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Project Description:

JobZee - Job Posting Platform

Overview

JobZee is a web application designed to bridge the gap between employers and job seekers. It enables employers to post and manage job listings, while job seekers can browse, save, and apply for jobs effortlessly. The Frontend is live on **localhost:5173**.

Technologies Used

The application is developed using HTML, CSS, and JavaScript for the frontend, with a robust backend and MongoDB database to handle user data and job listings.

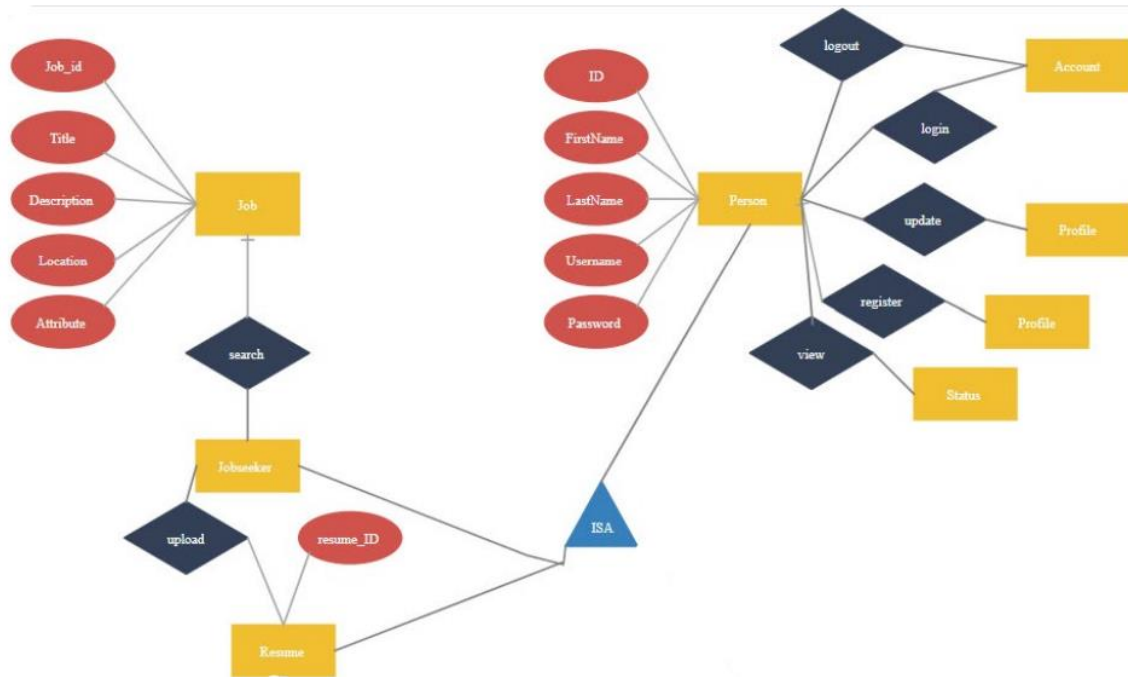
Features

JobZee allows employers to create detailed job listings, update them as needed, and manage applications through an intuitive dashboard. Job seekers can browse various job opportunities, apply directly, and save listings for future reference. The application supports real-time notifications to keep users informed about the latest job postings and application updates.

- Employers can create, update, and manage job postings.
- Job seekers can search for jobs and apply directly through the platform.
- Secure user authentication ensures data privacy and security.

JobZee is a responsive and user-friendly platform aimed at streamlining the recruitment process.

ERD



Prerequisites:

To run this project locally, you will need to have the following software installed:

1. Node.js: JavaScript runtime built on Chrome's V8 JavaScript engine.
2. npm (Node Package Manager): Comes with Node.js, used for managing Dependencies.
3. MongoDB: NoSQL database used for storing application data.

Backend (Node.js with Express.js)

Express: Fast, unopinionated, minimalist web framework for Node.js.

Mongoose: Elegant MongoDB object modeling for Node.js.

Dotenv: Module to load environment variables from a .env file.

Frontend (React.js)

react: JavaScript library for building user interfaces.

react-dom: Entry point of the DOM-related rendering paths.

react-router-dom: DOM bindings for React Router.

axios: Promise based HTTP client for the browser and node.js.

redux: Predictable state container for JavaScript apps.

react-redux: Official React bindings for Redux.

redux-thunk: Thunk middleware for Redux.

Development Tools

nodemon: Utility that will monitor for any changes in your source and automatically restart your server.

Database

This project uses MongoDB as its database. MongoDB is a NoSQL database which stores data in JSON-like documents with flexible schemas. This allows for easy and fast storage and retrieval of data, making it a great choice for web applications.

Setting Up the Database:

1. Install MongoDB: Follow the [official MongoDB installation guide) to install MongoDB on your machine.
2. Start MongoDB: Run the following command to start MongoDB.

Project Structure:

The project is structured as follows:

backend: Contains the server-side code (Express.js).

controllers: Functions to handle routes logic.

models: Mongoose schemas and models.

routes: Express route definitions.

middlewares: Custom middleware functions.

config: Configuration files (e.g., database connection).

frontend: Contains the client-side code (React.js).

components: React components.

pages: Different pages of the application

How to Run the Project

Installing Dependencies

For the backend:

```
cd backend
```

```
npm install
```

For the frontend:

```
cd frontend
```

```
npm install
```

Run the Server:

Start the backend server:

```
cd backend
```

```
npm run dev
```

Start the frontend server:

```
cd frontend
```

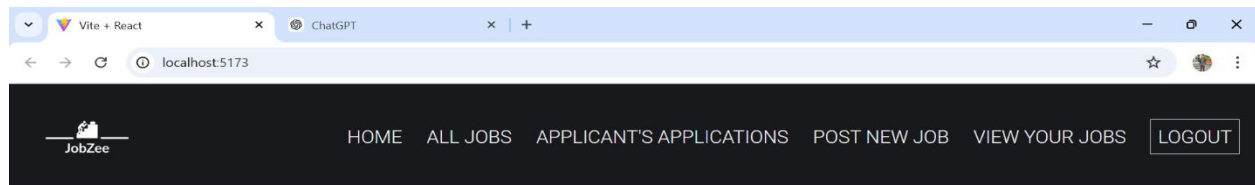
```
npm run dev
```

Access the Application

Open your browser and navigate to `http://localhost:5173` to access the application.

