Project Scope Breakdown

- **Days Remaining:** 15 working days (Mon-Fri)
- **Team:** 6 core devs
 - o 4 Backend (Spring)
 - o 2 Frontend (React)
 - o Cross-work encouraged

Daily Plan (Starting May 6)

Date	Spring Dev Tasks	React Dev Tasks
Day-1 (May 6)	Setup Monorepo (EMS-backend), Initialize Auth & User Service, DB config	Setup Vite, Tailwind, Create React Layouts, Protected Routing (JWT Ready)
Day-2 (May 7)		Build Login Page + Private Route Setup, Auth Context, Axios Config
Day-3 (May 8)	Complete Auth APIs (Login/Register), Secure endpoints	Dashboard skeleton (Sidebar, Navbar, Layout), Placeholder components
Day-4 (May 9)	Employee CRUD APIs, Pagination	Employee List Page, Table Component
Day-5 (May 10)	Attendance Service APIs, Log daily attendance	Attendance Page UI, Forms
Day-6 (May 13)	Leave Service APIs, Apply/Approve	Leave Request UI, Manager Approve Table
Day-7 (May 14)	Task Management API, Assign Tasks	Task Management UI, Status Filters
Day-8 (May 15)	Ticket Service API, Assign/View Tickets	Ticket UI, Status & Filters
Day-9 (May 16)	Feedback/Chat API	Chat UI (maybe simple poll), Feedback Form
Day-10 (May 17)	Integrate Services (Feign/Gateway) + Swagger/Doc	Hook up all pages to APIs, Loading & Error States
Day-11 (May 20)	Final Testing + Merge to Main	Final Testing + Merge to Main

****** Two Daily Meetings

- 9 AM Stand-up → Task breakdown & blockers.
- 5 PM Evening Sync → Push to test branch, demo progress.

\) Important Tips:

- First **3 days** are crucial (setup + Auth flow)
- React Devs can help backend once layouts are set.
- Backend Devs support API pairing with frontend.
- Prioritize basic working features before polish.
- Let's reserve **Friday**, **May 17** as buffer for RAEs (Random Ass Engineering).

15-Day Development Plan for Employee Management System (EMS)

- Goal: Complete React + Spring Boot Microservices-based EMS by May 20, 2025
- Team: 6 Members (4 Spring + 2 React) (Shared responsibilities)
- Work Schedule: Monday-Friday (Weekends Off)
- Daily Meetings:
 - **Standup (Morning)** → Assign tasks for the day
 - **★ Evening Review** → Discuss progress & push to test branch

General Development Flow

- 1. Week 1 (May 6–10) → Project Setup, Authentication, Database, API development
- 2. Week 2 (May 13–17) → Full Frontend, Integrations, Testing
- 3. Final Days (May 20) → Debugging, Deployment

