Express JS and MongoDB		
Browser:	Chrome and Microsoft Edge		
Platform:	Visual Studio Code, MongoDB Compass, Postman		
Documentation tool:	MS Word		
Internal Guide:	Prof. Sanskruti Ramani		
Submitted to:	Prof. Sanskruti Ramani		

2. Objectives

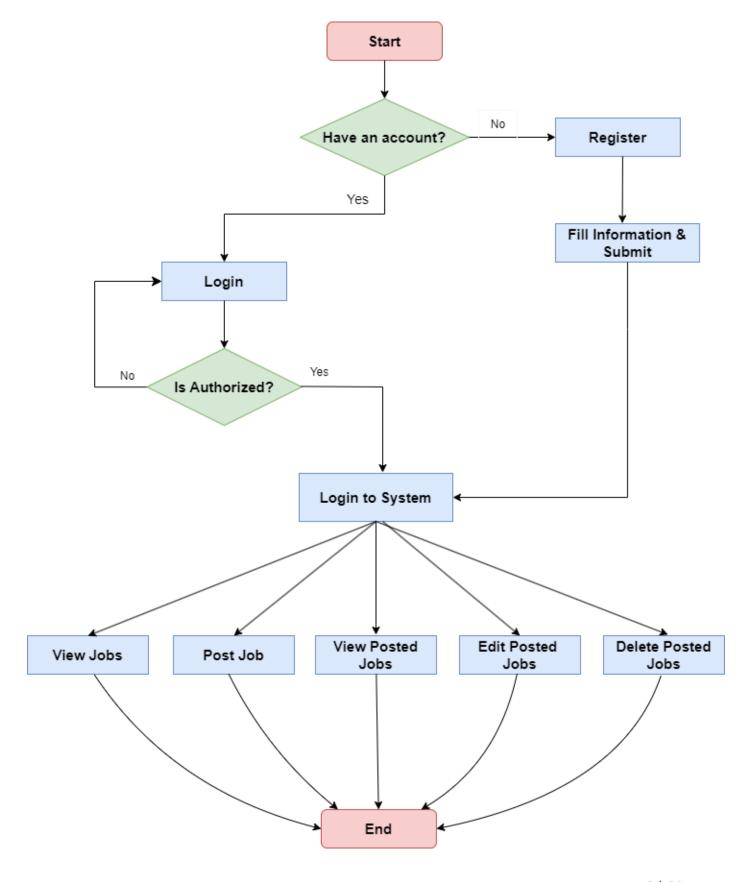
• Start to End Process:

- 1. Collecting information for system (Requirement Gathering and Analysis).
- 2. Preparing the design of the system through information.
- 3. Create MongoDB collections and define schemas.
- 4. Connect React with Express API and MongoDB.
- 5. Implement schema validation in MongoDB using JSON Schema, and enhance it with the validator package in Mongoose for additional data integrity checks.
- 6. Testing.
- 7. Debugging and code optimization.

3. System Flow Diagram

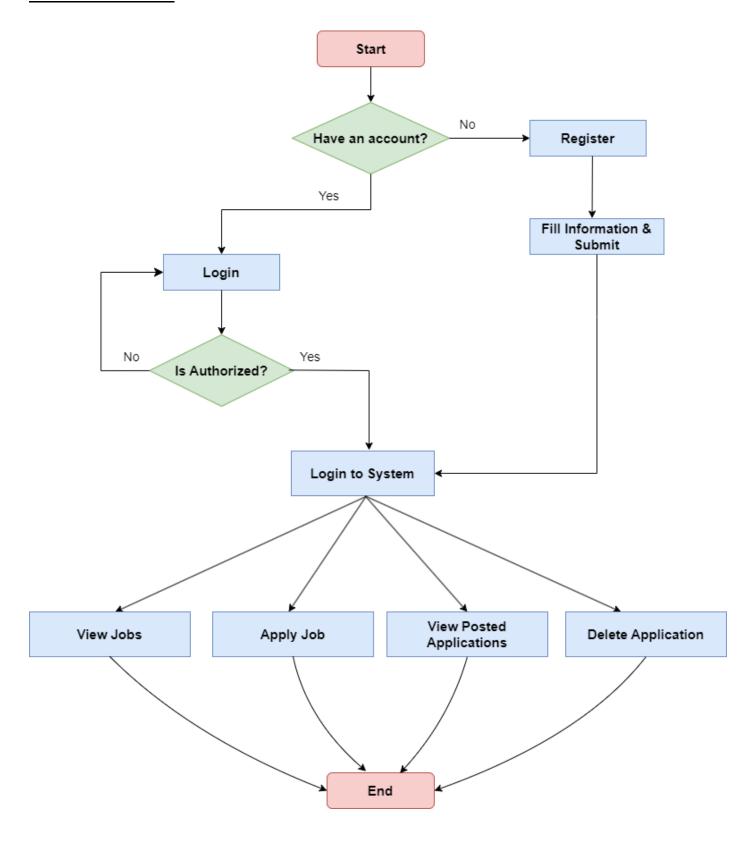
• Employer Process Flow Diagram:

Employer Process



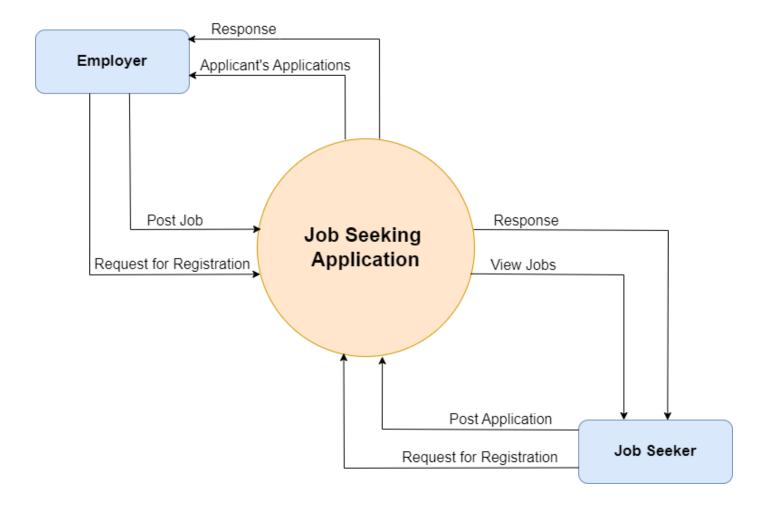
• Job Seeker Process Flow Diagram:

Job Seeker Process

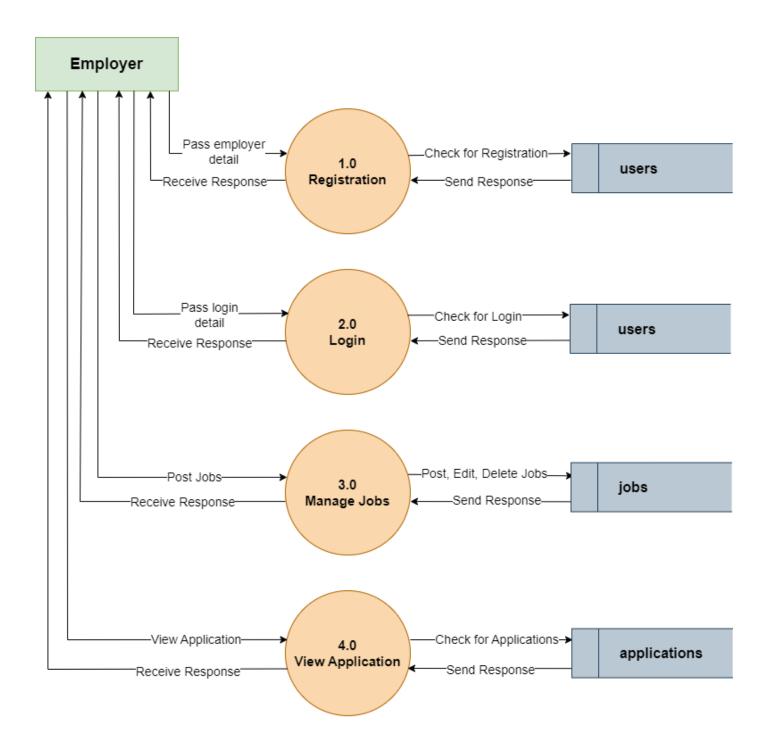


4. DFD Diagram

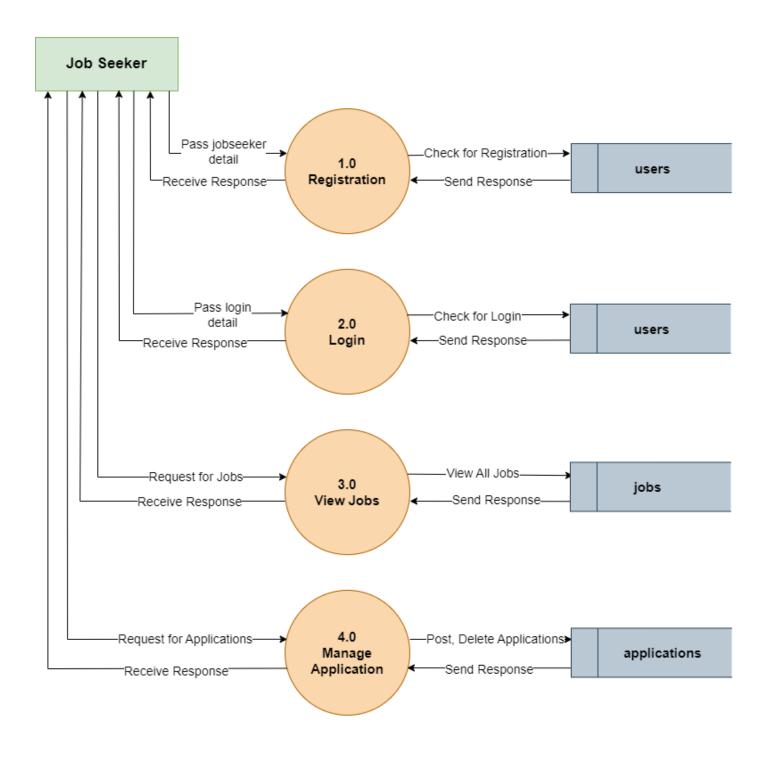
• 0 Level Diagram (Context Diagram):



• 1st Level Employer Diagram:

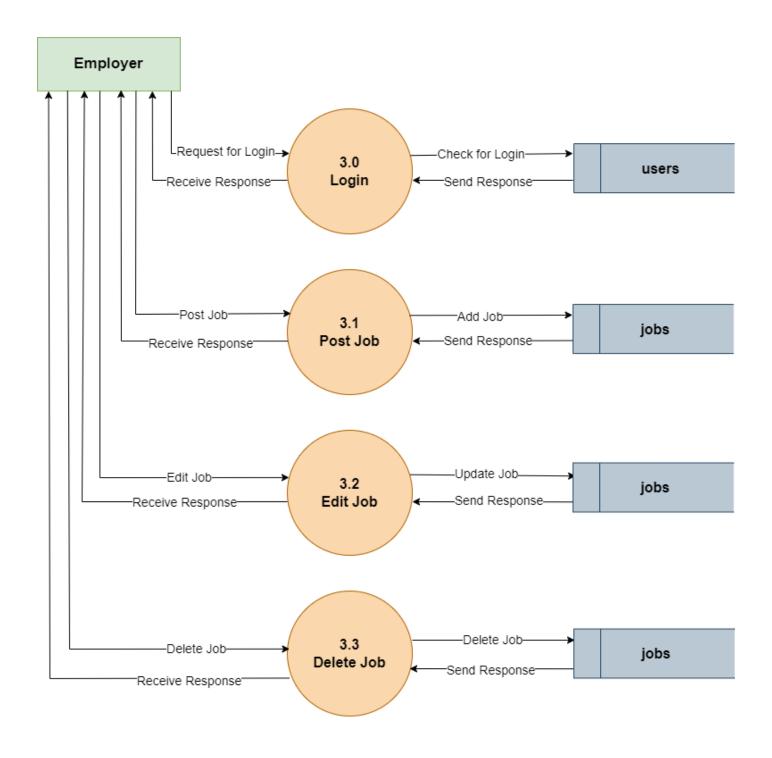


• 1st Level Job Seeker Diagram:

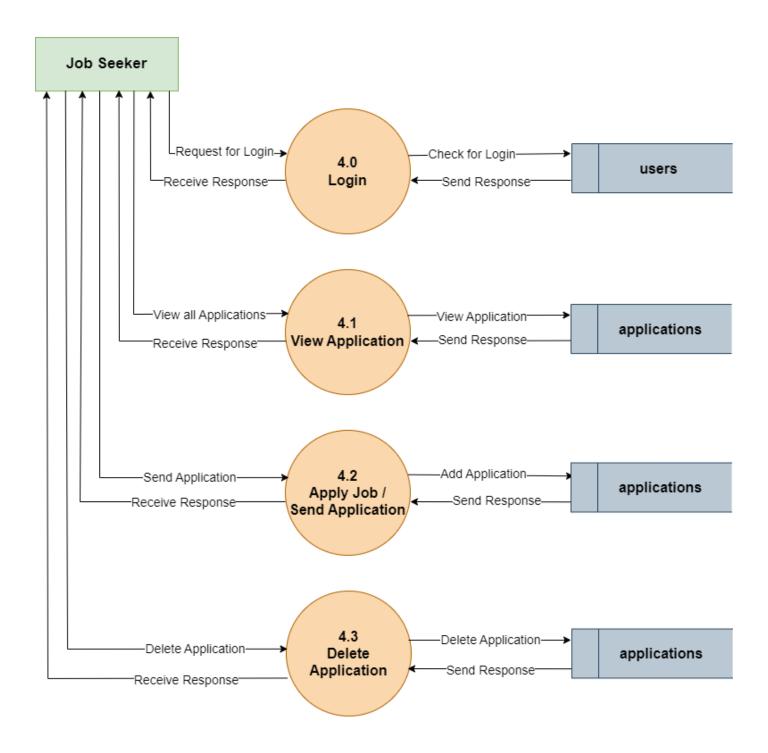


• 2nd Level Employer Diagram:

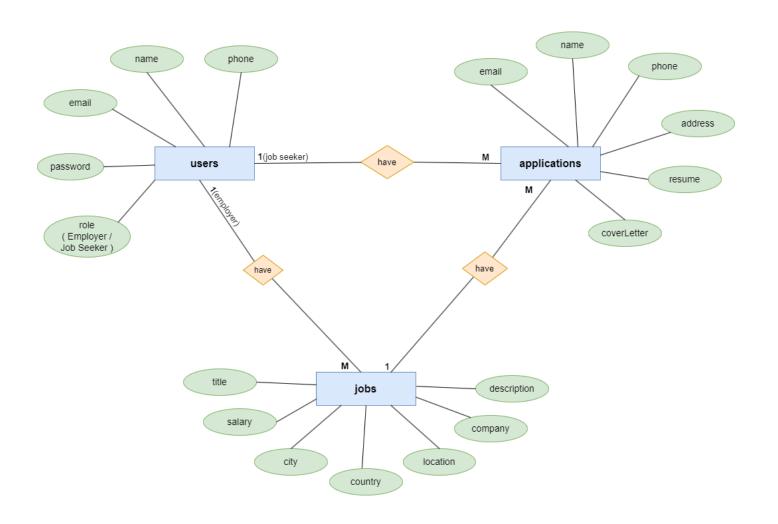
• (3.0 Manage Jobs)



- 2nd Level Job Seeker Diagram:
- (4.0 Manage Applications)



5. ER Diagram



6. Database Design

• User collection:

<u>users</u>				
Sr. No.	Field Name	Data Type	Constraints	
1	ObjectId	ObjectId	Automatically generated by MongoDB.	
2	name	String	minimum length 3, maximum length 30.	
3	email	String	unique.	
4	phone	Number	must be a valid phone number	
5	password	String (hashed)	minimum length 6, maximum length 30	
6	role	String	"Job Seeker" or "Employer".	
7	createdAt	Date	current date and time	

• Job collection:

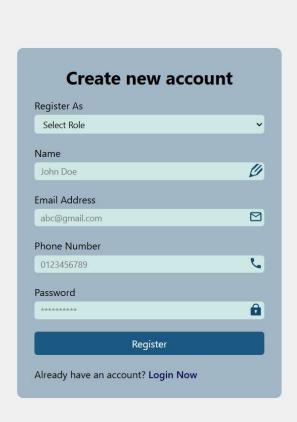
<u>jobs</u>			
Sr. No.	Field Name	Data Type	Description
1	_id	ObjectId	Automatically generated by MongoDB.
2	title	String	minimum length 3, maximum length 50.
3	description	String	minimum length 3, maximum length 350.
4	company	String	Required.
5	country	String	Required.
6	city	String	Required.
7	location	String	minimum length 10.
8	fixedSalary	Number	minimum 5000, maximum 10000000.
9	salaryFrom	Number	minimum 5000, maximum 10000000.
10	salaryTo	Number	minimum 5000, maximum 10000000.
11	expired	Boolean	Defaults to false.
12	jobType	Array of Strings	"Full Time", "Part Time", "Internship".
13	jobPostedOn	Date	current date and time.
14	postedBy	ObjectId	References the _id of the User who posted the job.

