

# Full Stack Development with MERN

## AJ Works – Freelancing Platform

### 1. Introduction

- **Project Title:** AJ Works – Freelancing Platform

AJ Works is a dynamic full-stack freelancing marketplace built using the MERN stack. It connects freelancers with clients across various industries, including creative design, development, content writing, and technical services. The platform focuses on simplifying project posting, bidding, communication, and delivery through an intuitive, user-friendly interface.

The platform also supports real-time notifications, chat messaging, and a file-submission workflow, making collaboration seamless. AJ Works demonstrates practical implementation of complex multi-role systems, scalable backend design, and enterprise-level UI development.

### 2. Project Overview

- **Purpose:** The purpose of AJ Works is to create a digital ecosystem where clients and freelancers can collaborate professionally without external tools. It aims to provide a secure, efficient, and transparent freelancing environment inspired by platforms like Upwork and Fiverr.

### 3. Architecture

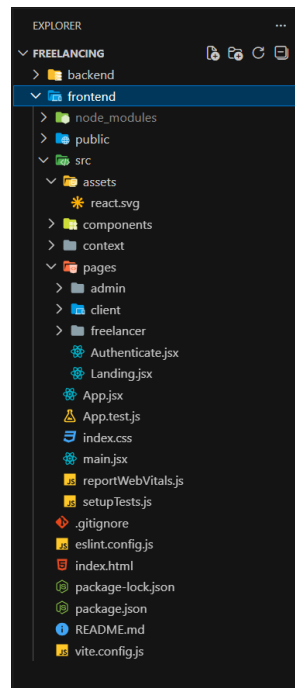
- **Frontend (React.js):** AJ Works uses React.js to build a modular, responsive, and interactive interface. Components include dashboards, project cards, proposal forms, chat UI, and notification panels. State is managed using Redux Toolkit or Context API.
- **Backend (Node.js + Express.js):** The backend follows a microservice-like modular architecture with separate controllers, middleware, and routing. Express.js handles REST API routing for authentication, projects, bids, chats, reviews, and admin operations.

### 4. Setup Instructions

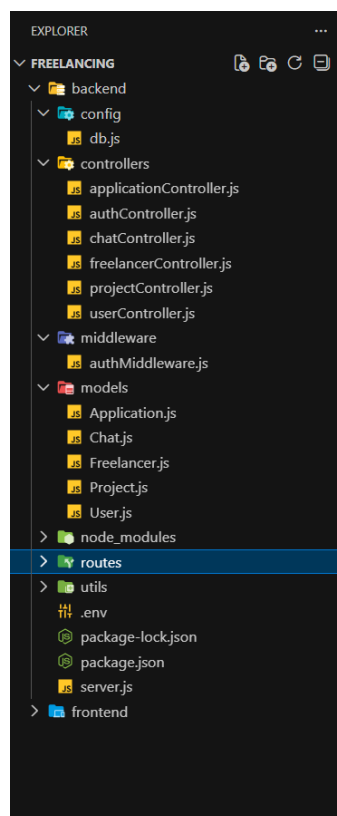
- **Prerequisites:**
  - Node.js v16+
  - npm / yarn
  - MongoDB Atlas or local MongoDB
  - Postman
  - VS Code
  - Git
- **Installation:**
  - cd frontend
  - npm install
  - cd ../backend
  - npm install

### 5. Folder Structure

- **Client:** React frontend.



- **Server:** Node.js backend.

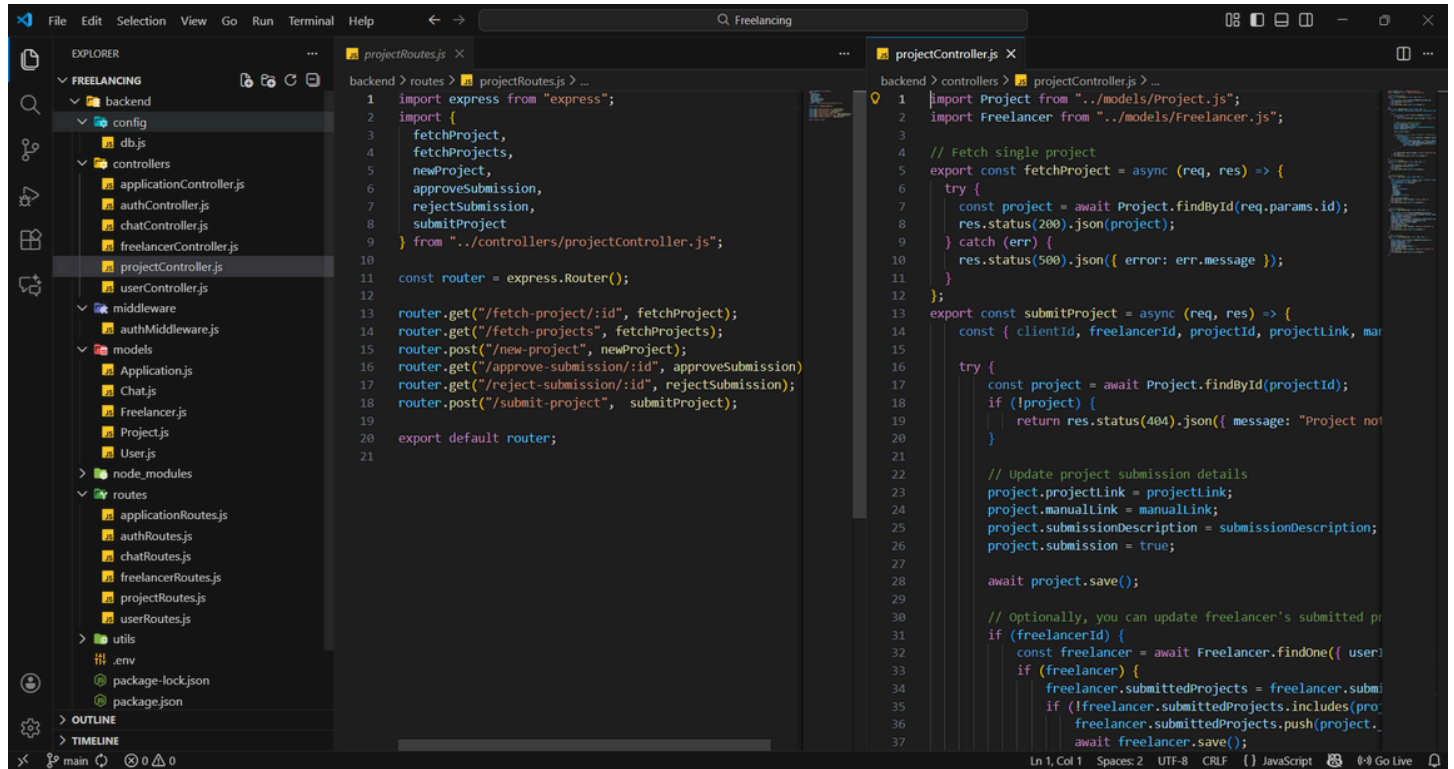


## 6. Running the Application

- **Frontend:** `npm start` in the client directory.
  - `cd frontend`
  - `npm start`
- **Backend:** `npm start` in the server directory.
  - `cd frontend`