Day-by-Day Plan

May 6 (Monday) – Project Setup & Authentication

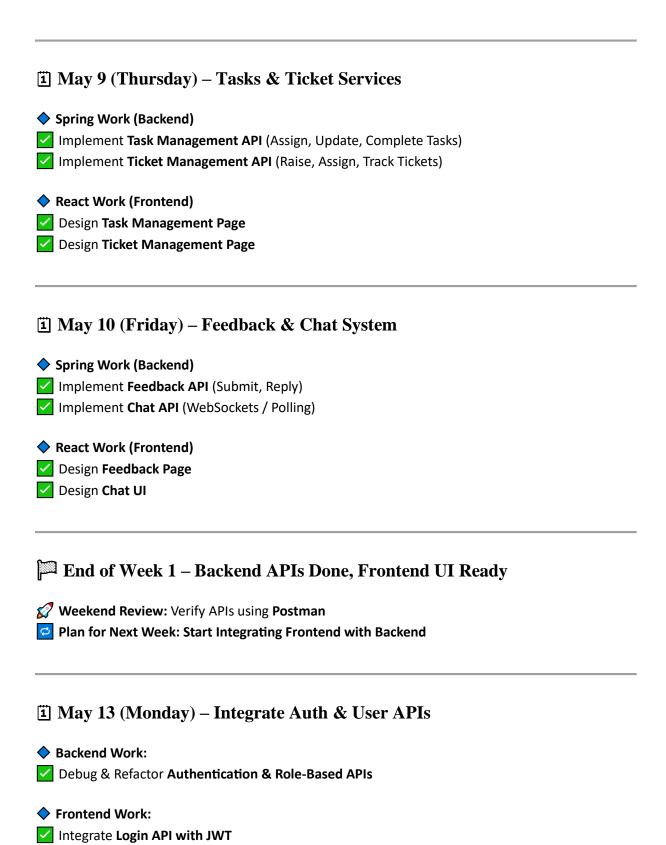
- Spring Work (Backend)
- ✓ Setup ems-backend repo on GitHub
- ✓ Initialize Spring Boot Project
- Setup Microservices Structure (User, Leave, Attendance, Tasks, Tickets)
- ✓ Configure MySQL Database & Entities
- Implement JWT Authentication API (Login, Register)
- React Work (Frontend)
- ✓ Setup ems-frontend repo on GitHub
- ✓ Install React with Vite, Tailwind CSS, React Router
- ✓ Design Folder Structure & Role-based Routing
- Build Login Page UI

☐ May 7 (Tuesday) – User & Role-Based Access

- Spring Work (Backend)
- Implement User Service API (CRUD for Employees & Managers)
- Implement Role-Based Access (MANAGER, EMPLOYEE)
- Setup Spring Security with JWT
- **♦** React Work (Frontend)
- Implement **Protected Routes** (Manager Dashboard / Employee Dashboard)
- Setup Context API for Authentication
- Design Navigation & Sidebar

🗓 May 8 (Wednesday) – Leave & Attendance Services

- ♦ Spring Work (Backend)
- Implement Leave Management API (Apply, Approve, Reject)
- Implement Attendance API (Check-in, Check-out, View Logs)
- **♦** React Work (Frontend)
- Design Leave Request Page
- **✓** Design **Attendance Page**
- ✓ API Integration for Login & User Details



Fetch User Details API

ï	May 14 (Tuesday) – Integrate Leave & Attendance APIs
♦	Backend Work: Final Testing of Leave & Attendance APIs
♦ ✓	Frontend Work: Connect Leave Management UI with APIs Connect Attendance Page with APIs
ï	May 15 (Wednesday) – Integrate Task & Ticket APIs
♦	Backend Work: Final Testing of Task & Ticket APIs
♦ ✓	Frontend Work: Connect Task Management UI with APIs Connect Ticket Management UI with APIs
ï	May 16 (Thursday) – Integrate Feedback & Chat APIs
\	Backend Work:
✓	Final Testing of Feedback & Chat APIs
\	Frontend Work:
=	Connect Feedback Page with APIs
✓	Connect Chat UI with APIs
ï	May 17 (Friday) – Final Frontend Improvements & UI Fixes
♦ ✓	Backend Work: Fix API Issues & Optimize Code Add Error Handling
♦	Frontend Work:

May 20 (Final Day) – Testing & Deployment

- **✓** Test Entire System
- **✓** Fix Bugs
- ✓ Deploy Backend & Frontend
- ✓ Final Demo & Submission

Daily Workflow (Every Workday)

Time Task

9:30 AM - 10:00 AM Standup Meeting (Assign Work)

10:00 AM - 1:30 PM Morning Work Session

1:30 PM - 2:30 PM Lunch Break

2:30 PM - 5:30 PM Afternoon Work Session

5:30 PM - 6:00 PM Evening Review (Push Code to test Branch)

6 Final Checklist

- ✓ API Testing in Postman
- Frontend-Backend Integration
- **✓** Bug Fixes & Debugging
- **✓** Deployment