

# CodersGyan Internal Wiki - Extended Version

Section 1: Company Overview CodersGyan is a technology-driven organization focused on building scalable SaaS applications, AI-powered systems, backend architectures, and enterprise-grade solutions. The company emphasizes performance, security, and maintainable system design.

Mission: To build reliable and scalable systems that solve real-world business problems.

## **Section 2: Engineering Standards**

All backend services must follow clean architecture principles. Preferred stacks include:

- Backend: Node.js (Fastify), Go
- Frontend: React, Next.js
- Database: PostgreSQL
- Caching: Redis
- Containerization: Docker
- Orchestration: Kubernetes

Code must be version controlled using Git and reviewed before merging.

## **Section 3: AI & Data Infrastructure**

AI systems are built using Retrieval-Augmented Generation (RAG). Core components include: - Embedding Models (Google embedding-001) - Vector Database (Pinecone) - LLMs (Gemini models) - Document loaders and chunking pipelines All documents must be chunked with overlap for optimal semantic retrieval.

## **Section 4: Security Policies**

Security Guidelines:

- Use JWT authentication with HTTP-only cookies
- Passwords must be hashed using bcrypt (minimum 12 rounds)
- All APIs must enforce role-based access control
- Sensitive data must never be logged
- Environment variables must be stored securely
- Internal documents are confidential.

## **Section 5: Internal Operations**

Team Structure: - Backend Team - Frontend Team - DevOps Team - AI/ML Team  
Release Process: 1. Feature development 2. Code review 3. Staging deployment 4. QA validation 5. Production release All deployments must follow CI/CD best practices.