- npm start

## 7. API Documentation

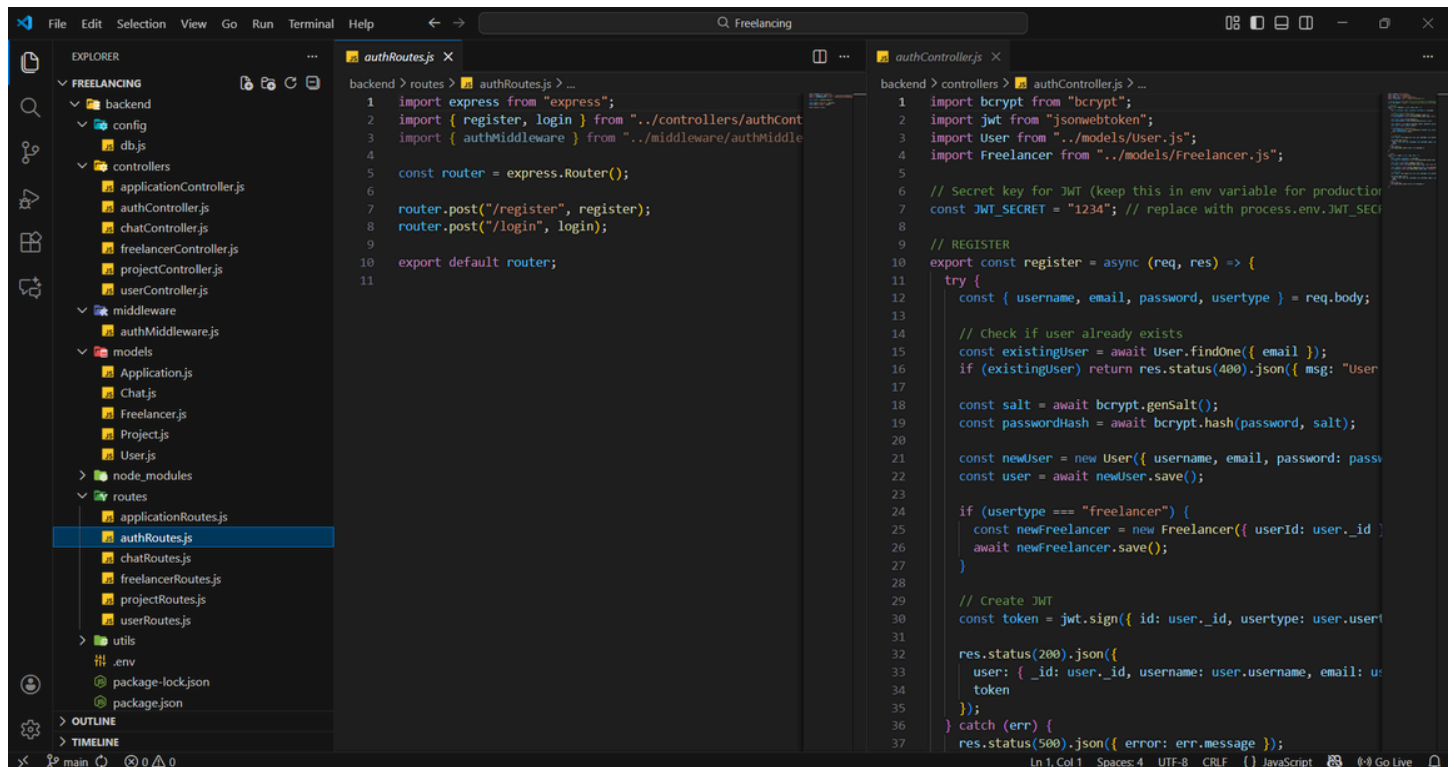


This screenshot shows the Visual Studio Code editor with the `projectController.js` file open. The Explorer sidebar on the left shows the project structure, with `projectController.js` selected under the `controllers` folder. The main editor displays the following code:

```
1 import express from "express";
2 import {
3   fetchProject,
4   fetchProjects,
5   newProject,
6   approveSubmission,
7   rejectSubmission,
8   submitProject
9 } from "../controllers/projectController.js";
10
11 const router = express.Router();
12
13 router.get("/fetch-project/:id", fetchProject);
14 router.get("/fetch-projects", fetchProjects);
15 router.post("/new-project", newProject);
16 router.get("/approve-submission/:id", approveSubmission);
17 router.get("/reject-submission/:id", rejectSubmission);
18 router.post("/submit-project", submitProject);
19
20 export default router;
```

The right sidebar shows the `projectController.js` file with the following code:

```
1 import Project from "../models/Project.js";
2 import Freelancer from "../models/Freelancer.js";
3
4 // Fetch single project
5 export const fetchProject = async (req, res) => {
6   try {
7     const project = await Project.findById(req.params.id);
8     res.status(200).json(project);
9   } catch (err) {
10    res.status(500).json({ error: err.message });
11  }
12 };
13
14 export const submitProject = async (req, res) => {
15   const { clientId, freelancerId, projectId, projectLink, manualLink, submissionDescription } = req.body;
16
17   try {
18     const project = await Project.findById(projectId);
19     if (!project) {
20       return res.status(404).json({ message: "Project not found" });
21     }
22
23     // Update project submission details
24     project.projectLink = projectLink;
25     project.manualLink = manualLink;
26     project.submissionDescription = submissionDescription;
27     project.submission = true;
28
29     await project.save();
30
31     // Optionally, you can update freelancer's submitted projects
32     if (freelancerId) {
33       const freelancer = await Freelancer.findOne({ user: clientId });
34       if (freelancer) {
35         freelancer.submittedProjects = freelancer.submittedProjects.concat(project._id);
36         if (!freelancer.submittedProjects.includes(project._id)) {
37           freelancer.submittedProjects.push(project._id);
38         }
39         await freelancer.save();
40       }
41     }
42   } catch (err) {
43     res.status(500).json({ error: err.message });
44   }
45 };
46
47 export default { fetchProject, submitProject };
```

