

Project Proposal

CS476

Winter 2025

Project Title

Flashcard Management and Creation Service - "**Flick** - *Your flashcards are just a click away*"

The name 'Flick' embodies the motto while also suggesting qualities towards our software like quick and snappy service.

Team Members

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Project Description

Studying for exams or reviewing course material for quizzes can be a tiring process, especially when there is a substantial amount of material to review. Students often seek out tools and methods to speed up their studies and save time.

Using digital tools and methods to study has proven to be an effective and efficient way for students to learn material as there are now many unique options available offering digital educational tools that help in areas like writing, reading, coding, and note taking.

Therefore, a platform is needed to serve the educational domain in terms of helping cover the need for creating, managing, and presenting coursework material in a clear and concise manner that is easy to digest while also maintaining time efficiency, robustness, correctness and aiming to serve user satisfaction.

User Role 1: Creating a Flashcard Set

- **Functional Requirements**
 - Logging in (for existing users)
 - Signing up (for new users)
 - Name flashcard set

- Provide descriptions for flashcard set
- Add individual flashcards to the set
- Add text to the front and back of the flashcard
- Save flashcard set

- **Quality Requirements**

- Correctness: After creating a flashcard set, the user attempts to save the set. The website should register this action as a valid input and based on that, it should correctly save and show the newly created flashcard set.
- Robustness: When trying to login, if the user tries to leave one of the credential's fields empty, then the website should recognize that as an invalid input and, therefore, display an error message to the user.
- Time-efficiency: After logging in as a returning user, the website should validate the credentials entered and take the user to their dashboard in a timely manner.

User Role 2: Managing a Flashcard Set

- **Functional Requirements**

- View a list of all the flashcard sets under your account
- Rename flashcard sets under your account
- Change flashcard set description
- “Play” a set (Should have some options, like shuffle cards, time per card, etc.)
- Delete a flashcard set
- Edit a set
- Reorder flashcards in set
- Share a set with someone else.
- View sets shared with you.

- **Quality Requirements**

- Correctness: The user attempts to delete a flashcard set (a correct input) and, based on that, the website deletes the selected flashcard set successfully.
- Robustness: The user tries to rename a flashcard set to have a blank for the name field. The website should recognize that it is invalid to have a blank for the flashcard set's name and display an error message.
- Time-efficiency: The user tries to change the description of a flashcard set. After adding in a description or editing in a new one and saving the changes, the website should register the changes and display them in a timely manner.