

System Architecture Overview

1. Backend Services

The system consists of multiple microservices built using Spring Boot.

Each service communicates via REST APIs.

2. Database

PostgreSQL is used as the primary database.

Redis is used for caching frequently accessed data.

3. Authentication

Authentication is handled via JWT tokens issued by an API Gateway.

4. Scalability

The system supports horizontal scaling using Kubernetes and Docker containers.

5. Monitoring

Application logs are monitored using ELK stack.

Metrics are captured using Prometheus and visualized in Grafana.