



# JEPPIAAR ENGINEERING COLLEGE



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## FREELANCING APPLICATION USING MERN

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# INTRODUCTION :

- Freelancing is the reshaping modern work culture with flexibility and goal access.
- Our app bridges the gap between freelancers and clients effortlessly.
- Features like smart job matching , secure payments , and collaboration tools.
- Focused on creating a trustworthy and efficient platform for all users.

# PROJECT OVERVIEW :

## **Objective :**

Develop a user – friendly platform to connect freelancers and clients.

## **Key Features:**

- Simple registration and profile creation for users.
- Basic job posting and application functionalities

## **Target Users :**

Freelancers and businesses across various industries.

## **Outcome :**

Simplify freelancing processes, ensuring accessibility and reliability

# ARCHITECTURE:

The freelancing application is built using three parts :

## **Frontend (client) :**

A react app users interact with for tasks like logging in, browsing projects and managing dashboards.

Send requests to the backend for data or actions.

## **Backend (Server) :**

A Node.js/Express server that handles all business logic process requests from the frontend (eg: login checks, project updates) and sends responses.

## **Database :**

**Users :** Stores user data.

**Freelancer / Admin :** Stores their profiles and works.

**Project list :** Stores new project, completed projects and active projects.

# How it works :

## **User Interaction :**

Users use the app to log in, browse projects and manage profiles.

## **Data Requests :**

The app (frontend) send requests to the server (backend) for data or actions

## **Server Processing :**

The backend processes requests and retrieves or updates data in the database.

## **Response :**

The server sends the data back to the app to update what the user sees.



**Architecture Diagram**

# Set Up Instruction

## 1 . Pre requisities :

Install Node.js , MongoDB and Git .

