

Problem Statement

Flashcards provide an efficient way of learning new material or definitions. Compared to physical flashcards, digital flashcards are faster to make, easier to modify, and are able to easily be taken on the go. However, many flashcard applications don't meet users' desires. Users desire a platform with a simplistic UI but still contains all of the features they want and need.

Technical Solution

Scenario 1: Emma has a Spanish exam coming up. She wants to create flashcards to help her memorize the necessary vocabulary. She uses the mobile flashcard app to create flashcards for the vocabulary covered in the exam. It provides her with an efficient way to study without using many resources.

Scenario 2: John has his citizenship interview coming up. He wants to be able to review the questions whenever he has a free moment. He uses the mobile flashcard app to create flashcards for each of the questions which allows him to study whenever he has time to spare.

Glossary

Flashcard Set: A way to group flashcards into separate topics. For example, a set of flashcards for exam 1 and another set will cover exam 2. Each flashcard set can have a name to indicate what they cover.

Flashcard: A digital card that has a front and a back side. A flashcard may include a question on the front side and the answer to the question on the back side.

User: Someone who uses the flashcard app.

High Level Requirement

- Create a flashcard set (anyone)
- View flashcard sets (anyone)
- Update a flashcard set (anyone)
- Delete a flashcard set (anyone)
- Create a flashcard (anyone)
- View a flashcard (anyone)
- Update a flashcard (anyone)
- Delete a flashcard (anyone)

User Stories/Scenarios

Flashcard Set

Create a Flashcard Set

A user will be able to create a new container for a set of flashcards with a unique name.

Pre-condition: The name must be unique.

Post condition: A new flashcard set is created.

Edit a Flashcard Set Details

A user will be able to edit the name of a flashcard set.

Pre-condition: A flashcard set must exist.

Post-condition: The name must be unique.

Delete a Flashcard Set

A user will be able to delete an entire flashcard set.

Pre-condition: A flashcard set must exist.

Post-condition: The selected flashcard set must be deleted.

View Flashcards in a Flashcard Set

A user will be able to select a flashcard set to view the flashcards it contains.

Pre-condition: A flashcard set must be selected.

Post-condition: Flashcards of the selected set will be displayed.

Flashcard

Create a Flashcard

A user will be able to create a flashcard in a flashcard set.

Pre-condition: A flashcard set is selected.

Post-condition: The new flashcard is added to the selected set.

View a Flashcard

A user is able to view flashcards one at a time. The user will be able to swipe to view the next card.

Pre-condition: A flashcard set is selected.

Post-condition: One flashcard from the set is shown at a time.

Edit a Flashcard

A user is able to edit the information in a flashcard.

Pre-condition: A flashcard is selected.

Post-condition: The selected flashcard is updated with the new information.

Delete a Flashcard

A user is able to delete a single flashcard from a flashcard set.

Pre-condition: A flashcard is selected from a flashcard set.

Post-condition: The single card is deleted from the flashcard set.

Stretch Goals

Randomize Flashcard Display

A user is able to select if they want the flashcards in a flashcard set to be displayed in a random order.

Pre-condition: A flashcard set is selected.

Post-condition: The flashcards in the selected set are displayed in a random order.

List View

A user can select if they want to view the flashcards in a list view instead of a card view.

Pre-condition: A flashcard set is selected.

Post-condition: The user is able to view the cards in a list view. There will be an option to switch back to card view.

Share a Flashcard Set

A user is able to click a 'Share' button to share their flashcard set with others via email or phone number.

Pre-condition: a 'Share' button is available and a flashcard set is selected.

Post-condition: The set of flashcards is shared with the person selected.

Modify App Colors

A user will be able to select the colors they want the cards to display as.

Pre-condition: None.

Post-condition: Cards for all sets will display as the colors the user selected.