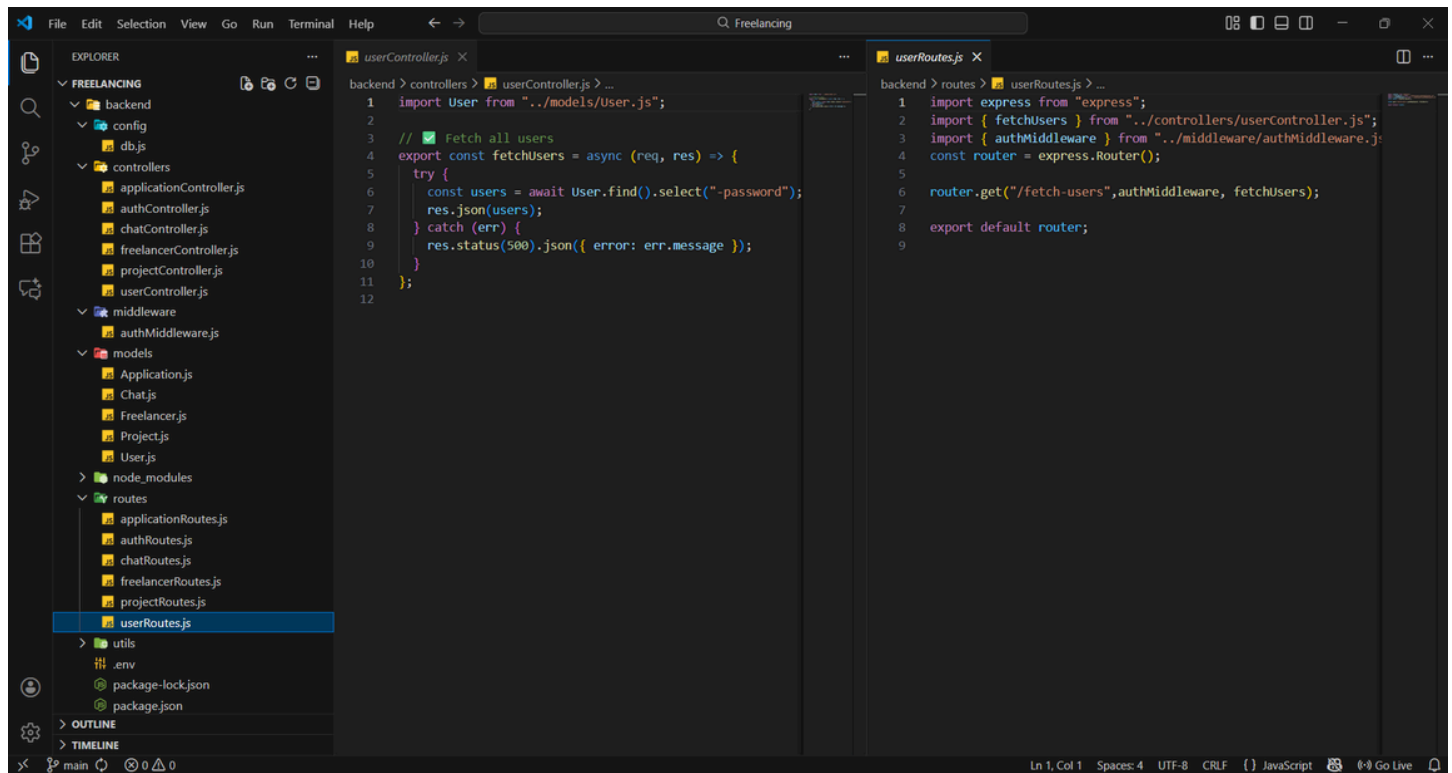


This screenshot shows the Visual Studio Code editor with the `authRoutes.js` file open. The Explorer sidebar on the left shows the project structure, with `authRoutes.js` selected under the `routes` folder. The main editor displays the following code:

```
1 import express from "express";
2 import { register, login } from "../controllers/authController.js";
3 import { authMiddleware } from "../middleware/authMiddleware.js";
4
5 const router = express.Router();
6
7 router.post("/register", register);
8 router.post("/login", login);
9
10 export default router;
```