Frontend:

HomePage:



Find a job that suits your interests and skills

"Words, carefully chosen, carry meaning that touches the essence of brilliance and responsibility."

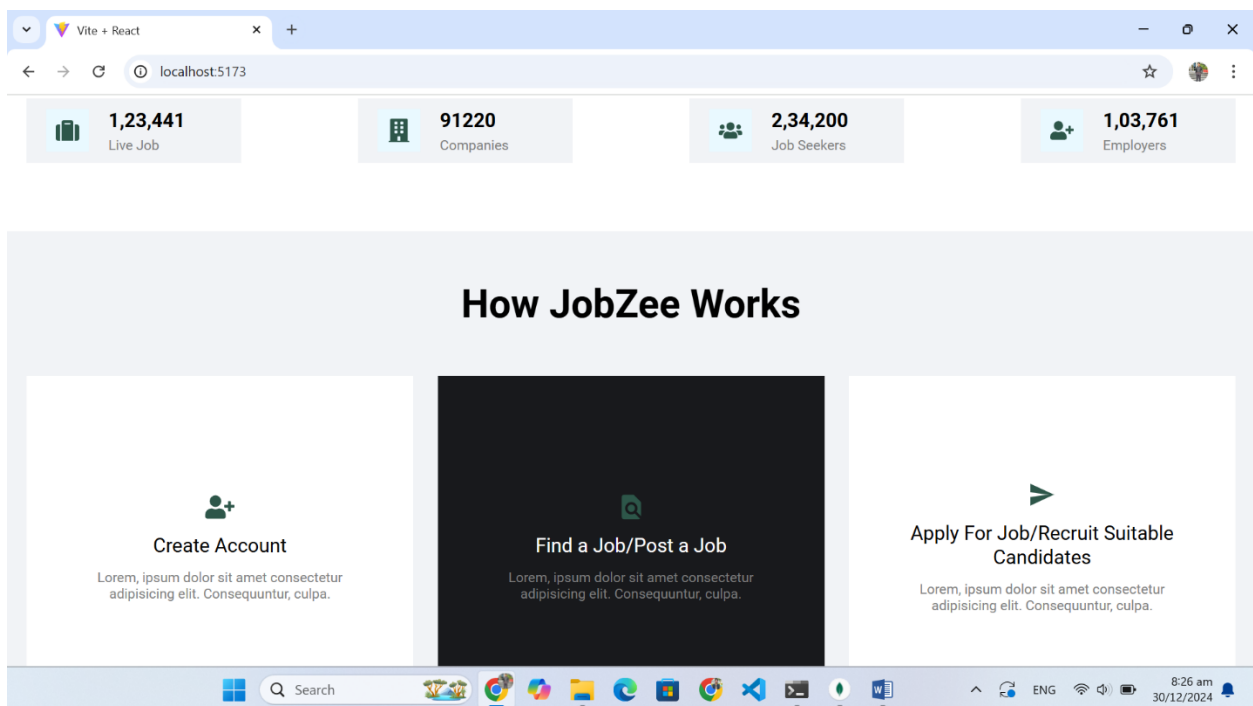


How JobZee Works:

Here we:

- Create Account.
- Find a Job / Post a Job
- Apply For Job / Recruit Suitable Candidate.

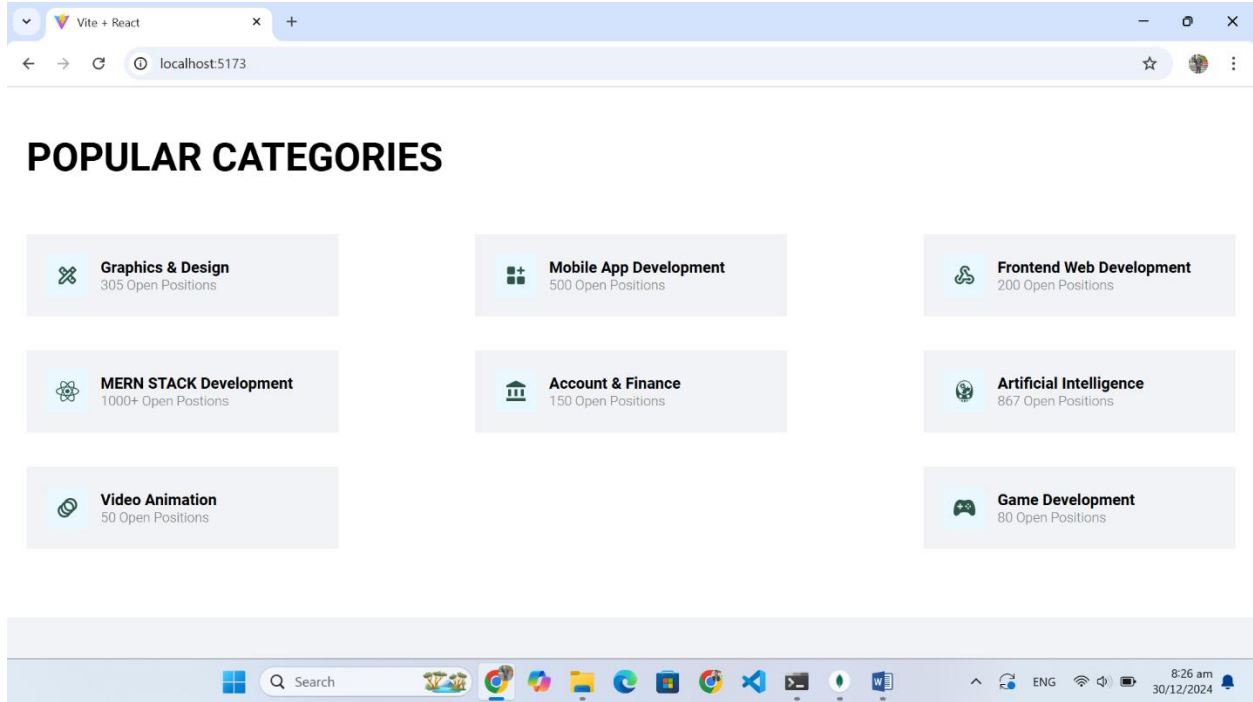
This Page also show the availability of employees , Jobs , companies and Job Seekers.



