

Team 19: Canvas

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Project & Team

Project Name: Canvas Re-design

Value Proposition: For college students overwhelmed by Canvas, our tool simplifies assignment tracking and deadlines in one clean interface, reducing stress and improving organization

Team Members and Roles:

- Hyuntaek Oh - Chatbot
- Sydney Cunningham - Frontend
- Nathan Kavan - Testing + Calendar
- Jingwen Qian - Database
- Yeongseok Lim - Reminders
- Chiara Kenagy - To-do

Problem & Users

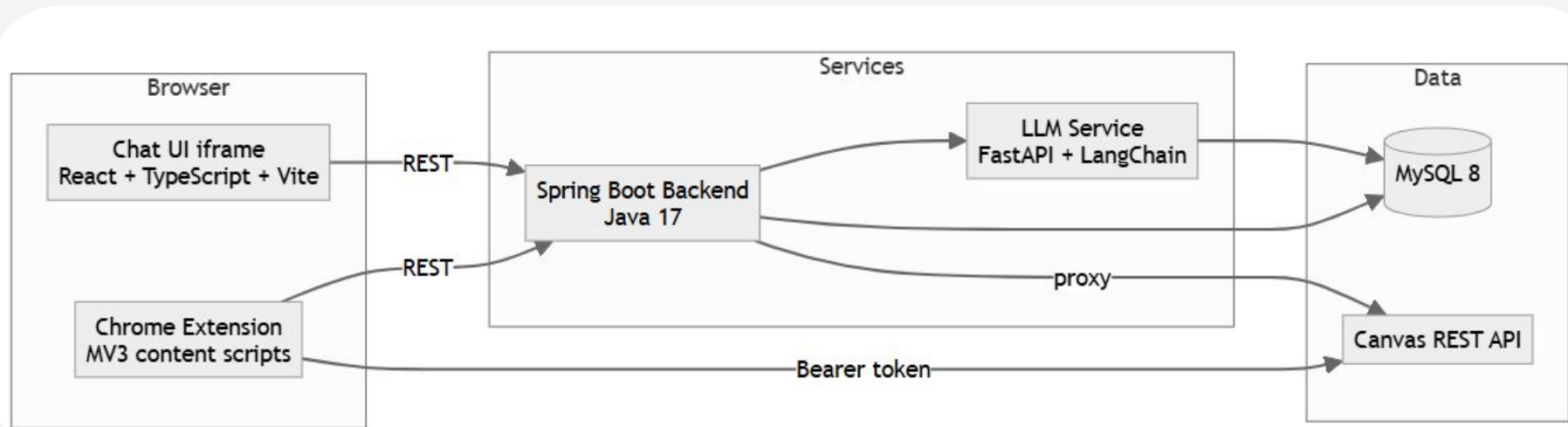
Problem Statement: Students using Canvas struggle to manage assignments across multiple courses due to a cluttered interface, making it difficult to track deadlines and stay organized

Target Users: College students using Canvas for multiple courses

Primary User Stories:

- As a User, I want a todo list feature to organize my assignments.
- As a student, I want AI assistant to ask complex course policy and assignment description
- As a student, I want to receive reminder notifications for upcoming assignments

Architecture Stack



User-Story Driven Features

Todo List + Custom Todo Items

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Reminder

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Chatbot

⋮

Calendar

Engineering Practices

Backend / DB : UI → TodoController → TodoService → MySQL

Docker : Chrome Extension: not dockerized, No remote deployment

- frontend (React/nginx) · :3000
- backend (Spring Boot) · :8080
- llm-service (FastAPI/LangChain) · :8001
- db (MySQL) · :3306
- db-bootstrap (init only)

CI/CD : Test Suite - JUnit and Jest,
Linting - Maven Checkstyle, ESLint

Broken Artifacts: 1 & 2

Future Work



Feature Polish

- **#125**
Calendar: show custom tasks alongside assignments
- Chat: view and resume past conversations
- **#159**
Reminder: UI polish for cleaner experience



Reliability

- Save chat history across server restarts



Deployment & Reach

- **#137**
Host on a real server (beyond local setup)
- Support other universities beyond UW-Madison

Thank You!