

CPSC 304 Project Cover Page

Milestone #: ____1____

Date: ____Feb 9th, 2024____

Group Number: ____26____

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Milestone 1: Project Proposal and ER Diagram

1. Cover page

2. A brief Project description answering these questions:

a) **What is the domain of the application? Describe it.**

The domain of our project is education technology and study material management. Users can use technology (AI-generated notes) and other tools such as user/AI-created flashcards and quizzes to study more effectively. The created study material can then be stored and organized within folders (Topic) for easy management, and can also be shared between different users and groups. Our app allows users to easily create, store, manage, and share study material. Refer to the next part for more implementation details.

b) **What aspects of the domain are modelled by the database?**

Our project allows users to create and keep track of their own topics, notes, quizzes, and flashcards to help them study. They can also share their study material with other users, search for other user's study material, and join study groups. For example, a user who wants to learn about relational databases can create a topic called "Relational Databases", create notes/quizzes/flashcards within the topic, and use them to study. They can also share the topic with other people, search for other people's notes on relational databases, and join study groups for relational databases where they can share notes within those groups.

3. **Database Specifications**

- Support user login and account creation
- Users can create/delete/edit their topics and study materials
- Users can store their topics (which are like folders) and study materials (notes/flashcards/quizzes)
- Users can search for topics and study materials created by other users
- Users can join study groups
- Users can share study materials within study groups

4. **Describe the application platform**

a) **What database will your project use?**

MySQL

b) **What is your expected technology stack?**

Javascript + React Native for frontend, Node.js + Express for backend REST API

5. **See on next page**

6. **Additional Notes on ER Diagram:**

- QuizQuestion and Card aren't weak entities of Quiz and FlashcardSet because users can generate them from notes and keep them as "unfinished", and therefore not yet added to a Quiz or FlashcardSet
- The idea behind Topic and StudyMaterial is that a Topic is like a folder that users can create, and then users can create StudyMaterial inside of the Topic. Each StudyMaterial is one of FlashcardSet, Quiz, or StudyNotes.