• Application collection:

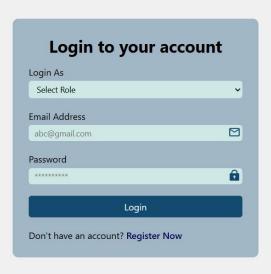
<u>applications</u>				
Sr. No.	Field Name	Data Type	Description	
1	_id	ObjectId	Automatically generated by MongoDB.	
2	name	String	minimum length 3, maximum length 30.	
3	email	String	Required	
4	coverLetter	String	Required	
5	phone	Number	Required	
6	address	String	Required	
7	resume	String	file path to the resume.	
8	applicantId	Object	applicant's user reference and role.	
9	employerId	Object	employer's user reference and role.	
10	jobld	ObjectId	references the Job model.	

7. System Design

Register & Login Page:

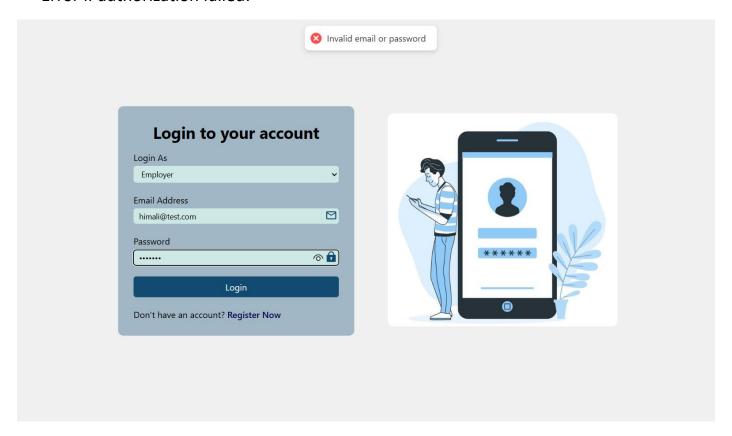




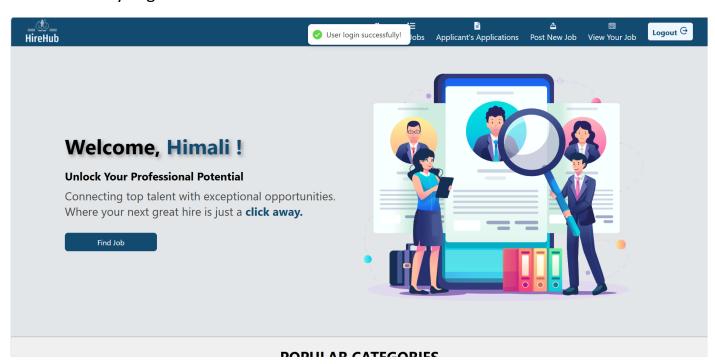




- Error if authorization failed:

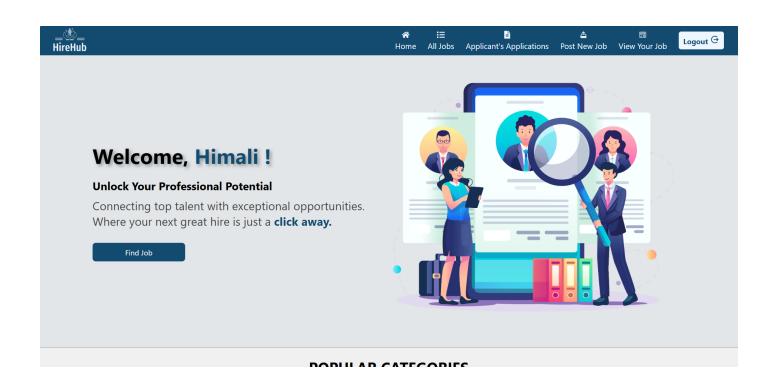


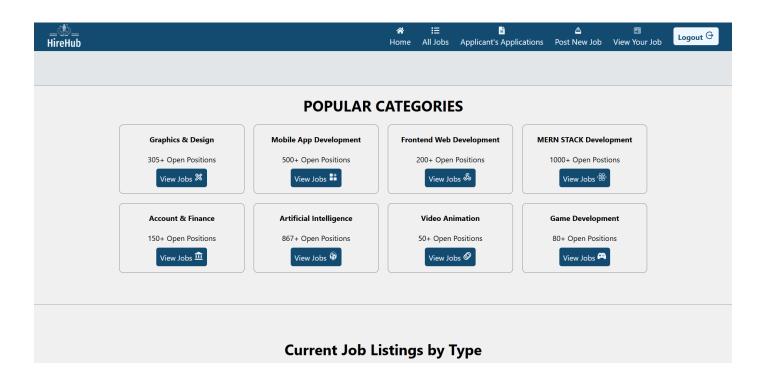
- Successfully Login:

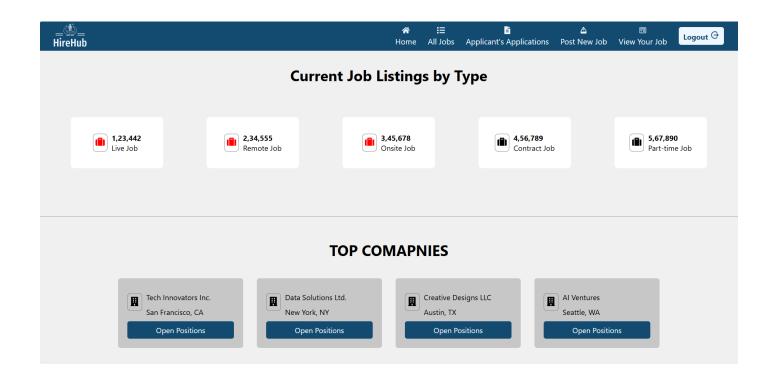


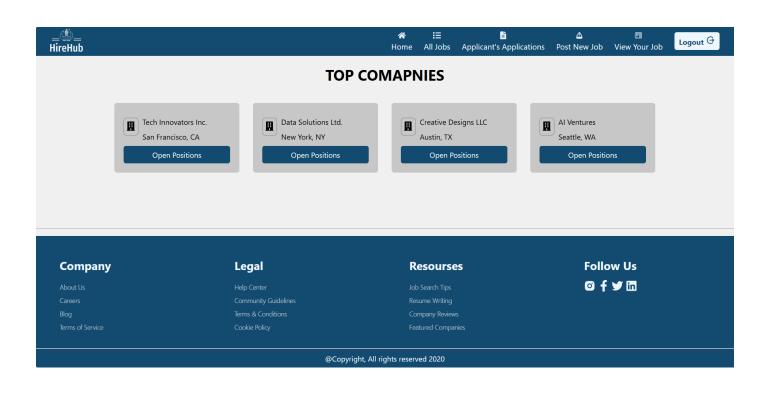
• 7.1 : Employer Panel:

• Home Page:



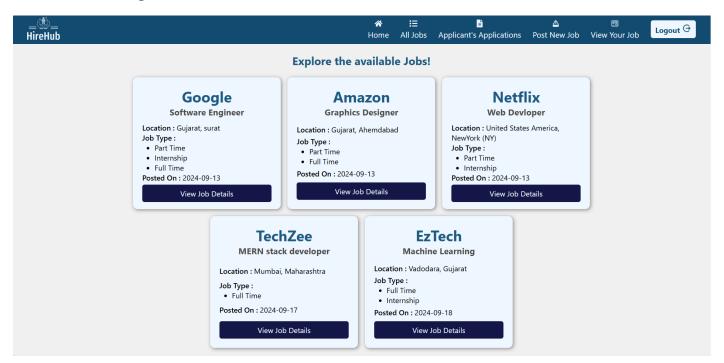




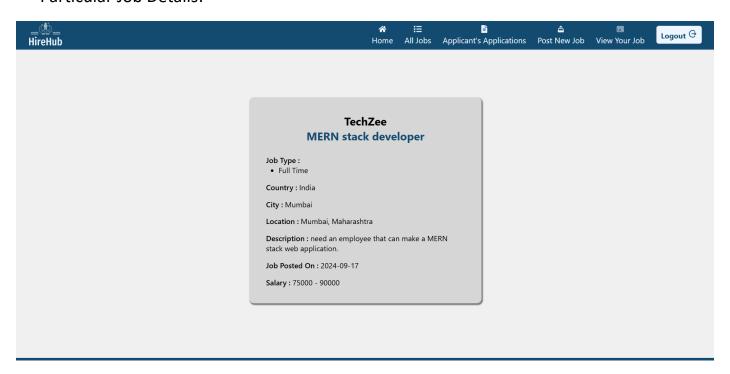


View All Jobs

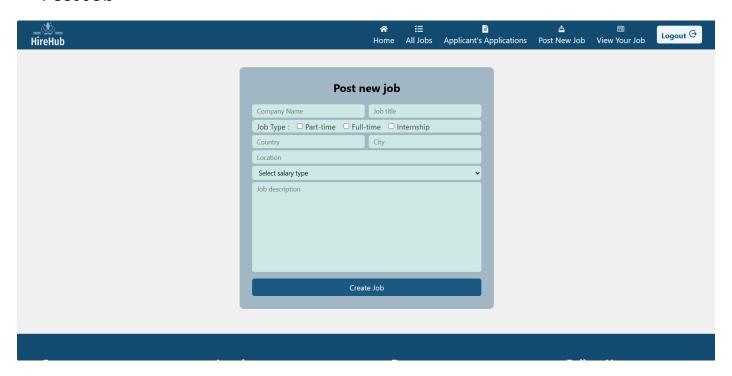
All Jobs Listing:

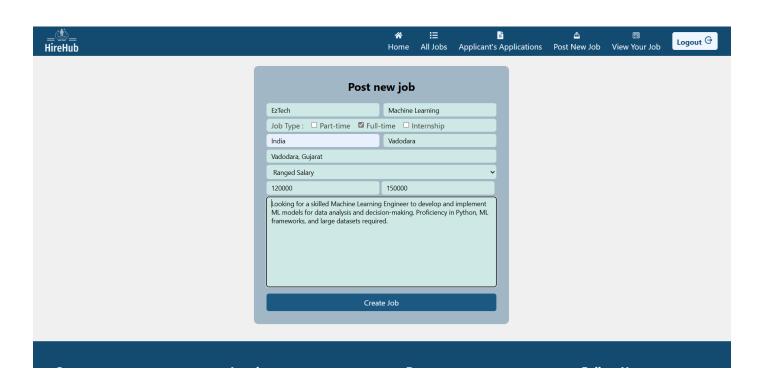


- Particular Job Details:

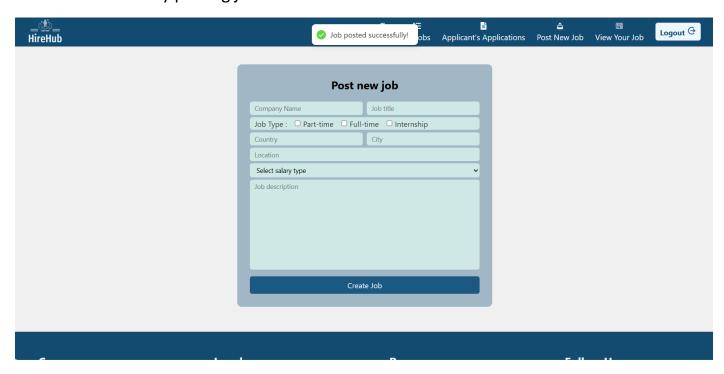


Post Job

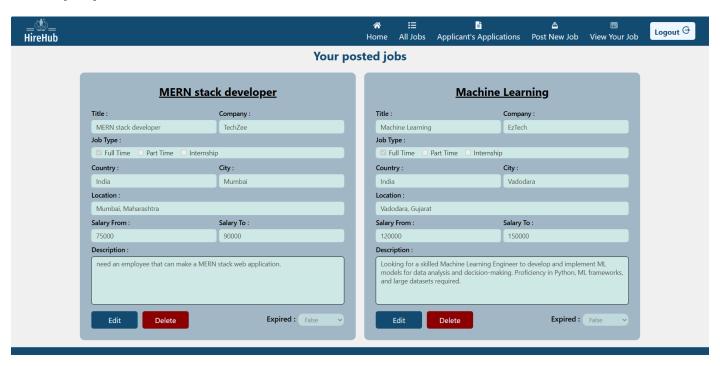




- After successfully posting job:

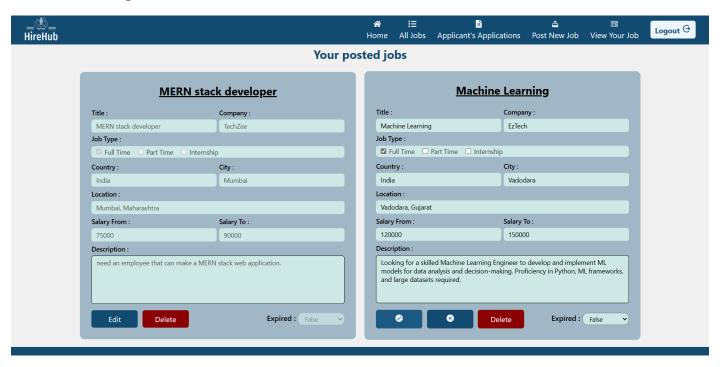


• Employer's Posted Jobs:

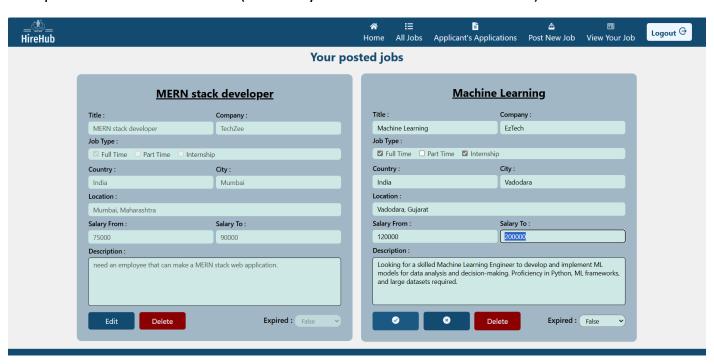


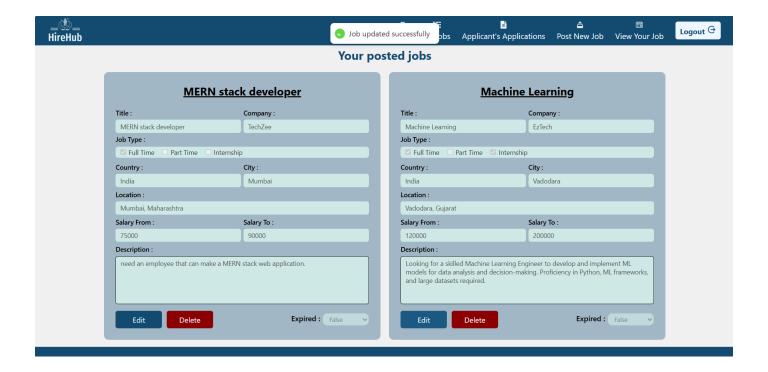
• Edit Job:

After clicking on "Edit" button:

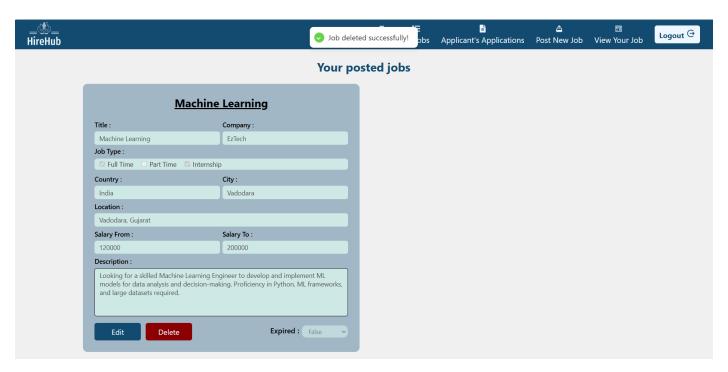


- Update records as needed: (Ex: salary before:150000 after:200000)

