# Backend Developer Requirement – FinTrack Pro

## 📌 Problem Statement

Build a basic backend system for FinTrack Pro, a financial management and billing software. The backend should allow businesses to manage users, generate invoices, track expenses, and view simple financial reports.

## 🛠️ Tech Stack (Beginner-Friendly)

* Node.js + Express → For building REST APIs
* PostgreSQL (or MySQL) → For storing users, invoices, and expenses
* Sequelize / Prisma (ORM) → To interact with the database easily
* JWT Authentication → For secure user login
* Postman → For testing APIs
* (Optional) Docker for containerization, Redis for caching, Swagger for API docs

## 🎯 Expected Outcome

1. User Authentication – Signup, Login, Role-based access (Admin/User).
2. Billing System – Create, update, and fetch invoices.
3. Expense Tracking – Add and categorize expenses.
4. Reports API – Get revenue and expense summary.
5. Secure APIs – Protected with JWT authentication.

## 👉 Learning Outcomes

This project will give you hands-on experience in:  
- Setting up a database  
- Writing REST APIs  
- Handling authentication & authorization  
- Building CRUD operations for real-world use

## 📅 Project Roadmap (Step-by-Step Milestones)

1. Setup project with Node.js and Express

2. Configure PostgreSQL/MySQL database and ORM (Sequelize/Prisma)

3. Implement user authentication with JWT

4. Build CRUD APIs for invoices and expenses

5. Create reports API for revenue/expenses summary

6. Secure endpoints and test with Postman

7. (Optional) Add Docker, caching, and API documentation