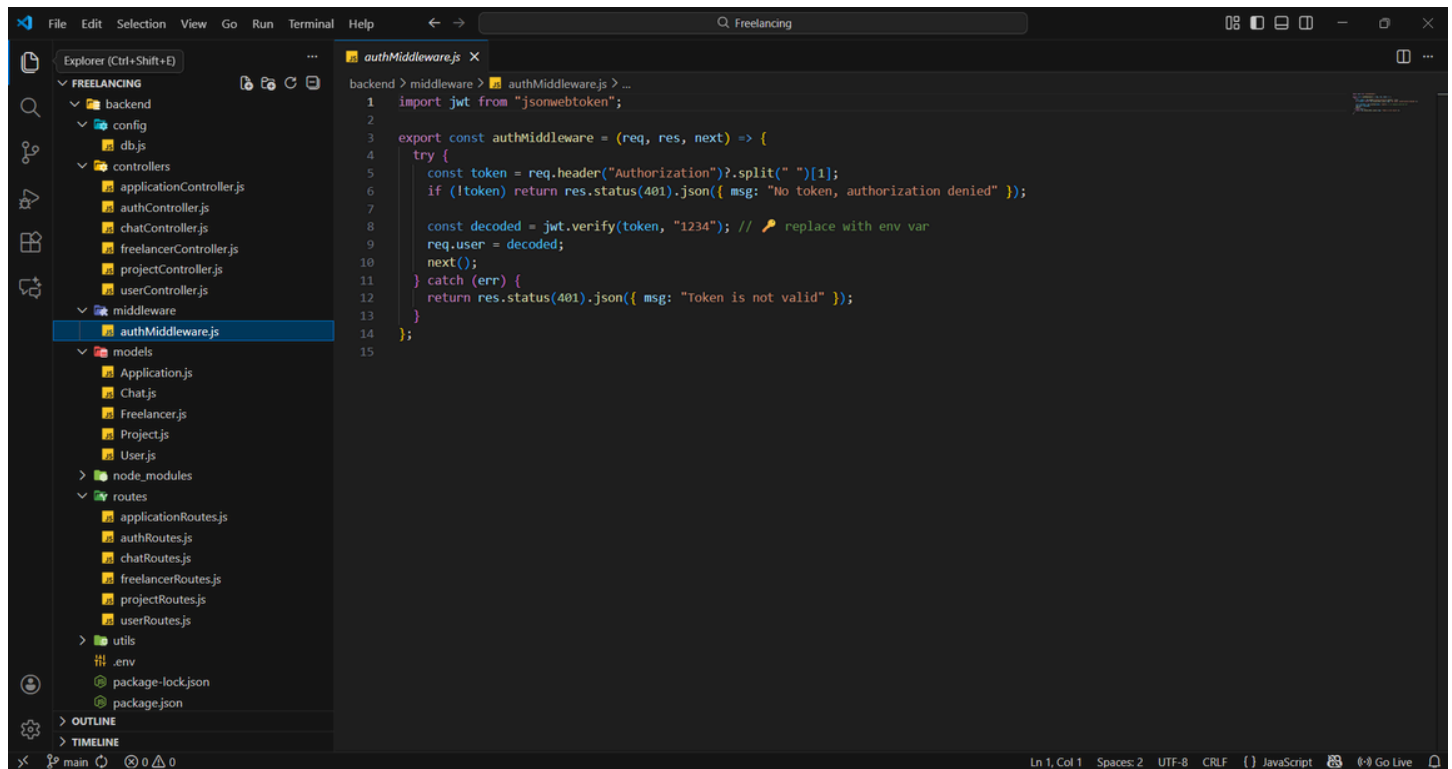
The right sidebar shows the `authController.js` file with the following code:

```
1 import bcrypt from "bcrypt";
2 import jwt from "jsonwebtoken";
3 import User from "../models/User.js";
4 import Freelancer from "../models/Freelancer.js";
5
6 // Secret key for JWT (keep this in env variable for production)
7 const JWT_SECRET = "1234"; // replace with process.env.JWT_SECRET
8
9 // REGISTER
10 export const register = async (req, res) => {
11   try {
12     const { username, email, password, usertype } = req.body;
13
14     // Check if user already exists
15     const existingUser = await User.findOne({ email });
16     if (existingUser) return res.status(400).json({ msg: "User already exists" });
17
18     const salt = await bcrypt.genSalt();
19     const passwordHash = await bcrypt.hash(password, salt);
20
21     const newUser = new User({ username, email, password: passwordHash, usertype });
22     const user = await newUser.save();
23
24     if (usertype === "freelancer") {
25       const newFreelancer = new Freelancer({ user_id: user._id });
26       await newFreelancer.save();
27     }
28
29     // Create JWT
30     const token = jwt.sign({ id: user._id, usertype: user.usertype }, JWT_SECRET, { expiresIn: "1h" });
31
32     res.status(200).json({
33       user: { _id: user._id, username: user.username, email: user.email, usertype: user.usertype },
34       token
35     });
36   } catch (err) {
37     res.status(500).json({ error: err.message });
38   }
39 };
40
41 // LOGIN
42 export const login = async (req, res) => {
43   try {
44     const { email, password } = req.body;
45
46     const user = await User.findOne({ email });
47     if (!user) return res.status(400).json({ msg: "Invalid email or password" });
48
49     const isMatch = await bcrypt.compare(password, user.password);
50     if (!isMatch) return res.status(400).json({ msg: "Invalid email or password" });
51
52     const token = jwt.sign({ id: user._id, usertype: user.usertype }, JWT_SECRET, { expiresIn: "1h" });
53
54     res.status(200).json({
55       user: { _id: user._id, username: user.username, email: user.email, usertype: user.usertype },
56       token
57     });
58   } catch (err) {
59     res.status(500).json({ error: err.message });
60   }
61 };
62
63 export default { register, login };
```