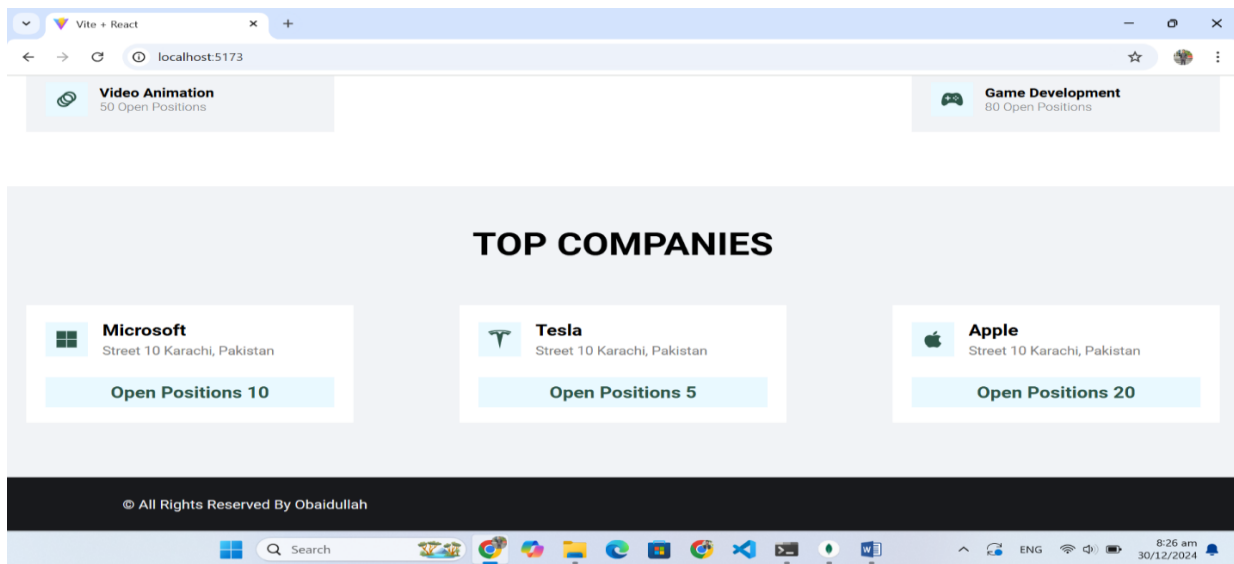
Popular Categories:

- Graphic & Design
- Mobile App Development
- Front Web Development
- MERN STACK Development
- Account & Finance
- Artificial Intelligence

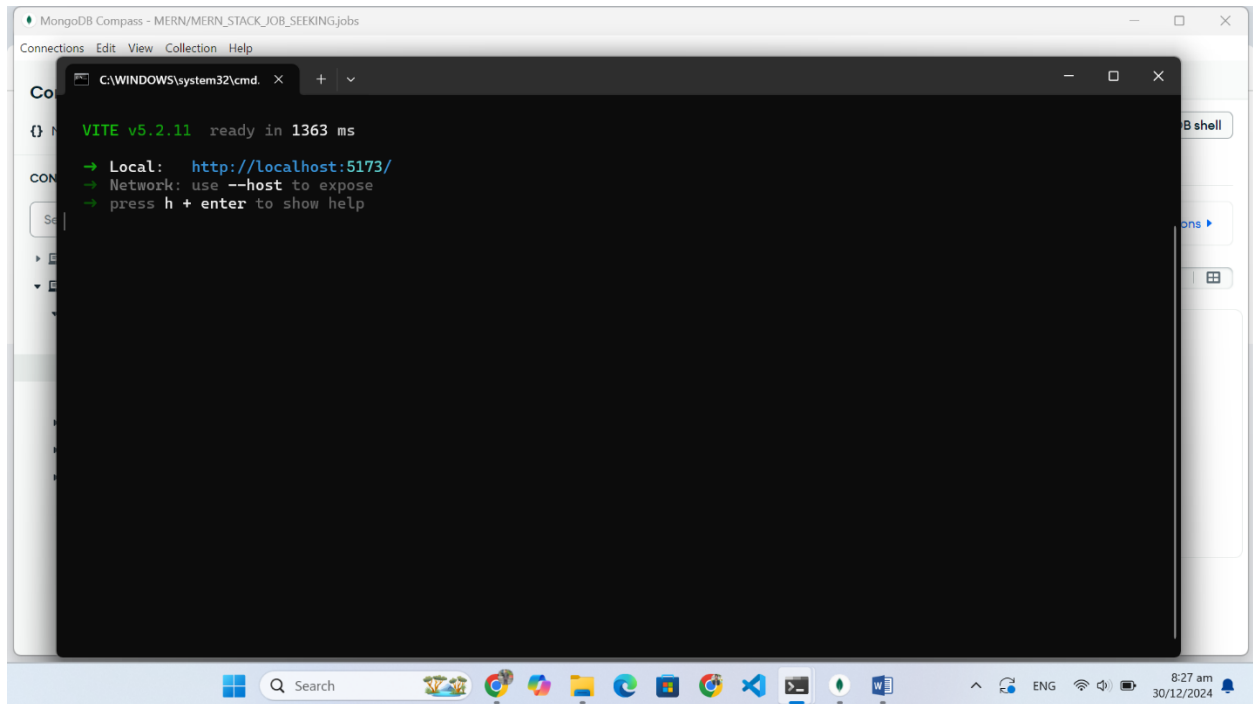
- Video Animation
- Game Development



Footer:

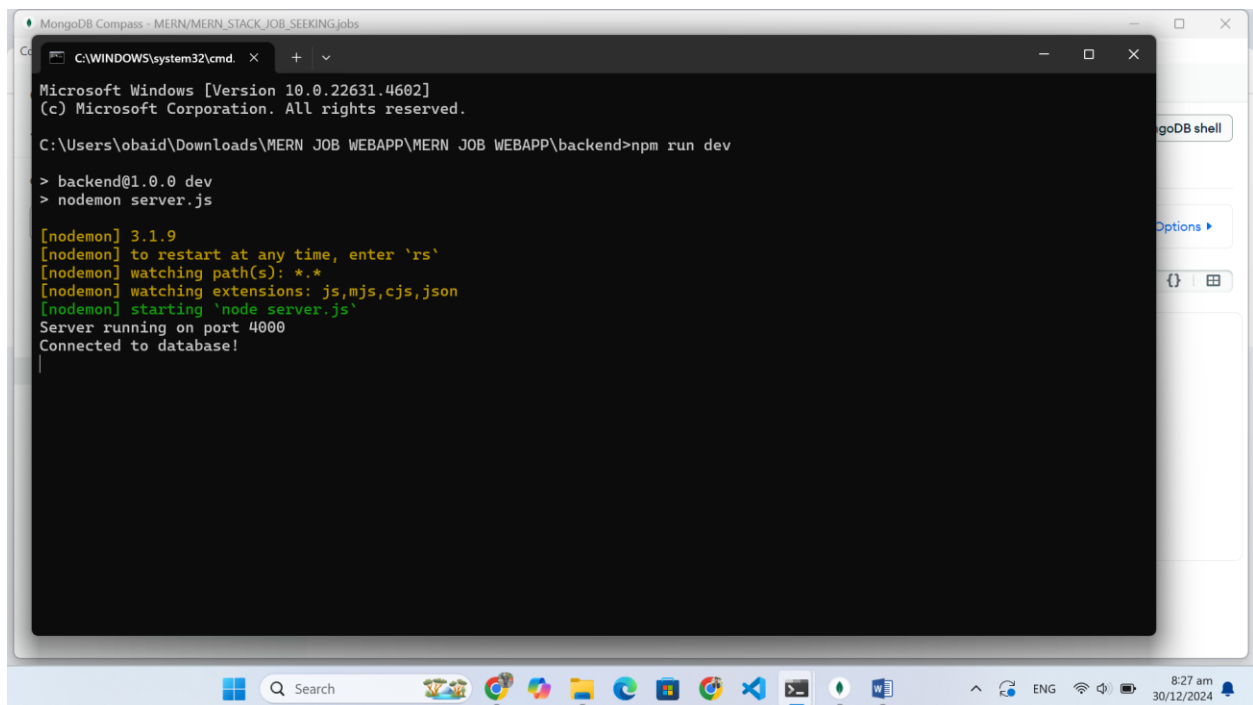


CMD working for Loading Frontend:



```
C:\WINDOWS\system32\cmd.
VITE v5.2.11 ready in 1363 ms
→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

CMD working for Loading Backend:



```
C:\WINDOWS\system32\cmd.
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\obaid\Downloads\MERN JOB WEBAPP\MERN JOB WEBAPP\backend>npm run dev

