

Day 9 - AI Class Assistant Task Plan

Person 1 - Frontend Focus

Update Flashcard UI to Show Metadata:

- Modify FlashcardViewer to display topic tags (badges), difficulty (color coded), time taken (mm:ss).

Update Flashcard Creation Form:

- Add fields for selecting difficulty and topic tags.
- Automatically measure time taken from form open to save.

Integrate with Backend:

- Ensure the new metadata is sent when saving flashcards.
- Test by creating new flashcards and verifying metadata in UI and MongoDB.

Person 2 - Backend Focus

Add Flashcard Metadata to Backend:

- Update the MongoDB schema for flashcards to store topic_tags (array), difficulty (easy/medium/hard), time_taken (seconds).
- Add validation to reject invalid data before saving.

API Endpoint Update:

- Modify flashcard_route API to send new metadata to frontend.
- Ensure backward compatibility so old flashcards without metadata don't cause errors.

Test with Postman:

- Create test cases for valid metadata, missing metadata (defaults), and invalid metadata (should fail validation).