

BU Course Builder

Group 1 (Eagles!)

Team Introduction

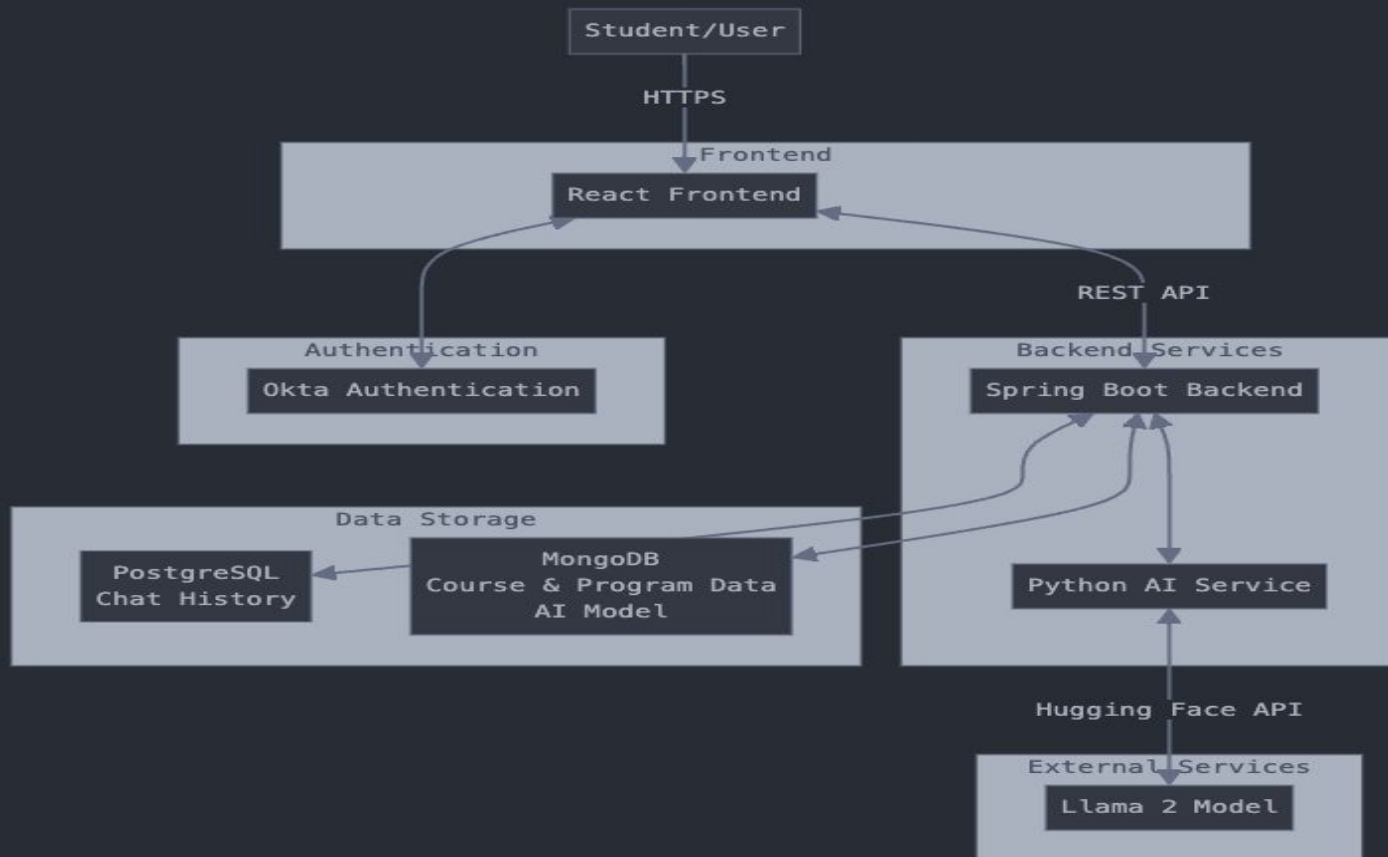
- Natasha Liew (Team Leader)
- Ananya Singh (Security Lead)
- Battal Cevik (QA Lead)
- Natthaphon Foithong (Design and Implementation Lead)
- Poom Chantarapornrat (Requirement Lead)
- Yu Jun Liu (AJ) (Configuration Lead)

Overview of project

- Personalized AI Course-Builder Application
- Features include: chat history sharing, emailing, caching, and user authentication
- Related work: Coursera, Degree Compass

Tech Stack

- Languages: Typescript, Java, Python
- Frameworks: React, Redux, Spring Boot, Flask
- Databases: Postgres, MongoDB
- Authentication: Okta
- LLM: Llama 2
- APIs: Hugging Face API



Management Plan

- Front-End Development (Front-End Engineer) -> Nat
- Back-End Development (Java and DB Team) -> Ananya/AJ
- Integrated CI/CD and Testing (QA Lead) -> Battal
- AI Service Development (AI Team) -> Natasha/Poom

Configuration

- Tools: Github, IDEs, CI/CD tools, Github Issues, potentially Docker
- Branching strategy: Three different branches (main, stage, development)
- Feature branches: feature/member-name-feature-description
- Pull Requests strategy
 - Must be submitted to development branch for review
 - Needs one other team member review and approval
 - Must pass all checks in CI/CD pipeline before merging

Quality Assurance

- Comprehensive Quality Assurance Plan
- Robust Coding Standards & Review Process
- Multi-Tiered Testing Strategy
- Automated Testing Framework
- Efficient Defect Management

Risk Management

- Main risks identified: dropping out, lack of motivation, and inconsistent work output
- Communication via Discord
- Aware of integration challenges, lack of testing, and technology learning curves

Team Github and UI Mockups

- <https://github.com/BUMETCS673/seprojects-cs673olf24team1>
- <https://www.figma.com/design/gjNG1bADwnFxxgDqclMwQVQ/Chat-AI-Bot---673ONE---final-mockup?node-id=0-1>