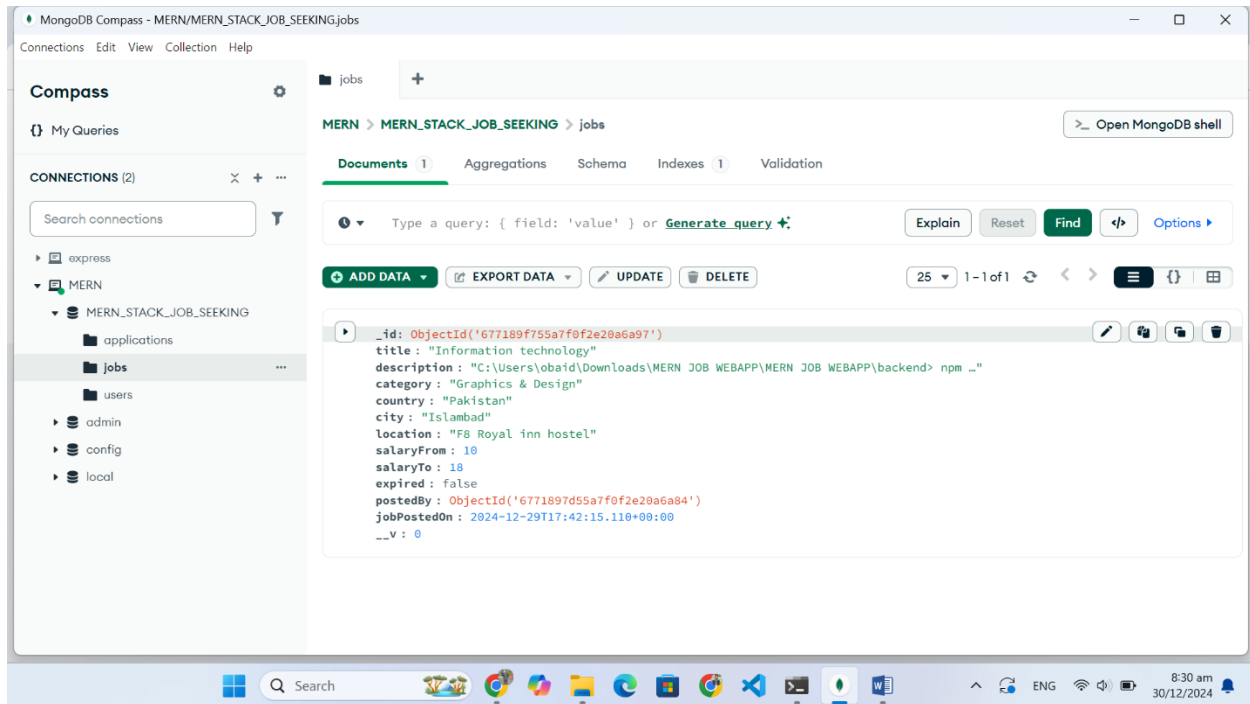
> backend@1.0.0 dev
> nodemon server.js

[nodemon] 3.1.9
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting 'node server.js'
Server running on port 4000
Connected to database!
```

DATABASE: MongoDB

Collections are:

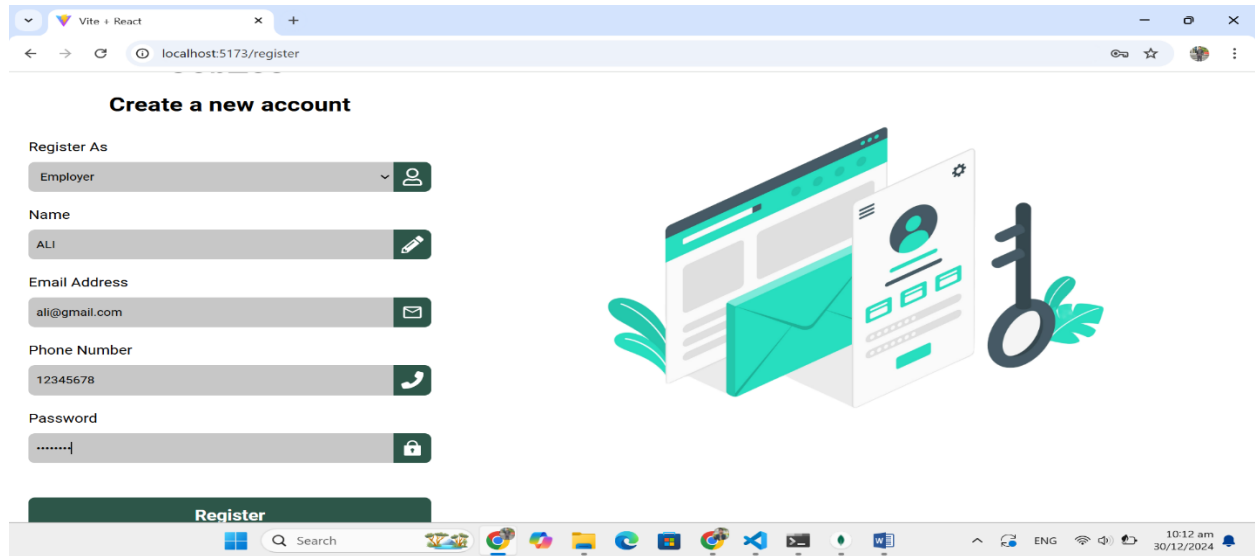
- Applications
- Users
- Jobs



Flow of the Whole Application:

How to Create an account :

As an Employer:

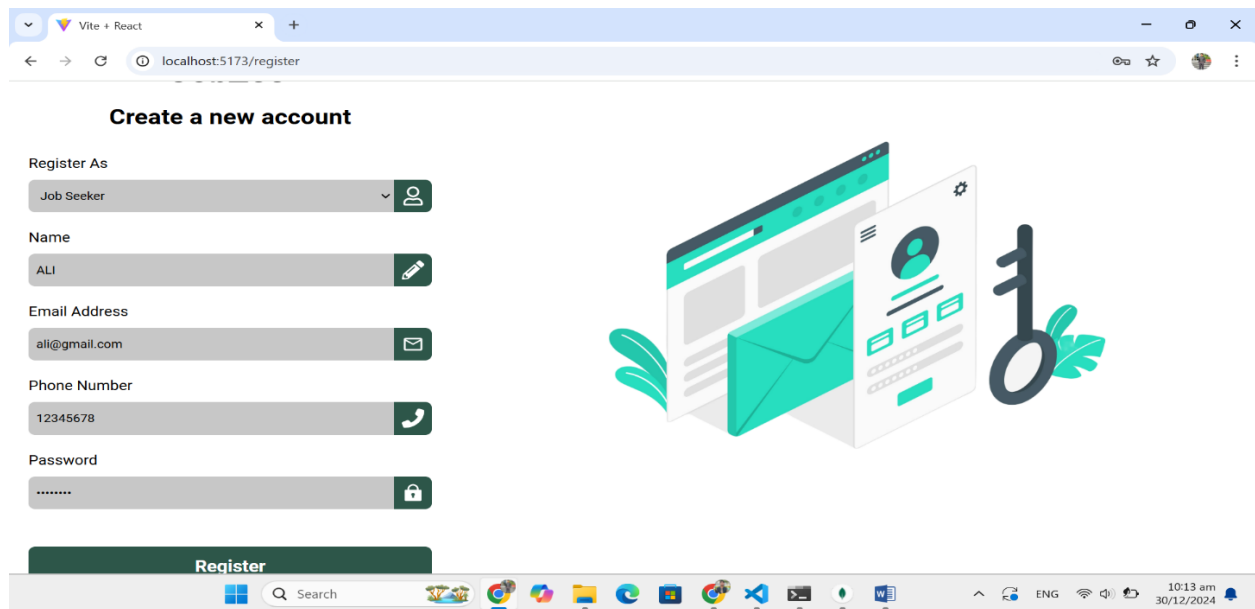


The screenshot shows a web browser window with the address bar displaying 'localhost:5173/register'. The page title is 'Vite + React'. The main heading is 'Create a new account'. Below this, there is a form with the following fields:

- Register As:** A dropdown menu with 'Employer' selected and a user icon.
- Name:** A text input field with 'ALI' entered and a pencil icon.
- Email Address:** A text input field with 'ali@gmail.com' entered and an envelope icon.
- Phone Number:** A text input field with '12345678' entered and a phone icon.
- Password:** A text input field with '.....' entered and a lock icon.