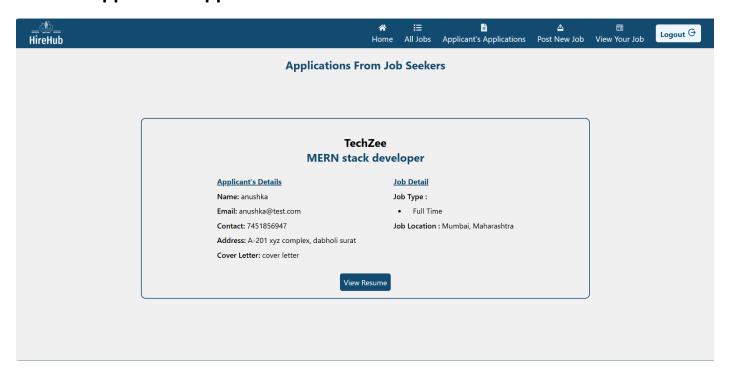




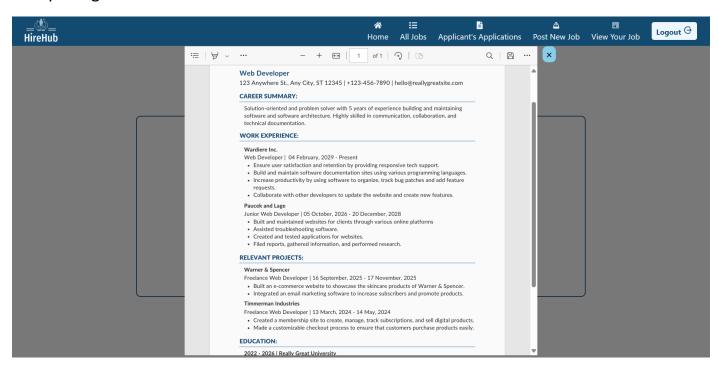
Delete Job



• View Applicant's Applications:

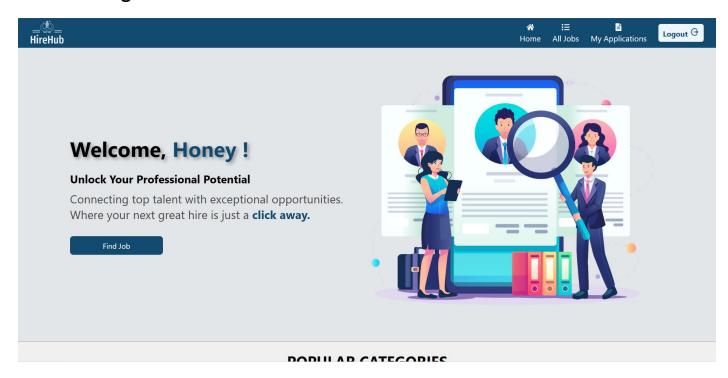


- Opening resume:



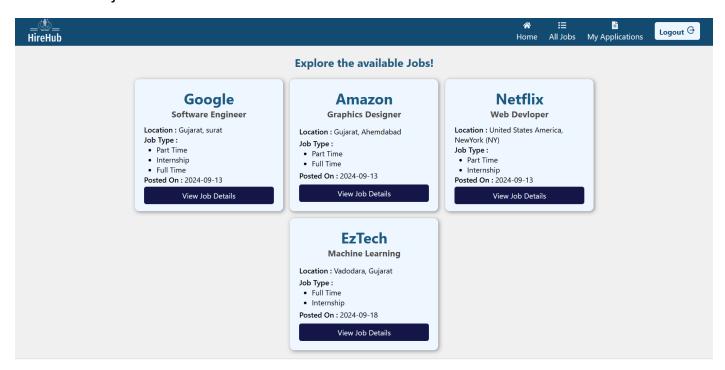
• 7.2 : Job Seeker Panel:

• Home Page:

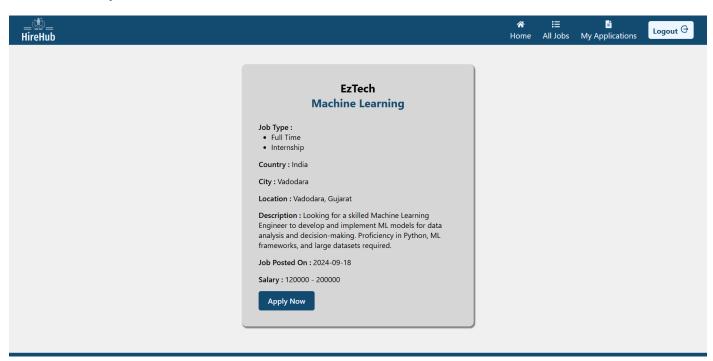


All Available Jobs:

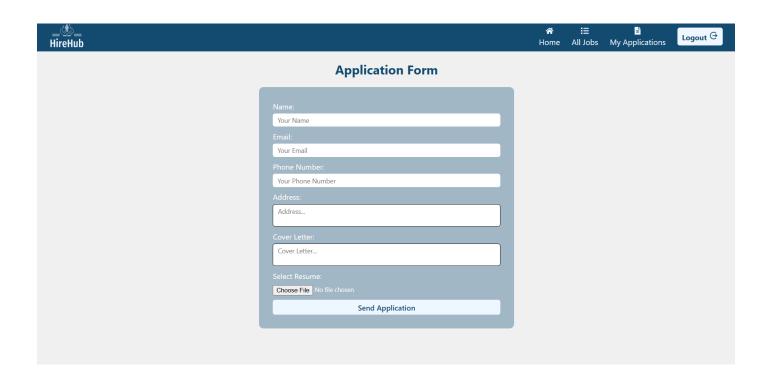
- Available jobs:

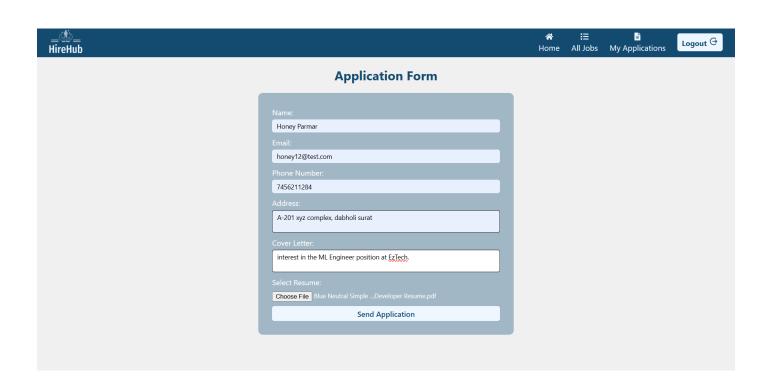


- Particular job Details:

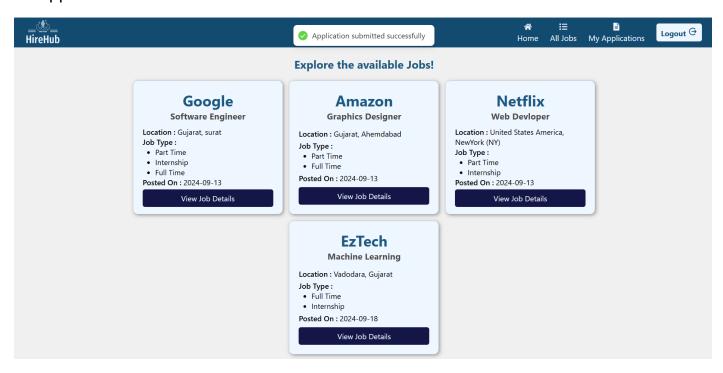


• Apply for Job:

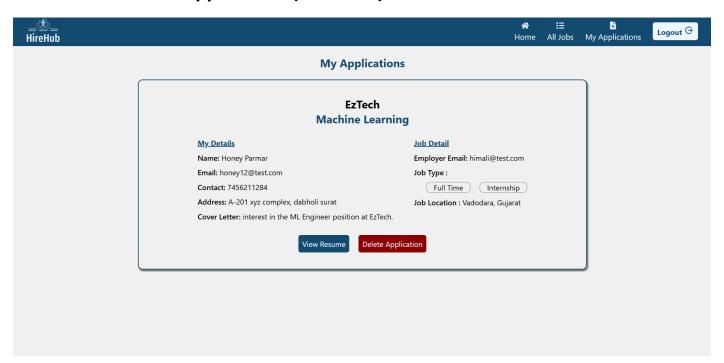


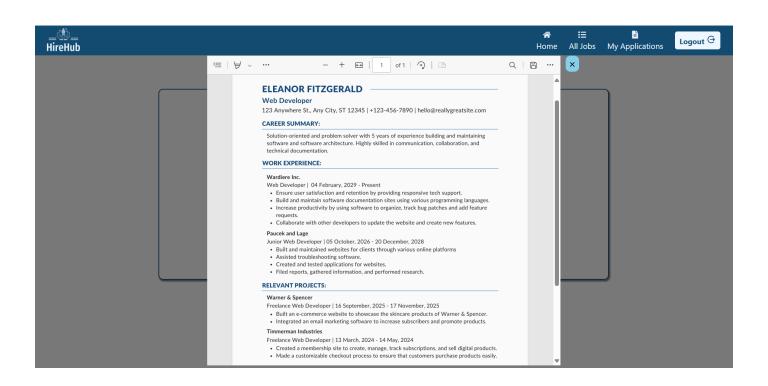


- Application Submitted:



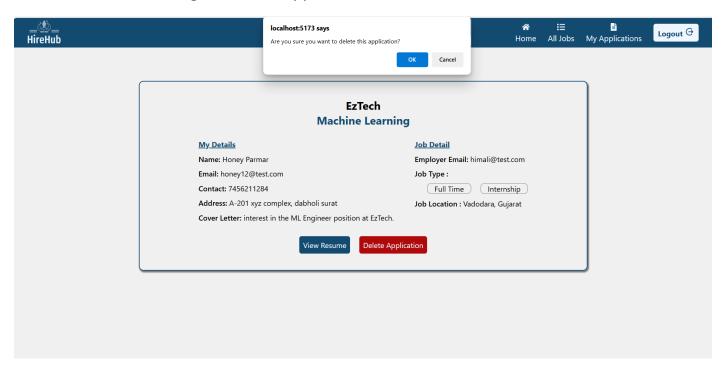
View Submitted Applications(Resumes):



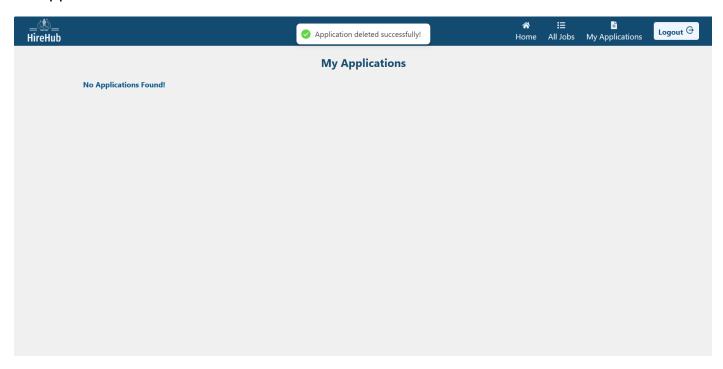


• Delete Application:

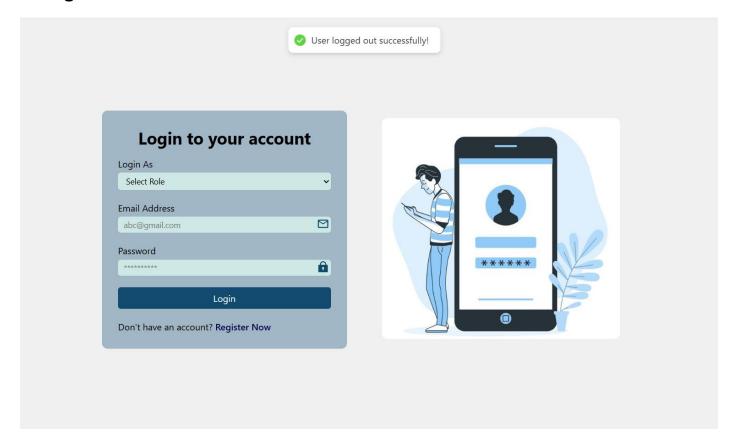
- Confirmation message to delete application:



- Application deleted:



• Logout:



GitHub Link for Code:

https://github.com/parmarHimali/Job-seeking-application/