

Day 7 – AI Class Assistant Development Plan

Person 1 – Backend (Flask/FastAPI & MongoDB)

- Quiz & Flashcard API Enhancements: Add pagination, filtering by lecture/date, and search by keyword.
- Progress Tracking Endpoint: Create `/progress/` endpoint to return quiz stats and flashcard review counts.
- Error Handling Improvements: Implement global error handler with standardized JSON messages and proper status codes.
- Postman Tests: Write and save Postman collection for new endpoints (`GET /quiz`, `GET /flashcards`, `GET /progress`).

Person 2 – Frontend (React)

- Progress Tracking UI: Create a new Progress page showing quiz performance and flashcard review counts using Chart.js or Recharts.
- Search & Filter in Quiz/Flashcards Page: Add search bar and filter dropdown, connect to backend API.
- Error Display: Implement global error alert/toast for API failures with user-friendly messages.
- UI Polish: Add consistent gradient background, clean card layout, and make design responsive.

Integration Point: By the end of Day 7, Person 1's backend updates should be fully consumable by Person 2's frontend changes. Coordinate API request formats early in the day to avoid mismatches.