

Sleepless Design Guidelines

Guideline Document Color

- #333333 text must be legible on each color
- Grey (#D9D9D9): Default, de-focused element
- Blue (#33EEFF): New, upcoming, next, discover, begin, ok
- Green (#99FF00): Correct, success, completeness, good
- Yellow (#FFFF00): Attention
- Orange (#FFCC00): Caution, warning
- Red (#FF3333): Error, incorrect, repeat, abort, bad

Typography

- Helvetica Neue, Arial, Helvetica, sans-serif
- These typefaces are standard on most computers and are considered to be typographically neutral
- They give off a sort of cold indifference, which should be utilized as a fresh, modern, and up-to-date academic vibe

Writing

- Academic, yet friendly, inviting
 - Proper grammar, capitalization

Home Page

Purpose

- To inform users about the purpose and goals of this application
 - Brief statement of what this application does
 - Should tie into showing the user that they can use it right away
- To invite users to search through available decks and study without registering
 - List popular public decks
 - Allow user to search public deck library
 - Load deck's launch page in a modal window

change URL using history
API to reflect the deck's
absolute URL

Search Page

Purpose

some tags should
automatically be
suggested when a user is
creating a deck

- To display decks from the public deck library that are similar either in title or tags to the user's search terms

Notes

- On search, the current page should fade out while search results slide in

Deck Launch Page

Purpose

- To display information about a deck
 - Title
 - Description
 - Author
 - Tags
 - Number of cards
 - Notify visitors that they may opt in to have their progress recorded (requires JavaScript)
- Links to view all cards/author profile
- To begin studying cards within the deck
 - Options for studying
 - Study all cards in deck or only a few
 - Set a time limit to study for, or study indefinitely
 - Randomize order or use order of deck
 - Use reverse sides or not
 - Option to continue from where they left off (requires JavaScript)

should be a spinbox

should be a checkbox

I would need to adjust progress based on cards added or removed from a deck. Store deck change logs that can be queried by the client to keep up with changes.

Notes

- Record a visitor's progress for each deck they've studied
- Make progress recording an opt-in for visitors (this way we can educate visitors on how data will be tied to their browser)
- Tracking a visitor's deck usage could be beneficial so that, when signing up, the decks they've studied along with their progress are added to their account

Technical Notes

- To record progress in randomized decks, we must store a seed for the visitor and use that to restore the random order for the deck
- Strings of binary digits should be stored to determine which cards in a deck a visitor has studied
 - Store a timestamp for the last time a user studied a deck. That way, we can keep track of when cards were added/removed from the deck and modify this string of binary appropriately
 - Store the number of cards the user wants to study in a session as well
 - Store all other deck options
 - Reverse cards appear after all normal cards: I must keep track of which reverse cards have been studied in a separate data bank

JavaScript must be used to pass local storage data to the server.

Card Listing Page

Purpose

- To list all cards in a deck
- Things to display:
 - Order in deck
 - Front
 - Back
 - Additional Information

Notes

- This page will be extended later to allow for editing cards

User Profile Page

Purpose

- To identify and allow users to learn more about the people who have published decks on Sleepless

Notes

- Because this demo does not include user accounts, this page should merely display a heading such as “Sleepless’s Profile”

Study Page

Purpose

- To show one side of a card from a deck and then reveal the other side

Question Screen

- Shows the data for that side of the card
- Button to show answer
- Time taken
- Cards left, number of repeat cards

Answer Screen

- Correct answer (other side of card)
- Time taken to answer
- Repeat/Next buttons
 - Store dates in 2 bytes with bit-shifting and or operators
 - 4 bits for month, 5 bits for day, 7 bits per year (offset by 2012)
 - Store a delay factor to determine how many days to delay a card by after studying it

Completion Screen

- Study completion message
- Cards for tomorrow
- Time taken
- Return to deck
- Return to home page

Notes

- Should support keyboard navigation
- Search should only be visible on the completion screen, it is unnecessary while studying
- Randomize the completion screen title
- Users should be able to undo actions by swiping right or pressing z

Warnings

- The specified storage method for card repeat dates will not work 128 years after the offset year

Guest Data Storage

Per Deck

- Last studied timestamp
- Options:
 - Cards to study per session
 - Whether to use a time limit
 - The time limit to use
 - Whether to randomize
 - Randomizer seed
 - Whether to include reversed cards
- Cards:
 - Whether this card has been studied before
 - Whether the reverse side of this card has been studied before
 - The next date to study this card
 - The card's delay factor