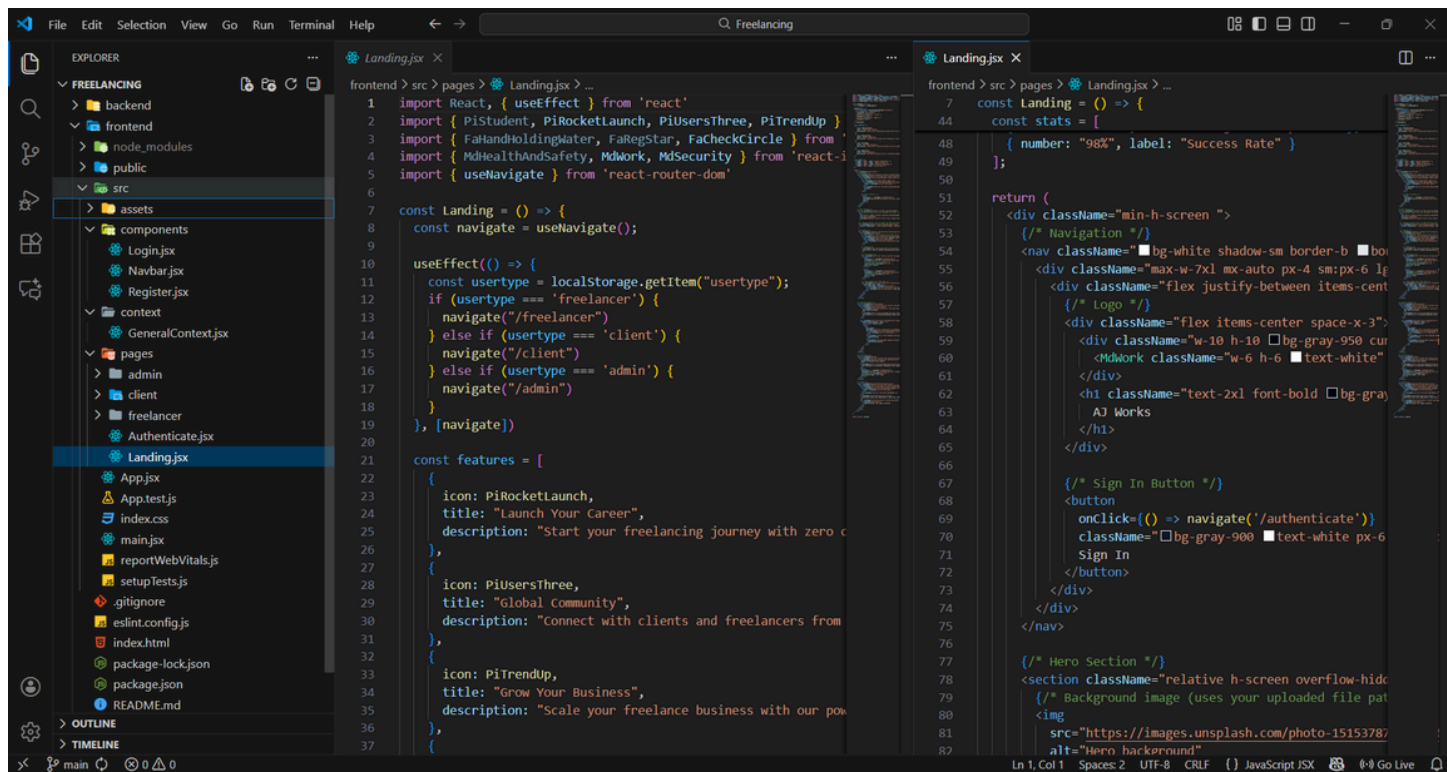
## 8. Authentication

Authentication uses JWT tokens stored in secure cookies. Passwords are hashed using bcrypt. Middleware ensures each route allows access only to the correct role (Client / Freelancer / Admin). Admin routes are strictly protected, and suspicious activities are logged. Email verification can be optionally added.

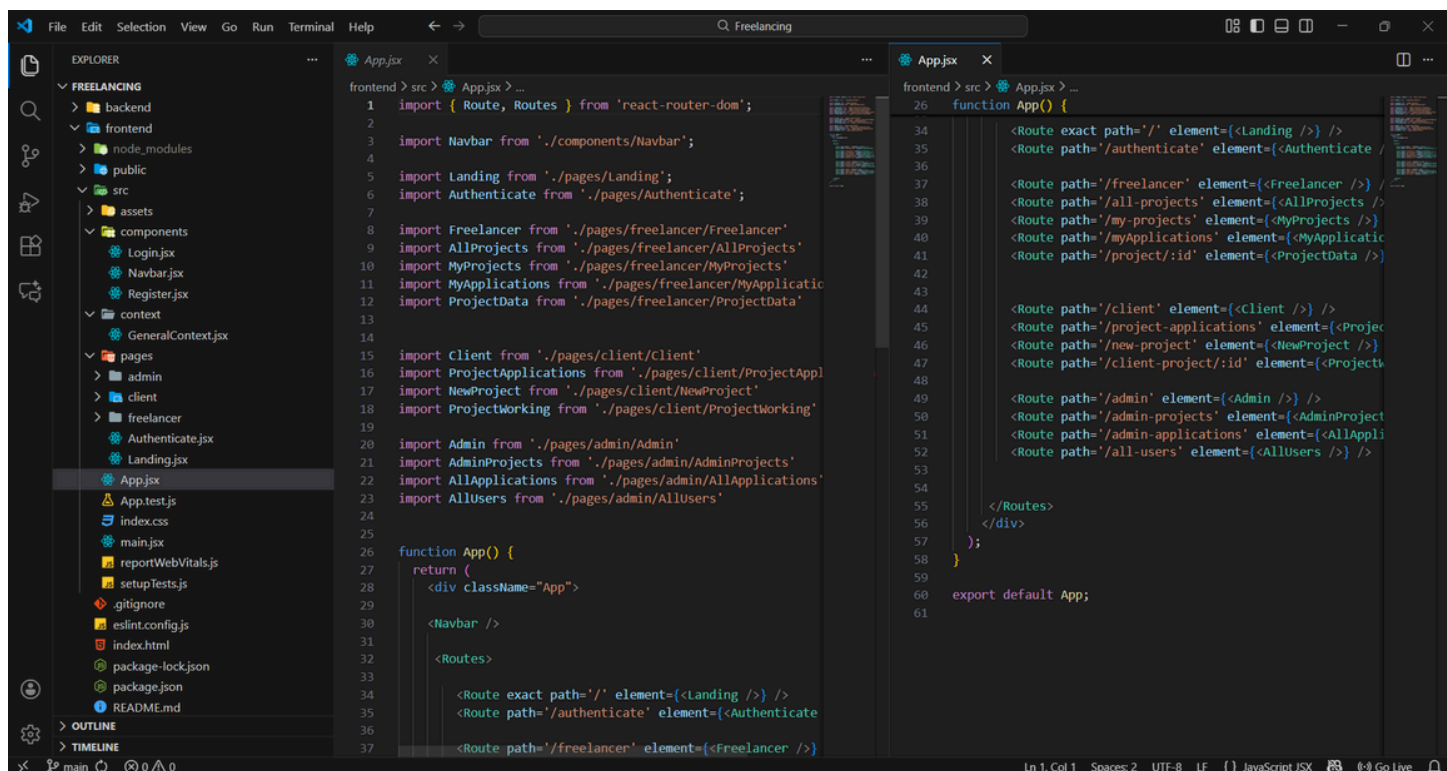


## 9. User Interface

The UI includes a clean dashboard for clients and freelancers, project detail pages, bidding UI, chat windows, and file upload sections. React components are styled using Bootstrap or Material UI. UI consistency is maintained using reusable components and global styles. Mobile responsiveness ensures access on any device.



