End Term Project
Mobile Application Development 1

FlashLearn

Submitted By:

Celeste, John Andrei S.

Babuyog, Jedidiah Zoe M.
BSIT - 3A

Submitted To:

Mr. Arni-Rie F. Tamayo
Instructor

December 30, 2024

Application Name: FlashLearn

Rationale: Reading notes or highlighting text, often lack engagement and fail to reinforce knowledge effectively. With FlashLearn, users can create personalized flashcards with terms or questions on one side and answers on the other, then flip through them for easy review. A simple swipe lets users track correct or incorrect answers, and missed cards are automatically saved for focused review later. Plus, a text-to-speech feature allows the app to read questions aloud, adding an auditory element to reinforce learning and improve focus.

Features:

1. **Topic Dashboard**
   - A user-friendly dashboard displaying a selection of topics.
   - Users can create personalized topics, which are automatically added to the list of available topics in the dashboard.

2. **Topic Management**
   - Users can edit or delete existing topics to ensure the content stays relevant and organized

3. **Flashcard Creation and Management**
   - Users can add custom flashcard questions and answers to any selected category
   - Flashcards can be edited or deleted to maintain accuracy and relevance.

4. **Search and Filtering**
   - A search filter that will allow users to sort and find topics quickly based on their preferences.

5. **Interactive Flashcard Mode**
   - A "Play" button launches an interactive session with the selected flashcards.
   - A pop-up modal that will provide clear instructions on how to use the flashcards for efficient learning.

6. **Text-to-Speech Integration**
   - The app reads the flashcard content aloud using a built-in-text-to-speech feature that will enhance auditory learning and improve focus.
7. **Result Viewing**
   - A result screen displays the number of correct answers at each session that will allow users to see the result of the assessment.
   - Users can view a list of missed flashcards for focused review. This will help users to concentrate reviewing on missed questions, serving as a reminder to improve understanding of these specific areas.
8. **Assessment History**
   - A dedicated history section allows users to view past assessments, including the topic, scores, and the date each assessment was taken.

Target Users:

FlashLearn is designed for audience, catering the various learning needs:

1. **Students**
   - High school and college students preparing for exams or quizzes can use FlashLearn to create and study flashcards for subjects like mathematics, history, or languages.
2. **Professionals**
   - Professionals studying for certifications or career development can use FlashLearn for structured study sessions.
3. **Language Learners**
   - Individuals learning new languages can benefit from FlashLearn by creating flashcards for vocabulary, grammar rules, or pronunciation tips.
4. **Educators**
   - Teachers and tutors can create flashcard sets with their students for collaborative and engaging learning sessions.

5. **Self-Learners**
   ● Lifelong learners exploring new skills or hobbies can use FlashLearn for structured and effective learning.

Importance and Novelty of Application

FlashLearn stands out as a versatile and engaging tool for knowledge and study:

1. **Enhances Retention**
   ● The app's interactive and gamified approach to learning improves information retention compared to traditional study methods like note-taking or highlighting.
2. **Personalized Learning Experiences**
   ● Users can customize topics and flashcards based on their unique learning goals, ensuring relevance and engagement.
3. **Convenience and Accessibility**
   ● The mobile-friendly design allows users to study anytime, anywhere, transforming idle moments into productive learning sessions.
4. **Multi-Sensory Learning**
   ● The text-to-speech feature introduces an auditory component to learning, catering to auditory learners and enhancing focus.
5. **Interactive Review**
   ● A swipe to mark answers as correct or incorrect keeps users actively engaged. The app automatically saves missed cards after every flashcard session for users to be reminded of the specific topics they need to focus on reviewing.
6. **Assessment History**
   ● The assessment history feature provides valuable insights into progress that motivates users to improve.