



Full Stack Developer Assignment (Shift Board)

Assignment Name: Employee Shift Board << *Please mention this name in Submission Form >>*

Role: Fullstack Developer

Goal: Employee Shift Board — Mini HR Utility

A simple, real-world assignment designed to validate full-stack developer skills. It includes custom business rules that require real logic and cannot be completed by blindly using AI code.



Objective

Build a minimal full-stack application that manages employee shifts with authentication, role-based access, and custom shift validation rules.



Features

1. Authentication (JWT)

- Two seeded users:
 - **Admin**
 - **Normal User**
 - Login using username + password.
 - Must validate roles on protected routes.
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2. Employee Shift Board

Employee Fields:

- Name
- Employee Code
- Department

Shift Fields:

- Date
 - Start Time
 - End Time
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Custom Business Rules (Critical)

These rules ensure the assignment requires real logic:

1. No Overlapping Shifts

An employee cannot have two shifts that overlap on the same date.

2. Shift Must Be Minimum 4 Hours

End time – start time must be ≥ 4 hours.

3. Normal Users See Only Their Own Shifts

Admins can view all shifts.



Backend Requirements

REST APIs

- POST /login
- GET /employees
- POST /shifts
- GET /shifts?employee=xx&date=xx
- DELETE /shift/:id

Must Include

- Proper request validation
 - Error handling
 - Role-based middleware
 - Clean folder structure (controllers/services/routes/models)
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Frontend Requirements

- React or Next.js
- Login page

- Dashboard
 - Shift assignment form (Admin only)
 - Table to view shifts
 - Display errors from API
 - Responsive basic UI (does not have to be fancy)
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Submission

- GitHub repository
 - README with:
 - Setup instructions
 - API documentation
 - Any known issues
 - Postman collection
 - Live demo links (optional but preferred)
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Evaluation Criteria

- Correct implementation of business rules
 - Code quality & cleanliness
 - Handling of edge cases
 - Basic UI/UX quality
 - API correctness
 - DB modeling & validation
 - Role-based access control
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Demo Login (Must Be Hard-Coded in Seed Data)

Email hire-me@anshumat.org

Password HireMe@2025!

This user **must exist** in your hosted deployment, so reviewers can log in **without registration**.

Submission Format

Submit this as a comment in the assignment form:

Form Link: forms.gle/Bjmec4ajeJtc7697A

XML

Name:

GitHub Repo:

Live Demo Link:

Tech Stack Used:

Notes for Reviewer (optional):