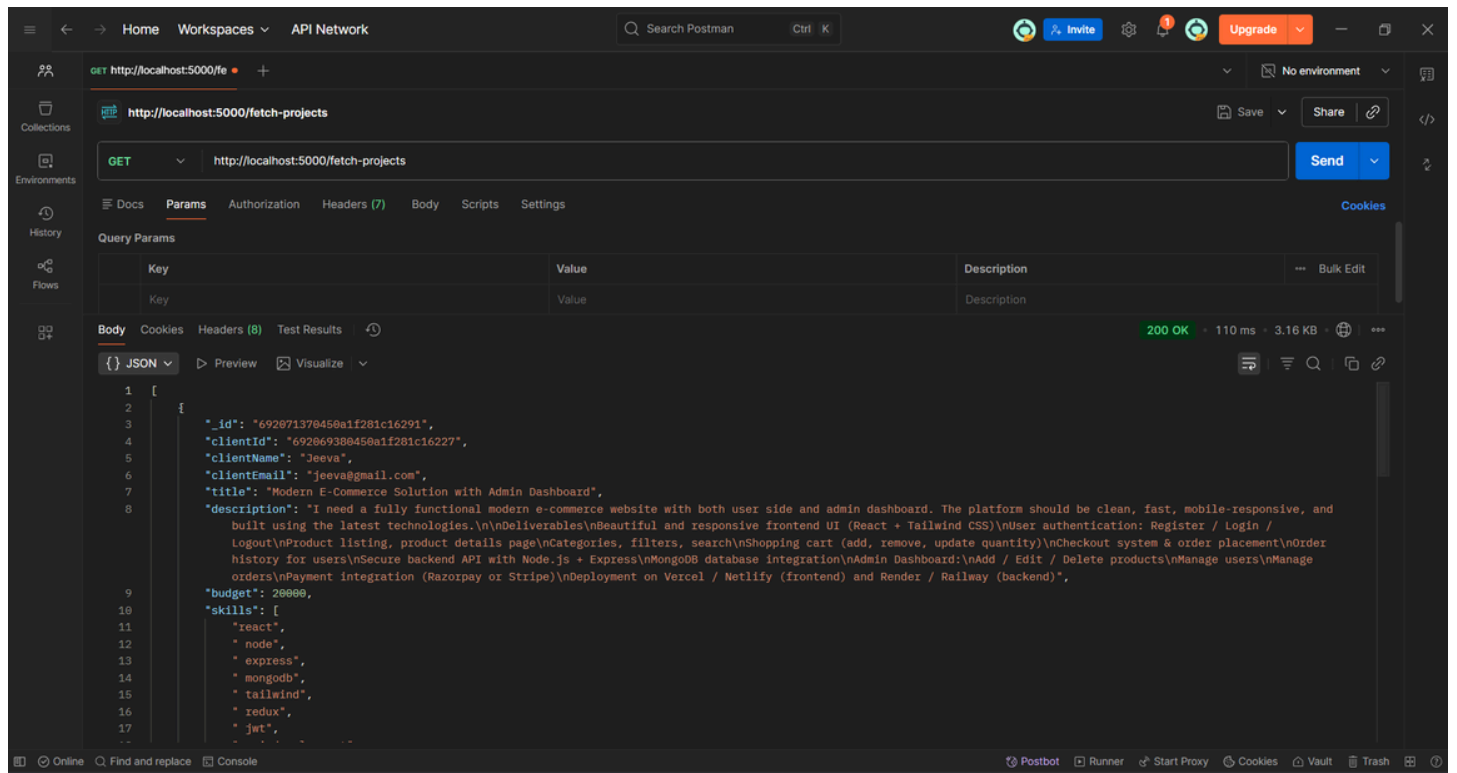
```
1 import React, { useEffect } from 'react'
2 import { PiStudent, PiRocketLaunch, PiUsersThree, PiTrendUp } from 'react-icons-pi'
3 import { FaHandHoldingWater, FaRegStar, FaCheckCircle } from 'react-icons-fa'
4 import { MdHealthAndSafety, MdWork, MdSecurity } from 'react-icons-md'
5 import { useNavigate } from 'react-router-dom'
6
7 const Landing = () => {
8   const navigate = useNavigate();
9
10  useEffect(() => {
11    const usertype = localStorage.getItem("usertype");
12    if (usertype === 'freelancer') {
13      navigate("/freelancer")
14    } else if (usertype === 'client') {
15      navigate("/client")
16    } else if (usertype === 'admin') {
17      navigate("/admin")
18    }
19  }, [navigate])
20
21  const features = [
22    {
23      icon: PiRocketLaunch,
24      title: "Launch Your Career",
25      description: "Start your freelancing journey with zero cost"
26    },
27    {
28      icon: PiUsersThree,
29      title: "Global Community",
30      description: "Connect with clients and freelancers from around the world"
31    },
32    {
33      icon: PiTrendUp,
34      title: "Grow Your Business",
35      description: "Scale your freelance business with our powerful tools"
36    }
37  ]
```



