EMPLOYEE ATTENDANCE SYSTEM – PROJECT DESCRIPTION (PDF EXPORT)

Project-Building Prompt:

You are a full-stack expert. I want you to help me build a complete Employee Attendance System using the following stack:

Frontend: React + Redux Toolkit (or Zustand)

Backend: Node.js + Express

Database: MongoDB or PostgreSQL

Use the exact project requirements below and generate full code, folder structure, APIs, UI pages, components, and database models.

Project Requirements:

Two roles: Employee and Manager

Employee Features:

1. Register/Login

2. Check-in & Check-out

3. Attendance history (calendar & table)

4. Monthly summary

5. Dashboard with stats

Manager Features:

1. Login

2. View all employee attendance

3. Filter by employee/date/status

4. Team attendance summary

5. Export CSV

6. Dashboard

Required Pages:

Employee: Login/Register, Dashboard, Mark Attendance, History, Profile

Manager: Login, Dashboard, All Attendance, Team Calendar, Reports

Database Schema:

Users: id, name, email, password, role, employeeId, department, createdAt

Attendance: id, userId, date, checkInTime, checkOutTime, status, totalHours, createdAt

APIs Needed:

Auth: register, login, me

Employee Attendance: checkin, checkout, my-history, my-summary, today

Manager Attendance: all, employee/:id, summary, export, today-status

Dashboard: employee, manager

Tasks:

1. Generate complete backend code (controllers, routes, models, middleware, services)

2. Generate complete frontend code (React pages, components, Redux slices, API hooks)

3. Provide folder structure for both backend & frontend

4. Provide UI design using Tailwind CSS

5. Provide sample seed data for users & attendance

6. Create README.md with setup steps

Start building the project with:

• clean architecture

• reusable components

• modern UI

• optimized APIs

This document contains the full project description requested in PDF format.