

PROJECT WEEKLY REPORT

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Project Details

Project Title: LiteHR – Lightweight HR & Attendance Management System

Tech Stack: ReactJS, ExpressJS, JavaScript, SQL, NodeJS

Project Objective

To build a lightweight, secure, and efficient Human Resource & Attendance Management System tailored for small organizations — ensuring ease of use, low resource consumption, and cost-effectiveness without the complexity of full enterprise HR platforms.

Weekly Progress Report

Week Number	Week's Reporting Period	Report Submitted On
8	19/1/2026 – 24/01/2026	24/01/2026

Weekly Summary

During **Week 8**, the primary focus was on completing the **frontend–backend integration for all major user roles**, including **Admin, Manager, and Employee**. The goal for this week was to ensure that all previously developed backend APIs are fully connected to the frontend and function seamlessly in real-world usage scenarios.

Significant effort was dedicated to **integrating dashboards, HR workflows, and role-based features** across the system. As part of this process, multiple runtime bugs, API mismatches, and configuration-related errors were encountered, which were systematically identified and resolved.

By the end of the week, the core HR functionalities were fully operational across the frontend for all user roles. This phase marks a major milestone in the project, transitioning LiteHR from a backend-driven system to a fully functional full-stack application.

Frontend–Backend Integration Progress

The system now supports:

- Fully integrated Admin, Manager, and Employee dashboards
- Role-based frontend routing and authorization
- End-to-end HR workflows from frontend to database

- Consistent data synchronization across frontend and backend
- Stable file upload handling via Cloudinary
- Improved frontend error handling and backend validation

Tasks Completed

Admin Panel Integration

- Completed frontend integration for:
 - Admin login and authentication
 - Admin dashboard analytics
 - Employee creation and management
 - Attendance monitoring
 - Leave approval workflows
 - Task monitoring
- Verified Admin access control across all frontend routes

Manager Panel Integration

- Integrated Manager dashboard with backend APIs
- Connected Manager features including:
 - Team attendance view
 - Leave approval and rejection
 - Task assignment and team task tracking
- Ensured department-based access control for managers
- Verified manager actions reflect correctly in the database

Employee Panel Integration

- Integrated Employee dashboard with backend APIs
- Connected Employee features including:
 - Attendance mark in / mark out
 - Leave application and leave history
 - Task viewing and task status updates
 - Daily worklog submission
- Ensured employees can access only their own data

Bug Fixing & Error Resolution

- Fixed authentication and JWT-related integration issues
- Resolved role mismatch and authorization errors
- Corrected API payload and response handling issues
- Fixed frontend state management and loading issues
- Addressed Cloudinary configuration and file upload errors

System Stabilization

- Improved consistency between frontend UI and backend responses
- Enhanced error messages for better debugging and user feedback
- Ensured smooth navigation and role transitions
- Performed regression testing after each fix

Testing & Verification

- Conducted full end-to-end testing for Admin workflows
- Tested Manager and Employee workflows via frontend UI
- Verified database updates for attendance, leave, tasks, and worklogs
- Tested file uploads after Cloudinary fixes
- Ensured system stability across multiple user sessions

Challenges Faced

- Integrating multiple role-based workflows simultaneously
- Debugging frontend–backend API mismatches
- Managing asynchronous frontend state updates
- Resolving file upload and configuration issues
- Ensuring that bug fixes do not impact existing features

How I Solved the Challenges

- Integrated modules incrementally, role by role
- Used backend logs and frontend debugging tools to trace errors
- Verified API behavior using Postman before frontend integration
- Fixed issues step by step to maintain system stability
- Conducted continuous testing throughout the integration phase

Plan for Next Week

- Implement Employee Chatbot for HR assistance and FAQs
- Develop Secure Vault module for employee document storage
- Enhance file security and access control for documents
- Continue system optimization and UI enhancements
- Prepare final demo and documentation