

System Architecture v2.0 - Part 1

1. Overview

The system utilizes a microservices architecture running on Kubernetes clusters.

2. Components

- Load Balancer: Nginx Ingress Controller.
- Backend: Python FastAPI services.
- Frontend: React.js SPA served via CDN.

System Architecture v2.0 - Part 2

3. Database Schema

Primary storage is PostgreSQL 14.

- User Table: UUID (PK), Email (Unique), Hash.
- Transaction Table: ID (PK), Amount, Timestamp, User_FK.

4. Redis Caching

Session data is stored in Redis with a TTL of 30 minutes to reduce database load.