MERN Stack Employee Evaluation Project (Admin / Employee / Client Portal)

Employer Instructions

You are required to build a fully functional MERN stack project that includes:

- Admin Portal

- Minimum 3 Employee Portals

- Minimum 4 Client Portals

After completing the project:

- Host it on any **free hosting platform** (Render / Vercel / Netlify / Railway)

- Use a **free domain** (Freenom / Vercel domain)

- Send the **LIVE LINK** + **GitHub Repository Link**

Project Name: TaskFlow Portal

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1. Overview

Develop a complete MERN (MongoDB, Express, React, Node.js) project with Tailwind CSS.

It must include role-based authentication and responsive UI.

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2. User Roles

1. Admin

- Create Employee accounts

- Create Client accounts

- Create and assign Tasks

- View all tasks with filters

- Mark tasks visible/not visible to clients

2. Employee

- View tasks assigned to him

- Update task status (pending → ongoing → completed)

- Add comments on tasks

- View personal dashboard

3. Client

- View only tasks assigned to their project

- View task progress

- Download simple PDF report (optional)

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3. Technical Requirements

Frontend (React + Tailwind)
- React Router

- Axios

- TailwindCSS

- Mobile responsive design

- Sidebar navigation

- Cards and tables for tasks

- Role-based routes

Backend (Node.js + Express)
- JWT Authentication

- Password hashing

- Role-based access middleware

- Mongoose models

- Clean folder architecture

Database (MongoDB)
Collections:

- Users (admin, employee, client)

- Tasks

- Comments (optional)

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4. API Structure (Example)
POST /auth/login

POST /employees

POST /clients

POST /tasks

GET /tasks

PUT /tasks/:id

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5. Deliverables

The employee must submit:

✔ LIVE Hosted Project Link

Free hosting + free domain.

✔ GitHub Repository

Frontend and Backend code must be separate folders.

✔ Admin Login +

- 3 Employee Logins

- 4 Client Logins

✔ Postman Collection

With working API routes.

✔ 10-minute Demo Video (Optional but recommended)

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6. Evaluation Criteria

- Code quality

- Mobile responsiveness

- UI/UX neatness

- Database modeling

- Role-based authentication

- Professionalism in hosting and delivery

Note to Employee

This test is designed to evaluate your real-world MERN development skills.

Make sure the project is:

- Fully responsive

- Neatly designed

- Correctly deployed

- Easy to use

Submit all required items before the deadline.

Good luck!