Legend

Frontend
React

Backend
SpringBoot
Python

Database
PostgeSQL

Monitoring
Grafana
Prometheus

Gateway
Nginx

Workflow

Top level Architecture

API Gateway

User / Student —HTTPS— Frontend / UI —REST—

REST— Authentication Service

Load User Context

REST— Upload Files Service —JDBC— User Data, Files, Content

Course Information

REST
REST— Course Management Service

Add Summarized Chapter

Summary Request

REST / FastAPI — GenAI Service

Observe and Monitor ==> Grafana and Prometheus