Engineering Policies

# 1. Coding Standards & Naming Conventions

• Language: Java (Spring Boot), Python for data pipelines  
• Indentation: 4 spaces  
• Naming:  
 - Classes → PascalCase  
 - Variables → camelCase  
 - Constants → UPPER\_CASE  
• Every commit must include JIRA ticket reference

# 2. Code Review Guidelines

• Every Pull Request (PR) requires at least:  
 - 1 peer review  
 - 1 senior engineer review (if production code)  
• Review checklist:  
 - Code readability  
 - Performance optimization  
 - Security vulnerabilities

# 3. Deployment Guidelines

• Use Jenkins CI/CD pipelines  
• All builds must pass unit tests (80% coverage minimum)  
• Staging approval required before production  
• Rollback plan must be documented for each release

# 4. API Documentation Policy

• All APIs must be documented using Swagger/OpenAPI  
• System architecture diagrams must be updated in Confluence  
• Each microservice must include README.md in repository