**Release Plan**

Rapid Review

Developed by the Jetskiz

V1.0, released on 12/03/24

Revision #1, 10/16/24

#### **High Level Goals**

1. Be able to perform CRUD operations on sets
2. Be able to perform CRUD operations on individual flashcards
3. Be able to generate tests from a set
4. Utilize an LLM in the test generation

#### **Sprints and User Stories**

##### Sprint 1: Wed 10/9 to Tu 10/22

* + MH1. As a student, I want to organize my flashcards into sets, so I can
  + study cards that are relevant to each other.
    - Story Point: 8
  + MH2. As a student who uses various study platforms, I want to use flashcards from other places on this website, so I don’t waste time creating sets that already exist.
    - Story Point: 13
  + MH3. As a student, I want to transfer my notes into flashcards, so I
  + can study in a variety of active ways.
    - Story Point: 8
  + SH1. As a student, I want to know when a card I just wrote is already in the set, so I don’t make unnecessary duplicates.
    - Story Points: 3
  + Spikes:
    - Get familiar with new technologies
      * Git techniques, React, Node/Express, and Firebase
    - Researching OpenAI APIs and prompt engineering
  + Infrastructure Tasks
    - Set up framework for front end, back end, and database
    - Install each technology and framework locally for each team member
  + Outside events:
    - CSE 115A Test 10/25
    - Jiemas, Serene CSE 102 Midterm, 10/21
    - Tiffany, Baskin Day, 10/25
    - Tiffany, CSE 114A midterm??
    - Kev, Ministry stuff
  + Total Story Points: 32

##### Sprint 2: Wed 10/23 to Tu 11/5

* + MH1. As a student, I want to practice answering multiple-choice questions created from my flashcards, so that I can study in an active way. (Not LLM tied-in)
    - Story Point: 13
  + SH1. As a student, I want to practice answering free response questions created from my flashcards, so that I can study in an active way. (No LLM tie in)
    - Story Points: 5
  + MH2, As a new site visitor, I want to create an account so that I can create sets personal and viewable to me.
    - Story Points: 8
  + SH3. As a previous site visitor, I want to login so that I can see the sets that I have created
    - Story Points: 5
  + CH1. As a student, I want to mark specific cards in my set, so I know to focus my study effort on these cards.
    - Story Points: 3
  + Spikes:
    - Prototyping LLM output into the test generation
      * In preparation for next sprint
  + Infrastructure Tasks
    - Should be done by end of sprint 1
      * If not, resume completion in this sprint
  + Outside events:
    - Kev, Test 10/30
  + Total Story Points: 34

##### Sprint 3: Wed 11/6 to Tu 11/19

* + MH1. As a student, I want the wrong options in the multiple-choice questions to be relevant to the question, so I study better. (The LLM tie-in)
    - Story Points: 21
  + SH1. As a student, I want the wording of the correct answer in multiple-choice questions to vary, so I avoid memorizing the answer and focus on understanding it. (LLM tie in)
    - Story Points: 8
  + SH2. As a student, I want to be able to search for specific flashcards within a set, so I can quickly update or find the information I need.
    - Story Points: 3
  + Spikes
    - Learning OpenAI API
    - Exploring and finalizing LLM choice
    - Researching ideal LLM prompts
  + Outside events:
    - Jiemas, CSE 102 Midterm, 11/13
  + Total Story Points: 32

##### Sprint 4: Wed 11/20 to Tu 12/03

* + SH1. As a student, I want my answers to free response questions to have correct evaluations, so I can focus on remembering concepts rather than memorizing the exact wording of the flashcard. (LLM tie in)
    - Story Points: 21
  + SH2. As a student repeatedly studying the same set through test generation, I want the questions to occasionally have varied phrasing, so I avoid memorizing. (LLM tie in)
    - Story Points: 8
  + SH3. As a student repeatedly studying the same set through test generation, I want the options of multiple choice questions to occasionally have varied phrasing, so I avoid memorizing.
    - Story Points: 8
  + Spikes
    - Continue learning OpenAI API
    - Finalizing LLM choice (if not done in Sprint 3)
    - Continue researching ideal LLM prompts
  + Outside Events:
    - Thanksgiving: 11/27 - 12/1, NO WORK
    - Finals Prep
  + Total Story Points: 37

##### Sanity Check:

* + Total Story Points: 135

#### **Infrastructure**

* Front-End
  + React, MUI, Vite
* Back-End
  + Express.js (Node.js), OpenAPI
* Server
  + Firebase Realtime Database
* LLM
  + TBD
* Web-based Agile Tools
  + Jira
* Version Control
  + Github
    - Emails:
      * Jianwenwu15 ([jianwen.wu03@gmail.com](mailto:jianwen.wu03@gmail.com))
      * [serenexheng04@gmail.com](mailto:serenexheng04@gmail.com)
      * [tiguan2244@gmail.com](mailto:tiguan2244@gmail.com)
* Testing:
  + eslint, jest, nodemon, supertest puppeteer

#### **Product Backlog**

##### User Stories

**Should Have**

* As a student, I want to write correct answers to free response questions and have correct evaluations so that I can focus on remembering the concept rather than memorizing the exact wording of the flashcard. (LLM tie in)
  + Story Points: 21
* As a student repeatedly studying the same set, I want the tests to reword the correct answers occasionally so that I avoid memorizing the correct answer and focus more on remembering the concept (LLM tie in)
  + Story Points: 8
* As a student repeatedly studying the same set, I want the tests to reword the questions occasionally so that I focus more on remembering the concept (LLM tie in)
  + Story Points: 8

**Could Have**

* As a student, I want to be able to sort my flashcard sets (date created, alphabetical, last used, etc)
  + Story Points: 5
* As a student, I want tests I generate to have true or false questions when a flashcard has a true or false back.
  + Story Points: 5
* As a student studying with friends, I want to change access to my sets so that my friends can study the sets I make.
  + Story Points: 13
* As a student studying with friends, I want to allow my friends to copy my flashcard set so that they can modify their own copy
  + Story Points: 13
* As a student, I want to be able to do basic formatting of individual flashcards (italicization, bolding, unorder/ordered lists, indents, paragraphs, etc.) so that I can include more specific information on the cards
  + Story Points: 13
* As a student, I want to insert images on individual flashcards so that I can include more specific information on the cards
  + Story Points: 21
* As a math/physics student, I want to write math equations and symbols on individual flashcards so that I can include information of that type on cards
  + Story Points: 21
* As a mobile user, I want to use the website normally with no weird formatting so that I don’t need a computer to use the website.
  + Story Points: 13

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