At the bottom of the form is a green button labeled 'Register'. To the right of the form is a decorative illustration featuring a teal envelope, a smartphone displaying a user profile, and a large black key with a teal leaf.

As a Job Seeker:

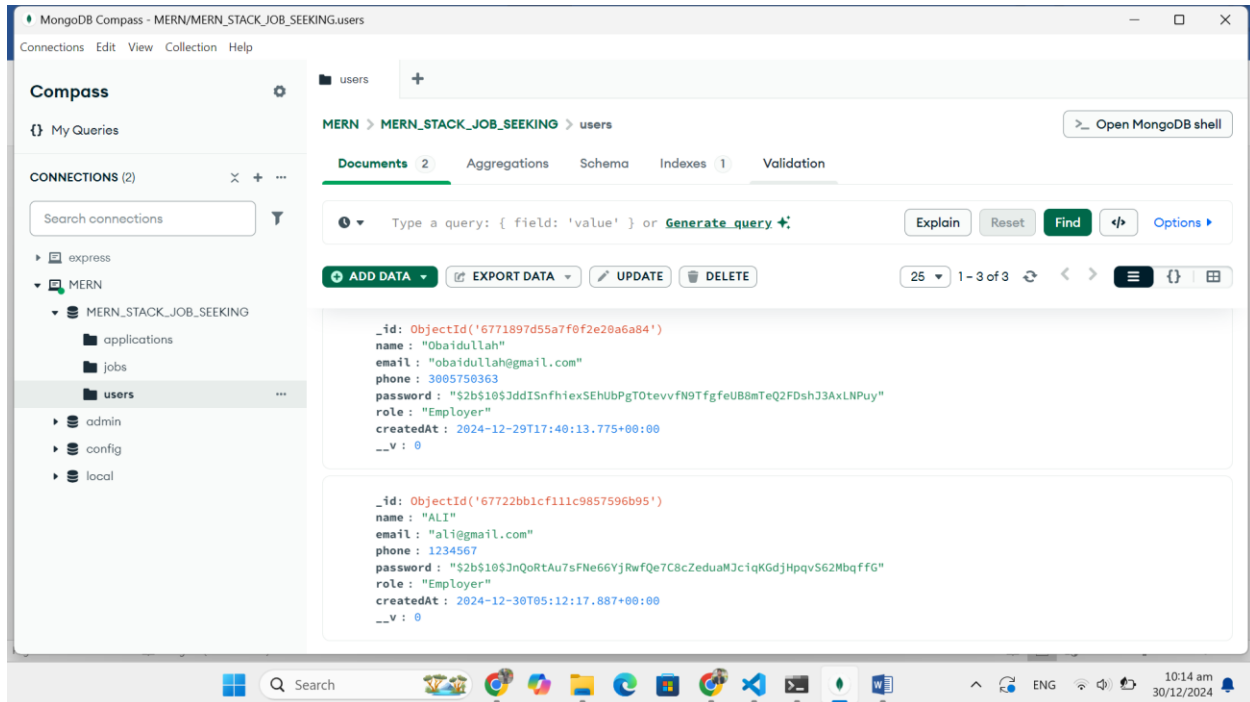


The screenshot shows a web browser window with the address bar displaying 'localhost:5173/register'. The page title is 'Vite + React'. The main heading is 'Create a new account'. Below this, there is a form with the following fields:

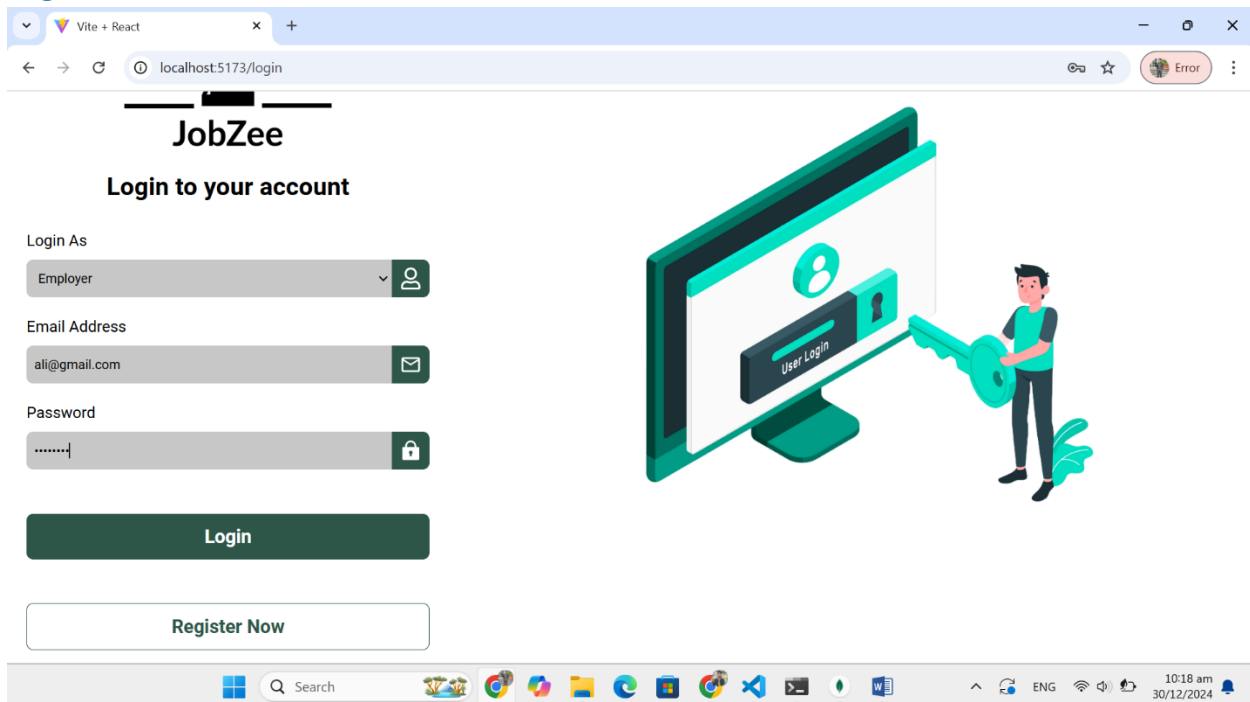
- Register As:** A dropdown menu with 'Job Seeker' selected and a user icon.
- Name:** A text input field with 'ALI' entered and a pencil icon.
- Email Address:** A text input field with 'ali@gmail.com' entered and an envelope icon.
- Phone Number:** A text input field with '12345678' entered and a phone icon.
- Password:** A text input field with '.....' entered and a lock icon.

At the bottom of the form is a green button labeled 'Register'. To the right of the form is a decorative illustration featuring a teal envelope, a smartphone displaying a user profile, and a large black key with a teal leaf.