## 2 . Clone Repository :

git clone <https://github.com/freelancing-application-mern.git>

cd freelancing application mern

## 3 . Install Dependencies :

Backend (Server ) – cd server

npm install

Frontend (Client ) – cd ../client

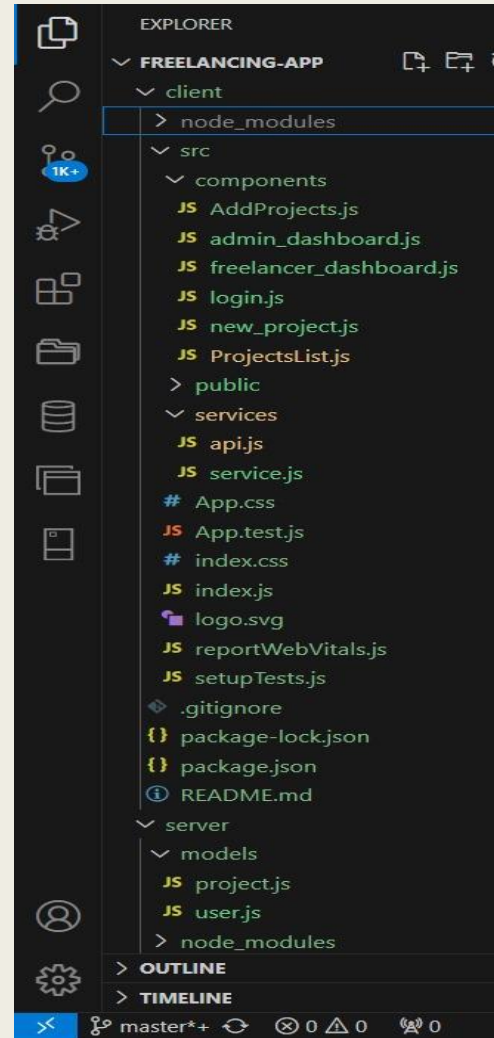
npm install

## 4 . Setup environment :

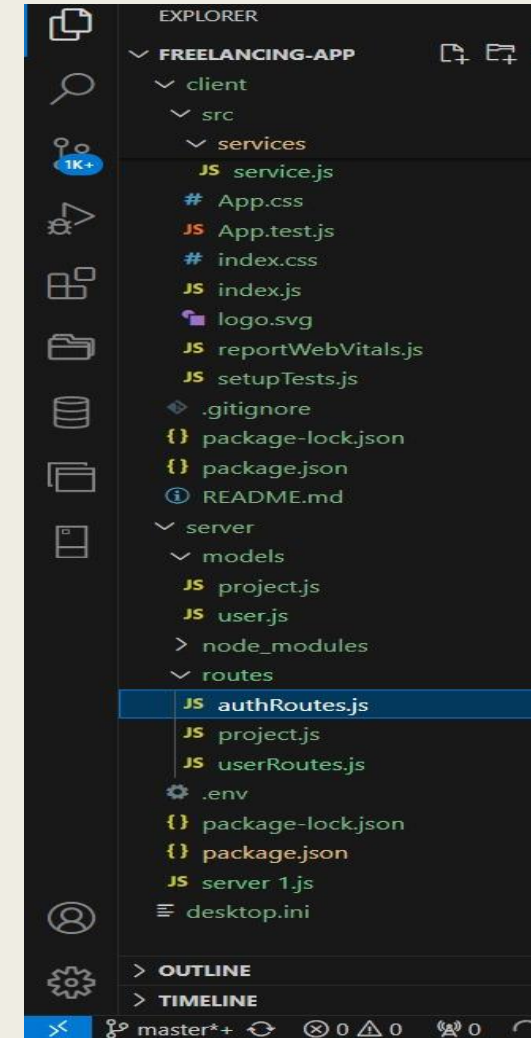
.env

# FOLDER STRUCTURE :

## Frontend



## Backend



# RUNNING THE APPLICATION :

Start the server ( Backend ):

```
cd server  
npm run dev
```

Start the client ( Frontend ):

```
cd client  
npm start
```

Access the Application :

Frontend : <http://localhost:3000>

Backend : <http://localhost:5000>



# API DOCUMENTATION :

An API (Application Programming Interface) is like a bridge that helps frontend and backend to communicate with each other.

**Tools used :** Express.js, Mongo DB

**Endpoints :**

**User management :**

POST / register : Register new users

POST / login : Authenticate users

GET / profile : Fetch user details

**Project listings :**

GET / projects : Retrieve available projects

POST / projects : Add a new project

PUT / projects/:id Update project details

# AUTHENTICATION :

Authentication ensures only registered users can access the application. It verifies a user's identity with credentials like email and password.

## **User Registration**

**Purpose:** Create a new user account.

**Example:**

Input: Name: "John", Email: "john@example.com", Password: "123456"

Output: "Registration successful!"

## **User Login**

**Purpose:** Access user account.

**Example:**

Input: Email: "john@example.com", Password: "123456"

Output: "Login successful!"

## **Session Management**

**Purpose:** Maintain user authentication during the session.

**Process:**

JWT (JSON Web Token) issued on login.

Token is stored in the browser (e.g., local storage).

# TESTING :

## Manual Testing:

**Purpose:** Test the app like a real user (clicking buttons, filling forms).

**Tools used:** No tools required

## API Testing:

**Purpose:** Ensure backend endpoints work (e.g. /login, /projects).

**Tools used:** Postman.

```
npm install -g newman
```

## UI Testing:

**Purpose:** Verify the interface looks and works correctly (buttons, forms, links).

**Tools used:** Browser Developer Tools

# OUTPUT :

## Login

## Project List

[Build a Freelance Platform - \\$500](#)

[Design a Portfolio Website - \\$200](#)

## I'm a freelance writer and blogger

After working in IT for many years, I'm now a full-time freelance writer, helping people get more exposure and generate more leads for their businesses.

Image from Freepik

## Project Title: Build a Freelance Platform

**Description:** A platform to connect freelancers with clients.

**Budget:** \$500

**Status:** Open

## Admin Dashboard

Welcome, Admin!

- [Manage Projects](#)
- [Manage Freelancers](#)

## Freelancer Dashboard

Welcome, Freelancer!

- [Create New Project](#)
- [View Project List](#)

## Create a New Project

Personal Blog Setup

Set up a personal blog for sharing articles, stories, or hobbies. The blog should include a homepage with recent posts, an "About Me" page, and individual pages for each blog post. It should be simple to navigate and easy for the user to add new posts.

200

Submit

# FUTURE ENHANCEMENTS :

- 1 . Payment Gateway
- 2 . AI Recommendation
- 3 . Rating System
- 4 . Dark Mode Customization



*Thank You*