EMPLOYEE LOGIN PANNEL

1)Authentication & Identity Management

Single Sign-On (SSO) integration (e.g., Microsoft Enter ID / Okta / LDAP / OAuth 2.0)
2FA / MFA (Multi-Factor Authentication)
Role-based access (Admin / HR / Manager / Employee / Intern)
Biometric or smart card access for on-prem systems
Device management (recognize and restrict logins from unknown devices)
Geo-fencing (optional, for security)

2) Employee Dashboard

Personalized welcome message and widgets
Task summary (pending / completed / escalated)
Leave summary and upcoming holidays
Company announcements & internal newsletters
Quick links to HR policies, forms, and tools
Graphical reports of personal KPIs

3) Task & Project Management

Assign, accept, and track tasks
Project creation with milestones, subtasks, and dependencies
Integration with project management tools like Jira or Asana
Gantt charts and timeline view
Task escalations and automated reminders
Real-time status updates and notifications

4) Leave & Attendance Management

Apply leave (CL, SL, PL, WFH, etc.)
Hierarchical approval workflows
Real-time leave balance tracking
Geo-tagged attendance (for hybrid models)
Shift management
Late coming & overtime tracking
Integration with biometric devices

5) Communication & Collaboration Suite

Real-time chat (1:1 and group chats)
Department & project-based channels
File sharing, image & document preview
Voice notes or quick video calls (WebRTC integration)
Integration with Microsoft Teams / Slack
Message pinning, tagging, and reactions
Announcements & broadcast channels

6) HR & Payroll Management

Employee profile management (with KYC and employment history)
Digital onboarding & offboarding
Performance appraisal cycles
Payroll generation and payslips
Expense claims & reimbursements
Tax & compliance integration
Travel management and approvals

7) Performance & KPI Tracking

Goal setting and tracking (OKRs / KRAs)
Weekly, monthly, quarterly review cycles
Peer & manager feedback
360° appraisal reports
Real-time KPI dashboards
AI-based performance insights

8) Learning & Development

Internal LMS (Learning Management System)
Training programs & certifications
E-learning course assignments
Skill gap analysis
Gamified learning badges
Integration with Coursera / Udemy

9) Compliance & Policy Center

HR policies, SOPs, code of conduct
Policy acknowledgment and e-signature tracking
Compliance training and quiz modules
Audit logs and reporting

10) Document Management

Centralized cloud storage for documents
Access control (who can view/edit/download)
Version control
e-Signature support
Secure document sharing (internal & external)

11) Security & Governance (MNC Standard)

End-to-end encryption for chats & sensitive data
TLS/SSL security layers

Role-based and attribute-based access control (RBAC + ABAC)
Data masking & GDPR/ISO compliance
Activity logs and audit trails
Session timeouts and auto lock
Secure API gateways (e.g., Kong Gateway)
Regular vulnerability scans and penetration testing

12) Infrastructure Architecture

Frontend:

React / Angular / Next.js
Responsive + PWA support
Dark mode / Accessibility (WCAG compliant)

Backend:

Node.js / Spring Boot / Django / Laravel
Microservices architecture
REST + GraphQL APIs
Real-time services (Socket.IO / WebSocket)

Database:

PostgreSQL / MySQL for relational data
MongoDB for chat and logs
Redis for caching sessions

Cloud & Deployment:
Amazon Web Services / Microsoft Azure / Google Cloud Platform
Kubernetes or Docker for containerization
CDN for asset delivery
Load balancing and auto-scaling

DevOps:

CI/CD pipelines (GitHub Actions / Jenkins / GitLab CI/CD)
Infrastructure as Code (Terraform / Ansible)
Centralized logging (ELK Stack or Prometheus + Grafana)

13) Analytics & Reporting

Attendance & productivity dashboards
Project performance insights
Budget vs. actual cost tracking
Department-wise performance heatmaps
Automated report scheduling via emailCustom
BI dashboards (e.g., Power BI / Tableau)

14) Mobility & Accessibility

Native or hybrid mobile app (React Native / Flutter)
Responsive web app (PWA)
Push notifications for tasks, leave status, announcements
Voice assistant integration (e.g., chatbots)
Offline sync support (for field employees)

15)

Feature	Employee	Manager	HR	Admin
View own tasks	✅	✅	✅	✅
Assign task	❌	✅	✅	✅
Approve leave	❌	✅	✅	✅
Payroll	❌	❌	✅	✅
View analytics	Limited	Partial	Full	Full
Manage roles	❌	❌	❌	✅