

Employee Management & Tracking System (HRMS)

- Project Documentation

Technologies Used

Category	Tech Stack
Frontend	Next.js, or Bootstrap
Backend	Node.js, Next.js API Routes / Express.js
Database	MongoDB (Mongoose ODM)
Authentication	JWT with secure HTTP-only cookies
Notifications	Nodemailer (Email), Web Push (Optional)
Location Tracking	Manual Form Entry, Optional: GPS (React Native/PWA)
Reporting & Charts	Recharts / Chart.js

Main Modules and Feature Breakdown

1. Employee Module

- Add, View, Edit employee records
 - Auto-generated **unique employee ID**
 - Employee types: Permanent / Prohibition
 - Assign department & manager
 - Secure login credentials
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2. Team Management

- Assign teams under managers
 - View team list per manager or department
 - Admin can reorganize teams
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3. Leave Management

- Leave categories: Sick, Casual, Earned, etc.
 - Leave balance tracking
 - Admin can customize leave rules
 - Shift and workday settings (Mon–Sat, etc.)
 - Auto check-in for holiday/Sunday workers
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4. Attendance System

- Manual and automatic check-in system
 - Track: Present, Absent, Leave, WFH, WFO, Week-Off
 - Reports:
 - Daily
 - Weekly
 - Monthly
 - Yearly
 - Filters by employee, branch, department, designation
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5. Distance Tracking (Remote Employees)

- Manual form-based distance entry:
 - Start/End location
 - Distance (KM)
 - Sites visited
 - (Optional Advanced): Real-time GPS via React Native or PWA
 - Route logging & visit logs
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6. Branch Management

- Admin can add/edit branch locations
 - Used for filtering and reporting
 - Branch-level access (optional)
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7. Notifications

- Leave requests and approvals
 - Internal announcements or notices
 - Email notifications
 - Push notifications (optional)
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8. Reports

- Happiness Index (form-based employee survey)
 - Filters:
 - Employee
 - Branch
 - Department
 - Date range
 - Exports:
 - Excel
 - PDF
 - Visual summary using charts/graphs
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9. Payroll System

- Manage base salary, bonuses, deductions
 - Monthly salary reports
 - Generate payslips (PDF/Excel)
 - (Optional) Bank integration for salary payout
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10. Expenses

- Employees can submit travel/expense claims
- Manager/Admin can approve
- Expense reports by:
 - Employee
 - Branch , Department

Project Timeline (Estimated: 3–4 Months)

Week	Module(s)	Goals
Week 1–2	Project Setup, Auth System	Set up Next.js, MongoDB, JWT auth, Admin/Manager/Employee roles
Week 3–4	Employee Module	CRUD for Employees, Unique IDs, Login credentials, Employee Type
Week 5	Manager & Team Management	Assign managers to employees, and View teams
Week 6–7	Leave Management	Leave types, balance logic, admin rules, holiday auto-check-in
Week 8–9	Attendance System	Daily check-in/out, present/absent/leave tracking, reporting by filters
Week 10	Distance Tracking (Manual)	Distance entry form, KM calculation, site count, reports
Week 11	Branch Management	Add/edit branches, filter views/reports by branch
Week 12	Notifications	Email notifications for leave/announcements
Week 13	Reports Module	Attendance, leaves, remote vs office workers, exports
Week 14–15	Payroll + Expenses	Basic payroll, generate salary reports/slips, and expense claim approval
Week 16	UI Polishing + Deployment	Mobile responsiveness, dashboards, host on Vercel, test all flows