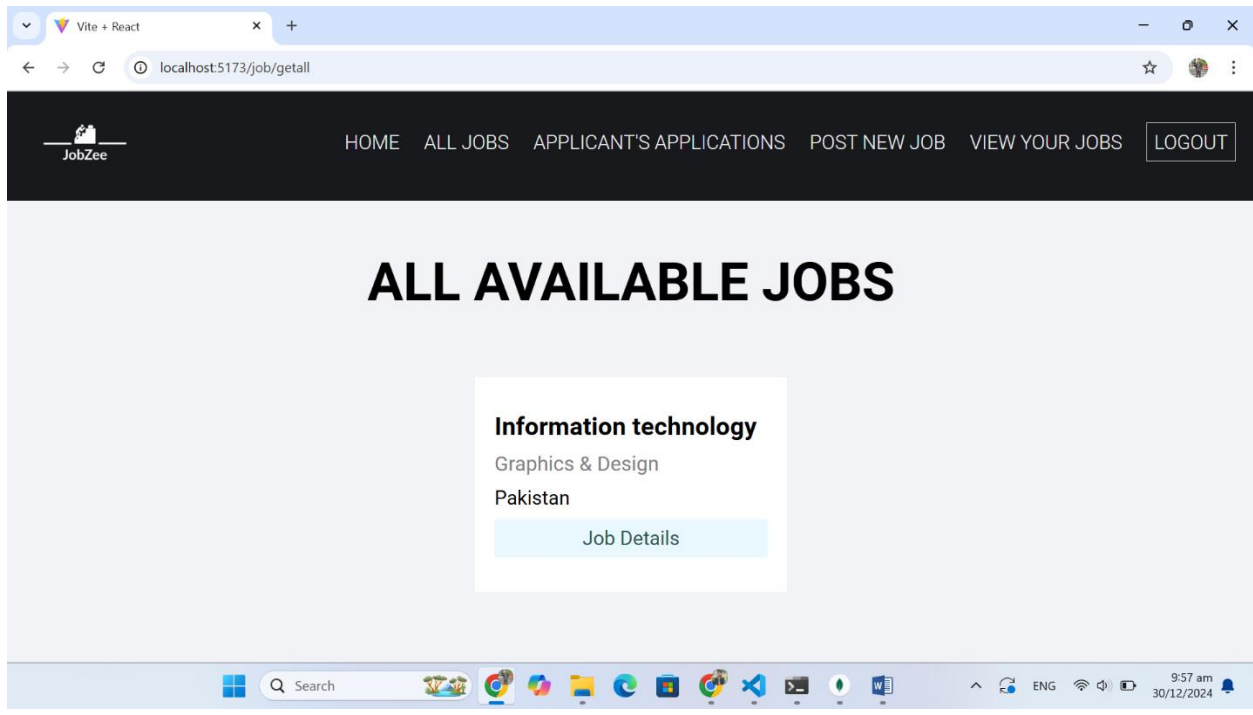
Data Inserted in Database:



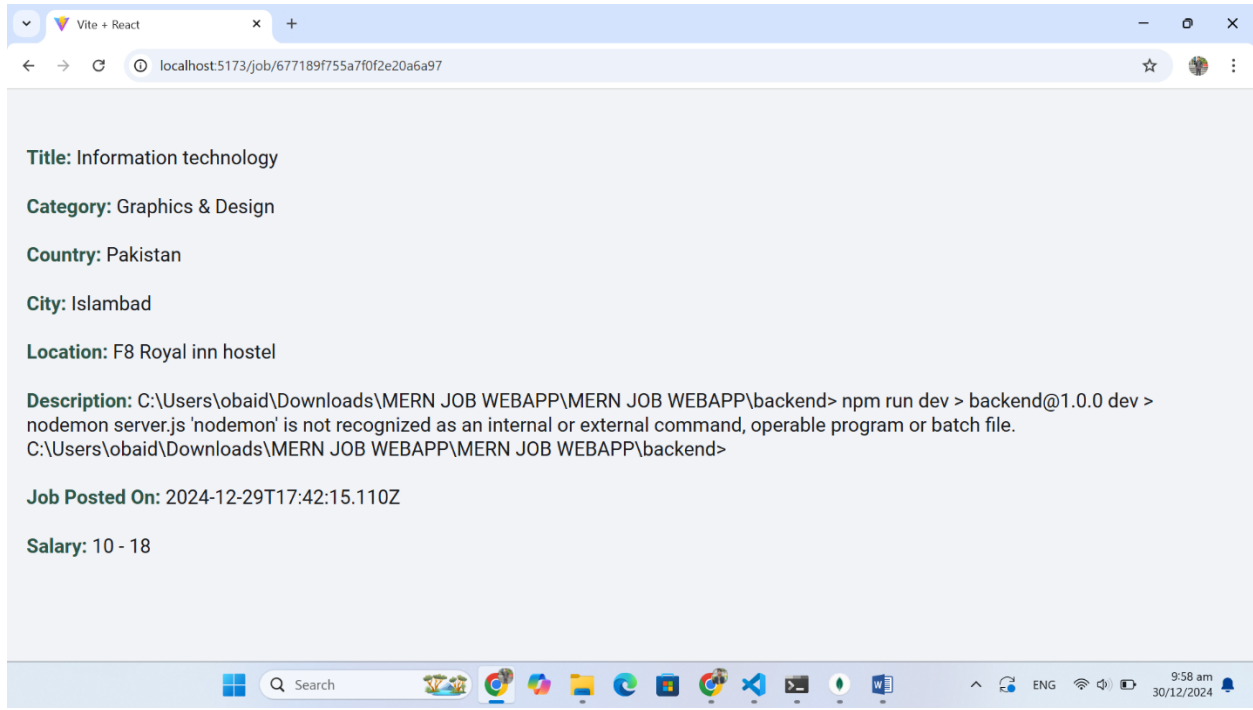
Login to an account :



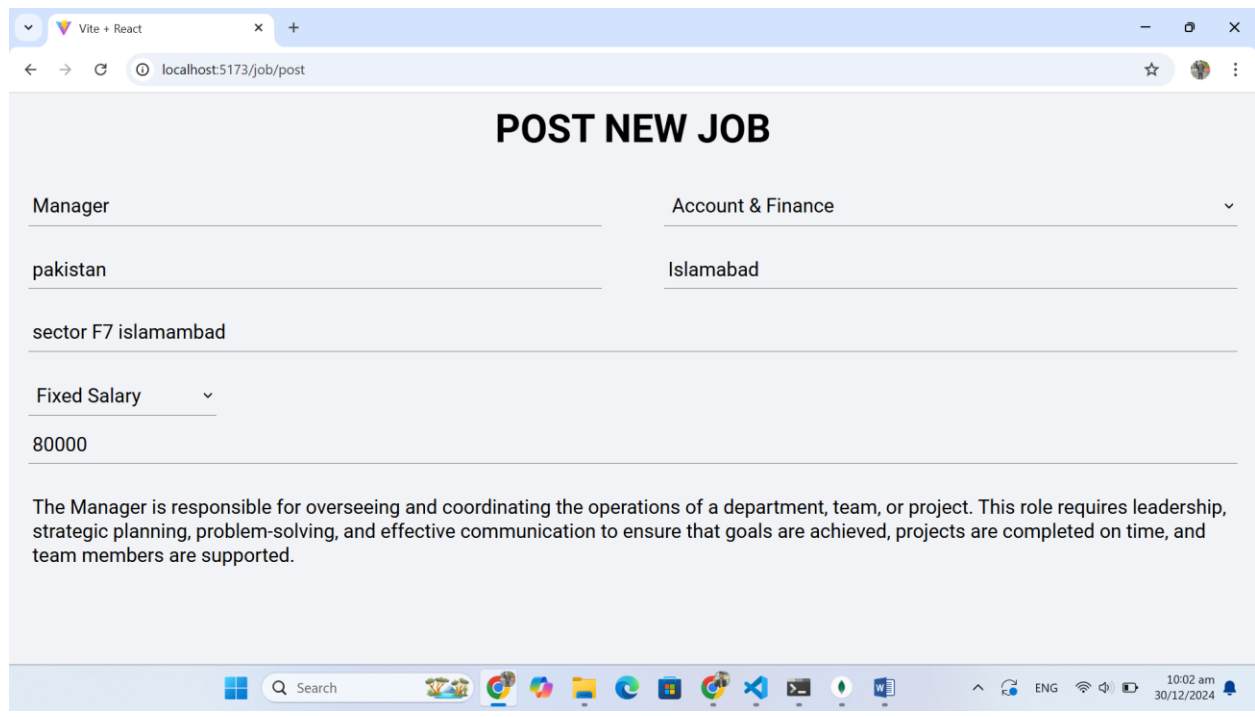
Available Jobs:



1



How to Post a New Job:



POST NEW JOB

Manager

Account & Finance

pakistan

Islamabad

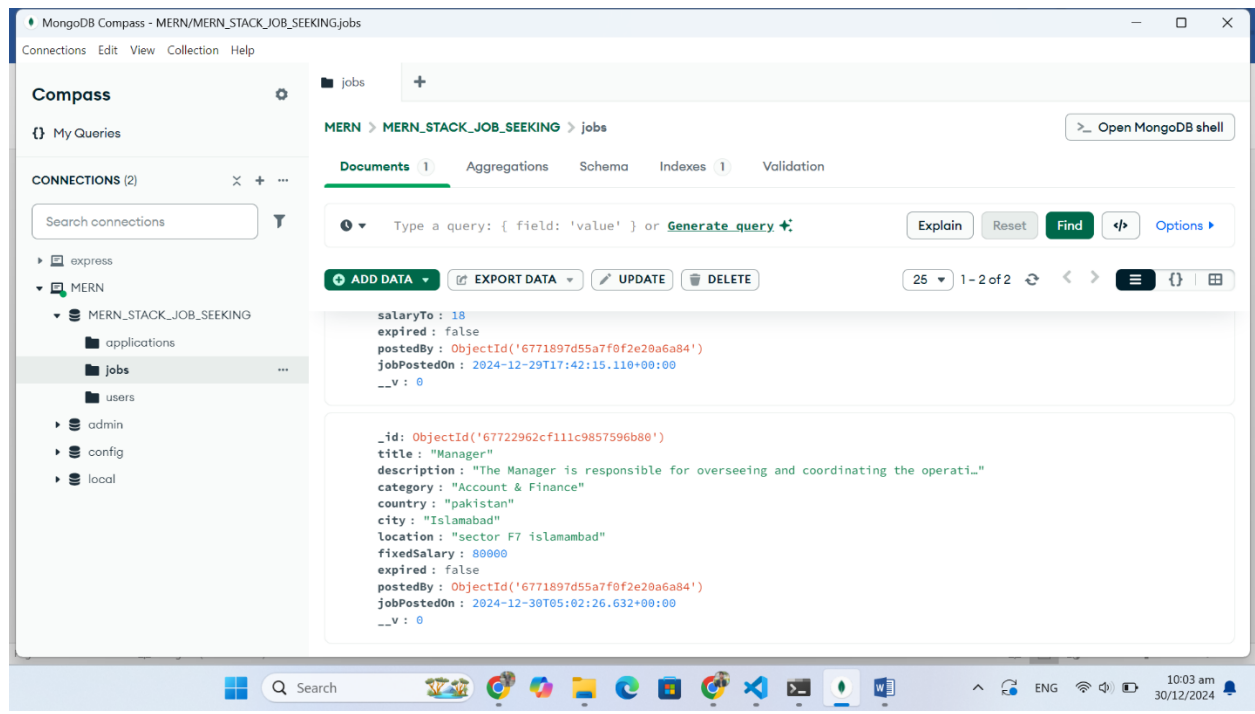
sector F7 islamambad

Fixed Salary

80000

The Manager is responsible for overseeing and coordinating the operations of a department, team, or project. This role requires leadership, strategic planning, problem-solving, and effective communication to ensure that goals are achieved, projects are completed on time, and team members are supported.

Job Inserted in the Database:



MongoDB Compass - MERN/MERN_STACK_JOB_SEEKING/jobs

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (2)

Search connections

express

MERN

MERN_STACK_JOB_SEEKING

applications

jobs

users

admin

config

local

MERN > MERN_STACK_JOB_SEEKING > jobs

Documents 1 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE

25 1 - 2 of 2