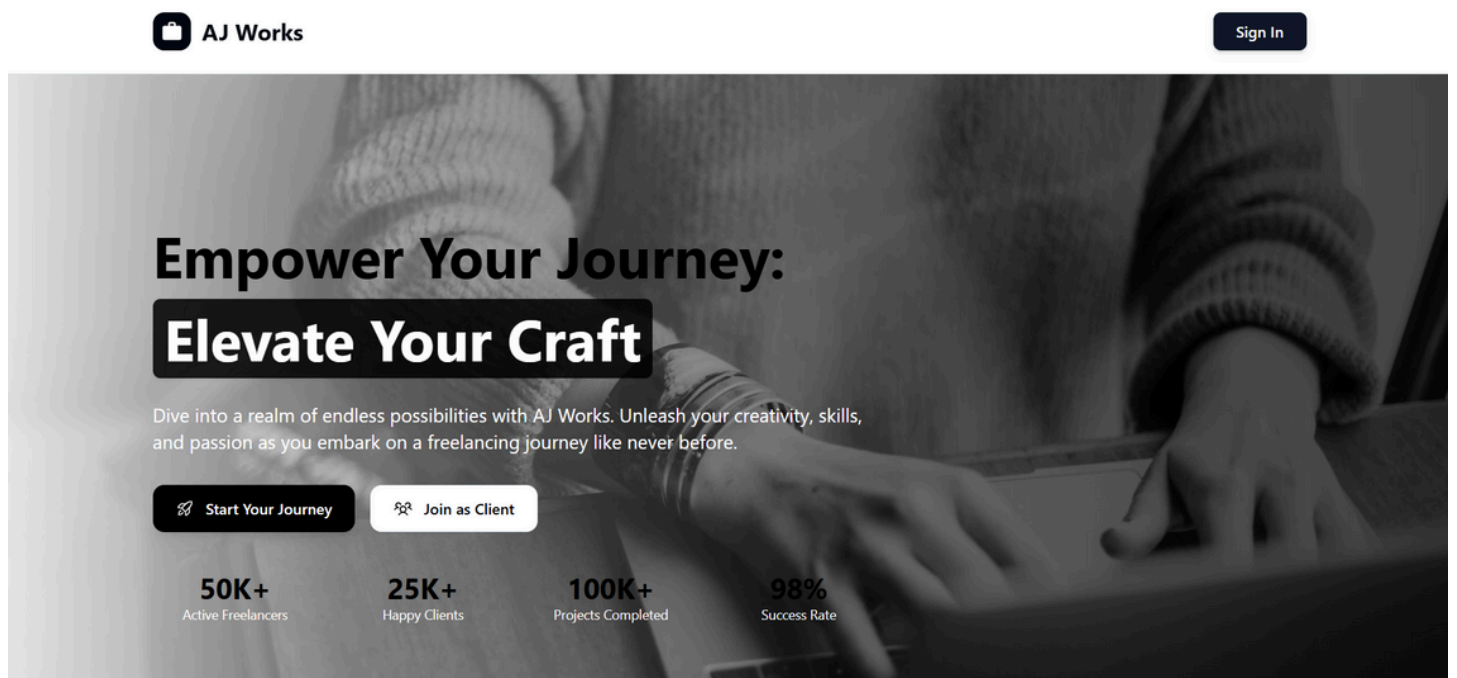
```
1 import { Route, Routes } from 'react-router-dom';
2
3 import Navbar from './components/Navbar';
4
5 import Landing from './pages/Landing';
6 import Authenticate from './pages/Authenticate';
7
8 import Freelancer from './pages/freelancer/Freelancer';
9 import AllProjects from './pages/freelancer/AllProjects';
10 import MyProjects from './pages/freelancer/MyProjects';
11 import MyApplications from './pages/freelancer/MyApplications';
12 import ProjectData from './pages/freelancer/ProjectData';
13
14
15 import Client from './pages/client/Client';
16 import ProjectApplications from './pages/client/ProjectApplications';
17 import NewProject from './pages/client/NewProject';
18 import ProjectWorking from './pages/client/ProjectWorking';
19
20 import Admin from './pages/admin/Admin';
21 import AdminProjects from './pages/admin/AdminProjects';
22 import AllApplications from './pages/admin/AllApplications';
23 import AllUsers from './pages/admin/AllUsers';
24
25
26 function App() {
27   return (
28     <div className="App">
29       <Navbar />
30
31       <Routes>
32
33         <Route exact path="/" element={<Landing />} />
34         <Route path="/authenticate" element={<Authenticate />} />
35
36         <Route path="/freelancer" element={<Freelancer />} />
37         <Route path="/all-projects" element={<AllProjects />} />
38         <Route path="/my-projects" element={<MyProjects />} />
39         <Route path="/my-applications" element={<MyApplications />} />
40         <Route path="/project/:id" element={<ProjectData />} />
41
42         <Route path="/client" element={<Client />} />
43         <Route path="/project-applications" element={<ProjectApplications />} />
44         <Route path="/new-project" element={<NewProject />} />
45         <Route path="/client-project/:id" element={<ProjectWorking />} />
46
47         <Route path="/admin" element={<Admin />} />
48         <Route path="/admin-projects" element={<AdminProjects />} />
49         <Route path="/admin-applications" element={<AllApplications />} />
50         <Route path="/all-users" element={<AllUsers />} />
51
52       </Routes>
53     </div>
54   );
55 }
56
57 export default App;
```

## 10. Testing

Testing includes manual testing with Postman for backend API endpoints like login, project creation, and bid submission. Frontend testing includes forms validation, user flows, and dashboard navigation. Chat system testing ensures message syncing and real-time updates.



## 11. Screenshots or Demo





## My Projects

Choose project status ▾

## Movie Ticket Booking

Fri Nov 21 2025 22:53:45

Budget: ₹ 20000

Build a responsive movie ticket booking web application where users can browse movies, view showtimes, select seats, pay online, and get e-tickets. Includes an admin dashboard to add movies, manage showtimes/theatres, view bookings and sales reports. Clean UI, mobile-first, and deployable to a cloud provider. Key features / scope (short) Movie listing, details & trailers Search, filters (genre, language, date) Showtimes by theatre & date Interactive seat map with real-time availability Booking flow with user accounts, booking history & cancellations/refunds Payment gateway integration (Razorpay / Stripe) Email/SMS ticket confirmation and QR/e-ticket generation Admin panel: CRUD for movies/theatres/screens/showtimes, booking reports Optional: promo codes, ratings/reviews, push/notification support Source code on GitHub + basic deployment (Vercel / Heroku / AWS)

Status: Assigned

## Applications

Filter by project: All Projects ▾

## Movie Ticket Booking

Posted

Build a responsive movie ticket booking web application where users can browse movies, view showtimes, select seats, pay online, and get e-tickets. Includes an admin dashboard to add movies, manage showtimes/theatres, view bookings and sales reports. Clean UI, mobile-first, and deployable to a cloud provider. Key features / scope (short) Movie listing, details & trailers Search, filters (genre, language, date) Showtimes by theatre & date Interactive seat map with real-time availability Booking flow with user accounts, booking history & cancellations/refunds Payment gateway integration (Razorpay / Stripe) Email/SMS ticket confirmation and QR/e-ticket generation Admin panel: CRUD for movies/theatres/screens/showtimes, booking reports Optional: promo codes, ratings/reviews, push/notification support Source code on GitHub + basic deployment (Vercel / Heroku / AWS)

## Skills required

react node express mongo payment-integration (Razorpay/Stripe) tailwind/css jwt-auth

## Budget

₹ 20000

## Proposal

I can build a complete Movie Ticket Booking web application with a modern UI and smooth booking flow. I handle both frontend and backend development, including movie listing, seat selection, showtime management, payment gateway integration, authentication, user dashboard, and admin panel. I can also deploy the project and maintain clean, optimized code with proper GitHub version control.

