

# Frontend Developer Requirement Document

**Project:** Employee Performance Tracking System

**Role:** Frontend Developer (HTML, CSS, JavaScript, Bootstrap, Angular)

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## 1. Objective

The frontend developer will be responsible for building the **user interface (UI)** of the Employee Performance Tracking System. The UI should be clean, responsive, user-friendly, and aligned with company branding.

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## 2. Frontend Technology Stack

- **HTML5** → For structuring pages
  - **CSS3 / Bootstrap** → For responsive styling and layout
  - **JavaScript (ES6+)** → For interactivity
  - **Angular** → For building single-page application (SPA) and dynamic components
  - **REST API Integration** → To connect with Spring Boot backend services
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## 3. Key Responsibilities

- Design and implement **responsive UI** with Bootstrap grid system.
  - Develop **Angular components, services, and routing** for different modules.
  - Integrate frontend with backend REST APIs.
  - Implement **data visualization** using charts/graphs (for performance dashboards).
  - Ensure **role-based access** (Admin vs Employee views).
  - Handle **form validations, error handling, and notifications**.
  - Optimize for **speed, usability, and accessibility (WCAG standards)**.
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## 4. Detailed Features (Frontend Modules)

### A. Authentication & Authorization

- Login Page (JWT-based authentication via backend API)
  - Role-based UI (Admin dashboard vs Employee dashboard)
  - Logout functionality
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### B. Admin Dashboard

- **Employee Management:**
    - Add/Edit/Delete Employees (form-based UI)
    - Employee listing with search, filter, pagination
  - **Task Management:**
    - Assign tasks to employees
    - Set deadlines & monitor completion
  - **Performance Tracking:**
    - Weekly ranking view (Top 3 performers, Bottom 3 performers)
    - Graphs (Bar chart for scores, Line chart for trends)
  - **Report Generation:**
    - Download weekly/monthly reports (PDF/Excel trigger to backend)
    - Notification alerts for weak performers
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### C. Employee Dashboard

- **Profile Section:** View/update personal details
  - **Assigned Tasks:** View tasks with deadline & status
  - **Performance Report:**
    - Weekly personal score
    - Strengths & Weakness suggestions
  - **Notifications:** Feedback from managers/HR
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### D. Reports & Analytics (Shared)

- Visual reports (charts, graphs using Chart.js / ngx-charts)
  - Comparison view (Employee vs Team performance)
  - Export options (Excel/PDF via backend)
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### E. UI/UX Features

- **Responsive Design:** Works across desktops, tablets, and mobiles
- **Dark & Light Theme (Optional):** For better user experience
- **Reusable Components:** Navbar, Sidebar, Footer, Cards
- **Interactive Elements:** Modals, Tooltips, Alerts, Toast notifications

- **Validation & Error Handling:** Inline form validations
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## 5. Frontend Pages (UI Flow)

1. **Login Page**
  2. **Admin Dashboard**
    - Employee List Page
    - Add/Edit Employee Page
    - Assign Tasks Page
    - Performance Ranking Page
    - Report Download Page
  3. **Employee Dashboard**
    - Profile Page
    - My Tasks Page
    - My Performance Report Page
    - Feedback & Notifications Page
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## 6. Deliverables from Frontend Developer

- Fully responsive **Angular-based frontend**
  - UI integrated with backend APIs (Spring Boot)
  - Documentation for frontend code & deployment steps
  - Test cases for components (unit testing with Jasmine/Karma)
  - Final delivery of frontend module hosted on company website
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## 7. Timeline (Frontend Only)

- **Week 1:** UI wireframes & design approval
- **Week 2–3:** Employee & Admin login + dashboard screens
- **Week 4–5:** Task management & performance reports
- **Week 6:** API integration & testing
- **Week 7:** Bug fixing, optimization, final delivery