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Frederick Amal Emerson's Project Portfolio Page

Project: Flashbang

Flashbang - is a desktop application for creating flashcards and and learning in an effective way. The user interacts with it using a CLI with predefied set of commands. It is written in Java, and has about 1000LoC.

Summary of Contributions

Given below are my contributions to the project.

- ## Features

- Added ability to load and save flashcards to the user's system
- Added Edit command so users can edit saved flashcards and provided various flexibility options to make the process smoother
- Added Help Command for easy viewing of available Commands
- Set up basic types Class,FlashCardSet,FlashCard

- ## Enhancement

- Developed the core command for the Flashbang session (#189) and (#190), enabling users to engage in a flashcard-based Q&A session with options to reveal answers upon request. Enhanced the command with a timer component to allow users to track the time spent on each flashcard and the entire flashcard set.
- Added UI fixes :
- ◦ Added Code Indication Pointer so users are aware of the typing zone to refine user input handling
- ◦ Removed the repetitive spam of available commands for every invalid command with a simple direction to
- ◦ Refactored the Card's ToString component so its more compact, informative and fits in with other command's invokation
- ◦ Conducted refactoring of the `Parser` class (#83) to streamline command parsing using regular expressions by mainly fixing regex expressions and logic issues
- ◦ Resolved issues and enhanced the `view` command (#194) and (#196) to ensure accurate display of flashcards.

User Guide

- Wrote feature sections: `view`, `edit`, `search`
  - **Edit**: Detailed instructions on how users can edit flashcards.
  - **View**: Explained the process for viewing flashcards.
  - **search**: Provided a comprehensive guide on using the search feature.

Developer Guide

- Wrote 'Storage component' section:
  - Explained the role and functionality of the storage in loading and storing flashcards.
- Made Storage Class Diagram:
  - Created a visual representation of the storage class structure and the types of object involved.
- Made Storage Sequence Diagram:
  - Illustrated the sequence of operations involved in both writing and reading flashcards.

Testing

- Wrote testcases for ViewAll Command (#206)

Links

- **Code contributed:** link
- **PRs:** list of PRs from GitHub