Summary of Completed Work

◆ **1. Summarizer Setup**

- **Model Used:** sshleifer/distilbart-cnn-12-6 via Hugging Face.

- **Library:** Transformers pipeline.

- **Usage:** Converts uploaded lecture text into summaries.

- **MongoDB Collection:** summaries

- **Storage:** Each summary includes:

    o summary

    o timestamp

    o original_text

◆ **2. Quiz & Flashcard Generator**

- **Quiz Format:** MCQs (Multiple Choice Questions).

- **Flashcard Format:** Term-definition pair.

- **Function File:** utils/quiz_generator.py

- **Stored in MongoDB:**

    o **Collection:** quizzes

        ▪ Fields: summary_id, questions

    o **Collection:** flashcards

        ▪ Fields: summary_id, cards

◆ **3. MongoDB Integration**

- **Connection File:** Reused existing DB connection (MongoDB Atlas Driver).

- **Collections Created:**

    o summaries

    o quizzes

    o flashcards

◆ **4. Testing Done**

- Summary created and stored in summaries.
- Summary ID used to generate:
  - Quiz stored in quizzes.
  - Flashcards stored in flashcards.