

FlashCard System - Product Vision

1. Problem Statement

Students often struggle to organize study content and review efficiently before exams. Teachers also need a simple way to share structured flashcard materials. Many existing solutions are too complex or lack clear organization and progress tracking, leading to frustration and wasted study time.

2. Target Audience

A) Students (10-35 years old)

- Prefer simple and fast tools to create study materials
- Need review and quiz features to improve memorization
- Want progress tracking to identify weak topics and improve
- Expect an easy interface that is not confusing

B) Teachers (25-60 years old)

- Want to upload flashcard sets quickly as study materials
- Need an easy way to share content with students
- Want basic progress/statistics to understand student results

3. Value Proposition

FlashCard System provides a simple and organized flashcard learning platform for self-study and classroom use. Students can create, review, and practice with quizzes, while teachers can upload and share flashcard sets. Progress tracking and statistics help users study more effectively than manual notes or scattered tools.

4. Key Features

- Flashcard Management (Student): create, edit, delete flashcards
- Study & Quiz Mode: review flashcards and generate quizzes from sets
- Teacher Upload Sets: upload and share study materials
- Progress Tracking & Statistics: accuracy, completion rate, progress per set
- Database Storage (MariaDB): users, sets, flashcards, quiz results, progress
- JavaFX UI: simple dashboard for navigation and ease of use

5. Goals & Objectives

- Increase user adoption by 30% within 2 months through class testing
- Reach a user satisfaction score of 4.0/5 or higher after feedback collection
- Deliver a working MVP and demonstrate a strong software development process

6. Vision Statement

Our vision is to build a simple and effective flashcard application that helps students study better and helps teachers share learning materials faster. By combining flashcards, quizzes, and progress tracking in one easy-to-use system, we aim to improve learning efficiency and user experience.