CS ADVISOR PLATFORM

Intelligent Course Recommendation System

By: Prashant Banjade Under the Mentorship of **Dr. Yujian Fu**

Problem Statement

Why does this matter?

Manual prerequisite checks are time-consuming and error-prone. Advisors need a fast, reliable way to plan courses, and students need clarity on what they can take next.





Solutions Statement

Streamlined Course Recommendation

Manual Course Selection

Time-consuming, inconsistent recommendations

Auto-Validate Prerequisites

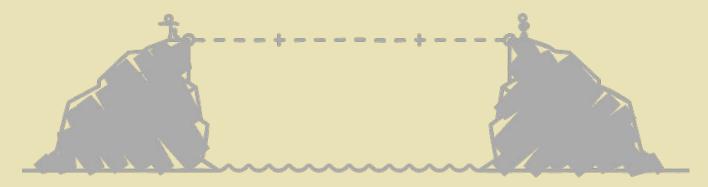
Platform checks required knowledge

Recommend Next Courses

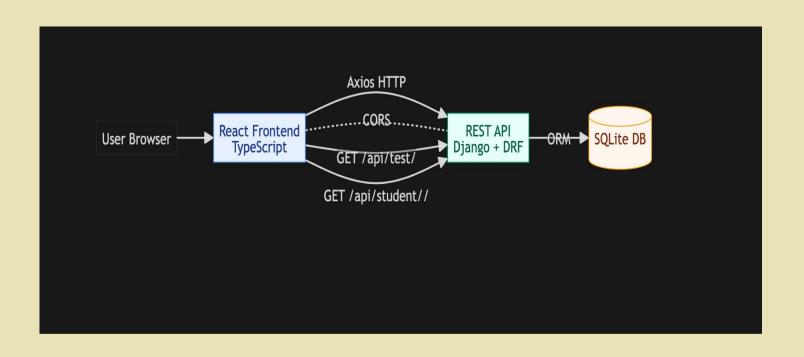
AI suggests relevant learning paths

Automated Course Guidance

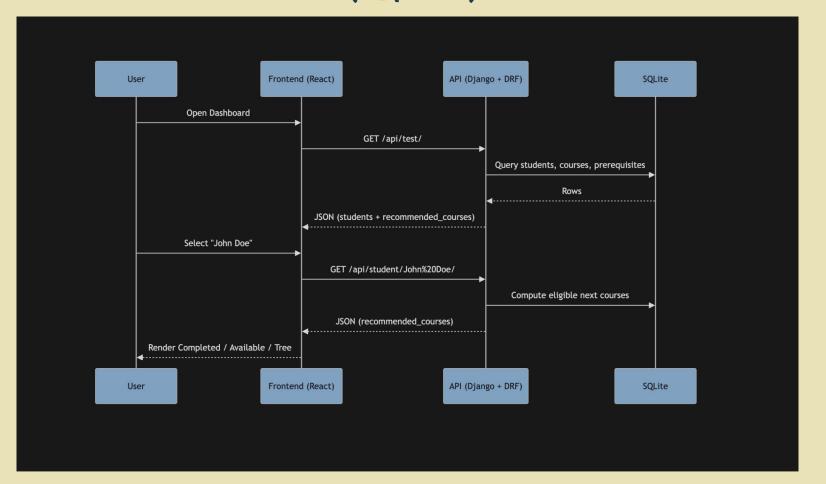
Efficient, transparent, scalable learning



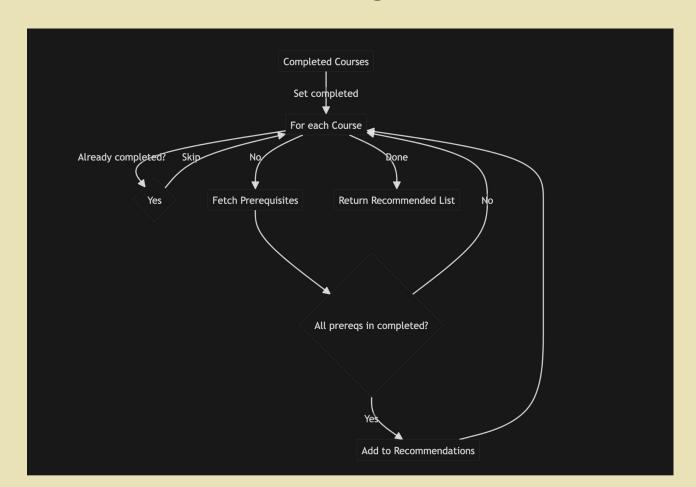
High-level Architecture (Flow)



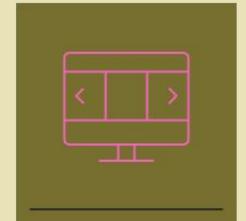
Data Flow (Sequence)



Recommendation Logic



Tech Stack Components



Frontend

React 18, TypeScript, Tailwind (CDN), Axios.



Backend

Django 5, DRF, SQLite, django-cors-headers.

THANK YOU