**Release Summary**

Rapid Review

Developed by Jetskiz

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### Key User stories and acceptance criteria

* As a student, I want to transfer my notes into flashcards, so I can study in a variety of active ways.
  + Acceptance Criteria:
    - I can create a new card
    - I can see existing cards
    - I can modify the front and/or back of the card
    - I can delete a card
* As a student, I want to organize my flashcards into sets, so I can study cards that are relevant to each other.
  + Acceptance Criteria:
    - I can create a new set
    - I can see existing sets
    - I can modify the name and/or description of the set
    - I can delete a set
* 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.
  + Acceptance Criteria:
    - I can quickly add many cards at once to a set
    - The imported cards work just the same as manually-added cards
* As a student, I want to practice answering multiple-choice questions created from my flashcards, so that I can study in an active way.
  + Acceptance Criteria:
    - I can generate a multiple-choice question quiz from a set
    - I can select different options for each question
    - I can know which questions I got right and wrong and what the correct answer is
    - I can know my score
* As a student, I want the wrong options in the multiple-choice questions to be relevant to the question, so I study better.
  + Acceptance Criteria:
    - Some of the wrong answer options for each question I see are related to the question
    - The wrong answer options for each question I see are actually wrong, for the most part
    - The correct answer option I see for each question is different whenever I generate a new quiz occasionally
    - The correct answer option is still correct, for the most part

### Known Problems

* Bugs:
  + Performance issues on CreateSetPage once number of cards goes over 100
  + LLM-genereated answers are commonly wrong when they should be correct and correct when they should be wrong
  + When opening a set, updating terms will lag
  + Deleting a card then adding a new card with the exact same front will cause duplicate card issues
  + Pressing AI and then QuizMe without waiting will cause the generated quiz to have blank AI answer options
* Omissions:
  + Unknown what will happen if an input field is given an incredibly long string
  + Despite having basic authentication, security vulnerabilities are unknown
  + Imported cards cannot have newlines or tabs within card data because those are used as parsing
* Design shortcuts:
  + Backend tests do not utilize a test double when testing endpoints that interact with database
    - Consequently, most tests do not follow FIRST principles

### Product Backlog

* User Stories
  + 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)
  + 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)
  + As a student, I want to practice answering true-or-false questions created from my flashcards, so that I can study in an active way.
  + As a student studying with friends, I want to export my set so my friends can import and own a copy of my set.
  + 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
  + 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
  + As a student, I want to study using the cards like normal flashcards.
  + As a student, I want to star specific flashcards for further review.
* Bug Fixes:
  + Fix performance issues on CreateSetPage once number of cards goes over 100
  + Make LLM-generated answers more consistently correct or wrong when they should be correct or wrong
  + Add a character limit to input fields