

REVISAAR**REVISAAR**

Cloud-Based HRMS & Employee Engagement Platform | Built From Scratch

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HR Management • Payroll • Biometric Attendance • Recruitment • Employee Engagement • All-in-One

Platform Overview

Revisaar is a cloud-based Employee Engagement and Workforce Management (HRMS) platform designed, developed, and maintained entirely in-house by The Coders Adda. The platform is built to streamline the complete employee lifecycle from recruitment and on-boarding through to attendance, payroll, performance, and off-boarding all within a single, unified system.

Unlike competing products that offer isolated single-function tools, Revisaar was conceived to eliminate HR fragmentation entirely. It integrates biometric hardware for secure attendance tracking, links attendance directly to payroll processing, provides real-time desktop activity monitoring, and delivers employee engagement tools all accessible through centralised dashboards for HR teams and management. Revisaar is scalable, secure, and purpose-built for organisations looking to fully digitise and automate their HR operations.

Platform Modules

Revisaar delivers a complete HR ecosystem through the following integrated modules:

MODULE	DESCRIPTION
On-boarding & Off-boarding	Structured digital workflows for employee joining and exit processes covering documentation, access provisioning, task checklists, and seamless transitions.
Biometric Attendance	Hardware-integrated biometric device connectivity for secure, real-time attendance tracking directly linked to payroll processing for automated salary computation.
Desktop Activity Monitoring	Real-time monitoring of employee desktop activity during working hours providing management with transparency, accountability, and productivity insights.
Recruitment Management	End-to-end recruitment pipeline covering job posting, applicant tracking, candidate evaluation, interview scheduling, and hiring decisions.
Payroll Management	Automated payroll processing with attendance-linked salary computation, deduction management, tax calculations, and payslip generation.

Leave Management	Streamlined leave application, multi-level approval workflows, and real-time leave balance tracking for employees and HR administrators.
Employee Engagement	Built-in survey and feedback tools enabling data-driven insights into employee satisfaction, sentiment, and organisational health.

Technical Challenges

Building Revisaar from scratch required our team to architect and solve the following complex engineering problems:

TECHNICAL CHALLENGE	DESCRIPTION
Fragmented HR Data Architecture	Designed a unified data layer consolidating multiple HR functions attendance, payroll, recruitment, and engagement into a single, normalised schema with centralised API access built on Laravel 12.
Biometric Device Integration	Engineered a real-time hardware-to-cloud integration layer for biometric attendance devices handling device communication protocols, data parsing, tamper detection, and live sync to the platform.
Attendance-Linked Payroll Engine	Built an automated payroll computation engine on Laravel 12 that consumes real-time biometric attendance records, applies configurable deduction and tax rules, and generates accurate payslips without manual intervention.
Real-Time Desktop Activity Monitoring	Developed a lightweight background monitoring agent capable of capturing and streaming desktop activity data at scale without degrading device performance or user experience.
Real-Time Data Sync & Dashboards	Implemented a real-time data synchronisation pipeline on a modern tech stack feeding centralised HR dashboards ensuring live, consistent workforce data is available to management across all modules simultaneously.

Business Solution

To solve these challenges, Revisaar was designed and built from the ground up as a fully integrated, multifunctional HRMS platform:

- **All-in-One HRMS:** Built a unified platform replacing multiple disconnected HR tools covering the full employee lifecycle under a single, centralised system.
- **Biometric & Payroll Integration:** Integrated physical biometric devices with the cloud platform for real-time, tamper-proof attendance tracking linked directly to automated payroll computation.
- **Desktop Activity Monitoring:** Developed a lightweight desktop activity monitoring system providing real-time productivity and accountability data without impacting device performance.

- **Real-Time Dashboards:** Implemented real-time data synchronisation and centralised dashboards giving HR and management a live, unified view of all workforce data.
- **Employee Engagement:** Built employee engagement modules including surveys and feedback tools to support data-driven HR decision-making and organisational health monitoring.

Implementation / Work Done

Platform Architecture & Development

- Architected and built the entire Revisaar platform from scratch on a modern, cloud-native technology stack designed for scalability, security, and long-term maintainability.
- Developed dedicated HR-facing and employee-facing interfaces ensuring a role-appropriate, intuitive experience for every user type across the platform.

Biometric Device Integration

- Engineered a real-time integration layer connecting physical biometric attendance devices to the cloud platform ensuring accurate, secure, and tamper-proof attendance data capture.
- Built a direct pipeline from biometric attendance records to payroll processing automating salary computation and eliminating manual data entry entirely.

Core Modules Delivered

- On boarding & Off-boarding — Digital workflows for employee joining and exit with documentation, task management, and access control.
- Biometric Attendance — Hardware-integrated real-time attendance with direct payroll linkage.
- Desktop Activity Monitoring — Real-time employee productivity tracking with management dashboards.
- Recruitment Management — Full hiring pipeline from job posting to offer management.
- Payroll Management — Automated, attendance-linked salary processing and payslip generation.
- Leave Management — Multi-level leave approval workflows with real-time balance tracking.
- Employee Engagement — Surveys and feedback tools for continuous organisational health insights.

Outcome

Revisaar has established itself as a comprehensive, market-proven HRMS platform with strong global adoption:

◆ Complete HR Digitisation	Revisaar replaces all fragmented HR tools with a single, unified platform covering the full employee lifecycle from hire to exit.
◆ Automated Payroll Accuracy	Biometric attendance data feeds directly into payroll eliminating manual errors and reducing payroll processing time significantly.

◆ Real-Time Workforce Visibility	Centralised dashboards give HR and management a live, unified view of attendance, leave, activity, and engagement data across the organisation.
◆ Enhanced Productivity & Accountability	Desktop activity monitoring and engagement tools drive measurable improvements in employee productivity, transparency, and accountability.
◆ Scalable & Secure Architecture	Built on Laravel12 and a modern cloud-native stack Revisaar is designed to scale with growing organisations while maintaining enterprise-grade data security.