

Project Design Phase

Solution Architecture

Date	21 June 2025
Team ID	LTVIP2025TMID31451
Project Name	Workforce Administration Solution (dev)

Solution Architecture:

Definition:

Solution architecture is a complex process with many components that bridge the gap between business problems and technology solutions.

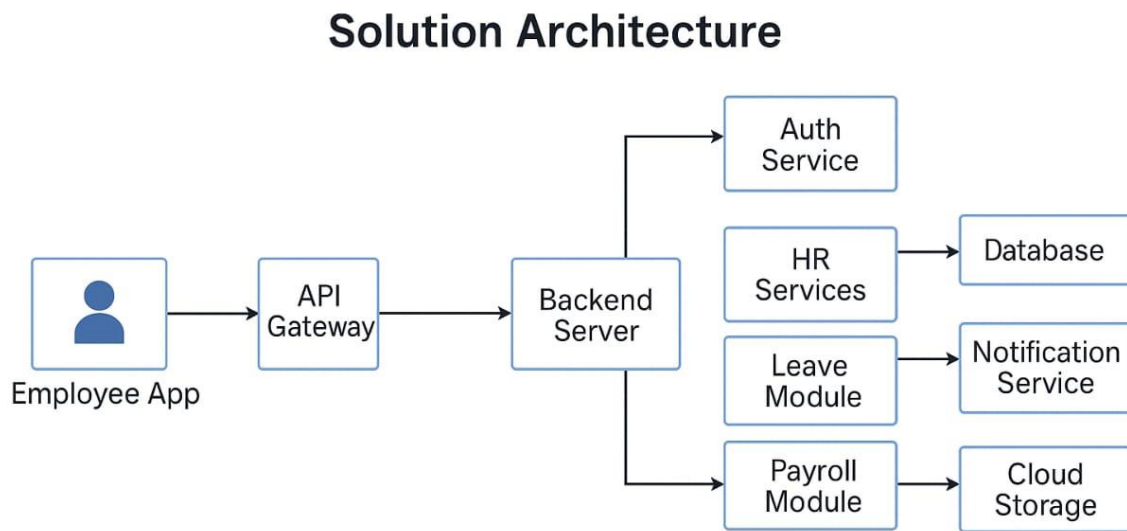
Goals:

- ✓ Identify the best tech stack to automate HR operations (attendance, payroll, leaves, etc.)
- ✓ Define the architecture, behavior, and modules of the system.
- ✓ Outline development phases and technical specifications.
- ✓ Ensure scalability, modularity, and integration with existing systems.

Modules Involved:

Employee Portal (Web/Mobile)
Admin Dashboard
Authentication Module (Role-based login, OTP/email)
Attendance Tracker (Biometric/Geo-fencing)
Leave Management System
Payroll Processor
Notification System (Email/SMS)
Reporting and Analytics Module
Database (Cloud-based, e.g., Firebase, MySQL)
Cloud Storage (For document uploads, payslips)

Example - Solution Architecture Diagram:



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