```
salaryTo: 18
expired: false
postedBy: ObjectId('6771897d55a7f0f2e20a6a84')
jobPostedOn: 2024-12-29T17:42:15.110+00:00
__v: 0
```

```
_id: ObjectId('67722962cf11c9857596b80')
title: "Manager"
description: "The Manager is responsible for overseeing and coordinating the operati..."
category: "Account & Finance"
country: "pakistan"
city: "Islamabad"
location: "sector F7 islamambad"
fixedSalary: 80000
expired: false
postedBy: ObjectId('6771897d55a7f0f2e20a6a84')
jobPostedOn: 2024-12-30T05:02:26.632+00:00
__v: 0
```

All Posted Jobs:

We can also Edit or Delete the Posted Job.

Vite + React

localhost:5173/job/me

Your Posted Jobs

Title: Information technology	Description: 'nodemon' is not recognized as an internal or external command, operable program or batch file. C:\Users\obaid\Downloads\MERN JOB WEBAPP\MERN JOB WEBAPP\backend>	<div>EDIT</div> <div>DELETE</div>
Country: Pakistan		
City: Islambad	Location: F8 Royal inn hostel	
Category: Graphics & Design		
Salary: 1018		
Expired:		

Search

10:04 am 30/12/2024

Vite + React

localhost:5173/job/me

Title: Manager	Description: The Manager is responsible for overseeing and coordinating the operations of a department, team, or project. This role requires leadership, strategic planning, problem-solving, and effective communication to ensure that goals are achieved, projects are completed on time, and team members are supported.	<div>EDIT</div> <div>DELETE</div>
Country: pakistan		
City: Islamabad	Location: sector F7 islamambad	
Category: Account & Finance		
Salary: 80000		
Expired: FALSE		

Search

10:04 am 30/12/2024