Requirements for the Study Cards Application

# Background

The motivation for this application came from flash card applications such as Quizlet. While existing applications have many outstanding features they also have some major drawbacks. One such drawback is the limited way in which cards can be tagged and card sets can be filtered based on the tagging.

# Initial requirements

1. The basic unit is a two-sided study card. Each card is a front side and a back side on which text is printed
2. The app shall read the text of both sides of all cards from a text file
3. The app will show the front side of the card and upon user command will flip the card and show the text on the back side
4. The user will be able to move to the next card
5. The user will be able to move to the previous card
6. Once all the cards were shown, the command next shall display the 1st card
7. The cards shall be displayed in the original order, in an alphabetical order or in a random order depending on the user's request
8. The user shall be able to tag the cards.
9. The user shall be able to filter the shown cards based on the tags
10. There will be several types of tags.
11. The user shall be able to switch between the front and back sides

# New Requirements

## Saving Current Configuration

1. The application shall automatically save the last configuration. The configuration shall be saved into a JSON file
2. The configuration parameters shall be saved per study-set. Each study-set shall have a unique ID. The data-set name is editable.
3. The saved configuration shall include the card order, the cards front side, the filter and the last card shown.
4. When the user enters a study-set, the application will continue where the user left off.
5. If no configuration is found, default values shall be used.
6. The user will be able to go to the Configuration frame and select different values, or just ask to restart the study set.

## Support multiple data-sets

1. The data-set ID will determine the work file name
2. The name of the data set will be editable.
3. The user will be able to select the current study set from a list of sdudy sets
4. Each study set shall have a name and the number of cards
5. Once a study set was selected, the user will be able to go to the flash cards directly, skipping the configuration window.