## Freelancer skills

react node express mongodb javascript html css tailwind git api integration jwt authentication responsive design

## Proposed Budget

₹ 20000

Status: Accepted

Current projects

1

View projects

Completed projects

0

View projects

Applications

1

View Applications

Funds

Available: ₹ 0

## My Skills

react node.js express.js mongodb javascript redux toolkit html css tailwind css  
rest api development authentication full-stack development git responsive design

## Description

I am a Full Stack MERN Developer specializing in modern and scalable web applications. I build responsive frontend interfaces using React + Tailwind, and secure backend APIs using Node.js, Express, and MongoDB. I have strong experience in: Creating full e-commerce systems User authentication (JWT + cookies) Cart, orders, products, admin dashboard REST API development Clean and reusable code structure Debugging and performance optimization I deliver high-quality projects with professional UI, fast performance, and clean code.

Update

## Profile Summary

Name

CodeJeeva

Email

jeeva27@gmail.com

Joined

## Modern E-Commerce Solution with Admin Dashboard

Budget

₹  
20000

I need a fully functional modern e-commerce website with both user side and admin dashboard. The platform should be clean, fast, mobile-responsive, and built using the latest technologies. Deliverables: Beautiful and responsive frontend UI (React + Tailwind CSS) User authentication: Register / Login / Logout Product listing, product details page Categories, filters, search Shopping cart (add, remove, update quantity) Checkout system & order placement Order history for users Secure backend API with Node.js + Express MongoDB database integration Admin Dashboard: Add / Edit / Delete products Manage users Manage orders Payment integration (Razorpay or Stripe) Deployment on Vercel / Netlify (frontend) and Render / Railway (backend)

## Required skills

react node express mongodb tailwind redux jwt api development  
payment integration

## Submit the project

Project link

Manual link

Describe your work

Submit project

## Chat with the client

No messages yet.

Enter something...

Send



## Admin Dashboard

Overview of platform activity

All Projects

2

View projects

Completed projects

0

View projects

Applications

2

View Applications

Users

6

View Users

## Filters

## Skills

- ☐ react
- ☐ node
- ☐ express
- ☐ mongodb
- ☐ tailwind
- ☐ redux
- ☐ jwt
- ☐ api development
- ☐ payment integration

Clear filters

## All projects

2 results

## Movie Ticket Booking

Fri Nov 21 2025 22:53:45 GMT+0530 (India Standard Time)

Budget

₹ 20000

Client

user — user@gmail.com

Status

Assigned

Build a responsive movie ticket booking web application where users can browse movies, view showtimes, select seats, pay online, and get e-tickets. Includes an admin dashboard to add movies, manage showtimes/theatres, view bookings and sales reports. Clean UI, mobile-first, and deployable to a cloud provider. Key features / scope (short) Movie listing, details & trailers Search, filters (genre, language, date) Showtimes by theatre & date Interactive seat map with real-time availability Booking flow with user accounts, booking history & cancellations/refunds Payment gateway integration (Razorpay / Stripe) Email/SMS ticket confirmation and QR/e-ticket generation Admin panel: CRUD for movies/theatres/screens/showtimes, booking reports Optional: promo codes, ratings/reviews, push/notification support Source code on GitHub + basic deployment (Vercel / Heroku / AWS)

react node express mongo payment-integration (Razorpay/Stripe) tailwind/css jwt-auth

1 bids

₹ 20000 (avg bid)

View details

## Modern E-Commerce Solution with Admin Dashboard

Fri Nov 21 2025 19:33:35 GMT+0530 (India Standard Time)

Budget

₹ 20000

Client

Jeeva — jeeva@gmail.com

Status

Assigned

I need a fully functional modern e-commerce website with both user side and admin dashboard. The platform should be clean, fast, mobile-responsive, and built using the latest technologies. Deliverables Beautiful and responsive frontend UI (React + Tailwind CSS) User authentication: Register / Login / Logout Product listing, product details page Categories, filters, search Shopping cart (add, remove, update quantity) Checkout system & order placement Order history for users Secure backend API with Node.js + Express MongoDB database integration Admin Dashboard: Add / Edit / Delete products Manage users Manage orders Payment integration (Razorpay or Stripe) Deployment on Vercel / Netlify (frontend) and Render / Railway (backend)

react node express mongodb tailwind redux jwt api development payment integration

1 bids

₹ 20000 (avg bid)

View details

## All Applications

2 total

## Movie Ticket Booking

Build a responsive movie ticket booking web application where users can browse movies, view showtimes, select seats, pay online, and get e-tickets. Includes an admin dashboard to add movies, manage showtimes/theatres, view bookings and sales reports. Clean UI, mobile-first, and deployable to a cloud provider. Key features / scope (short) Movie listing, details & trailers Search, filters (genre, language, date) Showtimes by theatre & date Interactive seat map with real-time availability Booking flow with user accounts, booking history & cancellations/refunds Payment gateway integration (Razorpay / Stripe) Email/SMS ticket confirmation and QR/e-ticket generation Admin panel: CRUD for movies/theatres/screens/showtimes, booking reports Optional: promo codes, ratings/reviews, push/notification support Source code on GitHub + basic deployment (Vercel / Heroku / AWS)

## Skills required

react node express mongo payment-integration (Razorpay/Stripe) tailwind/css jwt-auth

## Client: user

Client Id: 69209fbc8849a4a62cb49817  
Client email: user@gmail.com

Submitted:

## Budget

₹ 20000

## Proposal

I can build a complete Movie Ticket Booking web application with a modern UI and smooth booking flow. I handle both frontend and backend development, including movie listing, seat selection, showtime management, payment gateway integration, authentication, user dashboard, and admin panel. I can also deploy the project and maintain clean, optimized code with proper GitHub version control.

## Freelancer skills

react node express mongodb javascript html css tailwind git api integration jwt authentication responsive design

## Freelancer: Freelancer

Freelancer Id: 6920a05c8849a4a62cb49820  
Freelancer email: freelancer@gmail.com

Proposed Budget

Proposed: ₹ 20000

Accepted

## 12. Known Issues

- Payment gateway not yet integrated
- Real-time chat could be further optimized
- Email notifications not implemented
- Dark mode not added yet
- Admin analytics dashboard in progress

## 13. Future Enhancements

- Integrate Stripe/Razorpay for payments
- Add video call option for client-freelancer meetings
- Improve search with AI suggestions
- Add skill tests and certifications
- Build mobile app version
- Add project milestone and invoice system