CIS472 Software Engineering
Project: Flashcards

The Senioritis Solution:

User Documentation

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User Stories

USER STORY ID	As a *<type of user>*	I want to *<perform some task>*	so that I can *<achieve some goal>*
1	Teacher	Create a way for my students to be able to review their vocabulary words when outside of the classroom	Ensure that my students are able to complete my course successfully
2	High School Student	Study concepts that I learned in class in a more kinetic way than reading over my notes	Perform well in my class since exams are coming up
3	Parent of Student	Help my child study by quizzing them on topics, but I do not have the time to go and learn them myself	Help my child do better in the subjects that they are struggling with
4	College Student	Order all of the vocabulary words in my notes to make them easier to study	Have a clear and concise plan of what to study so that I do not become overwhelmed
5	Tutor	Come up with a fun way to test my student's knowledge on previously learned topics	Ensure that my students are retaining the information that I teach them
6	ESOL	Become better at english by studying certain words and parts of speech	Be more comfortable in any and all settings
7	Parent of Child with Learning Disability	Aid in the process of teaching my child to speak/read	Make things easier for them in any way possible

Above is the table of user stories of characters that would want/need to interact with the application. These users range in age and desired use of the application. The main character that would be interacting with this platform would be the teachers and students. The students would want to make sure they are able to successfully study the category/topic they need to study. The teacher would want to ensure that the flashcards have enough information.

Stakeholders

Grade School Teachers

High School Teachers

Foreign Language/ASL Teachers

College Students

HS Students

Middle School Students

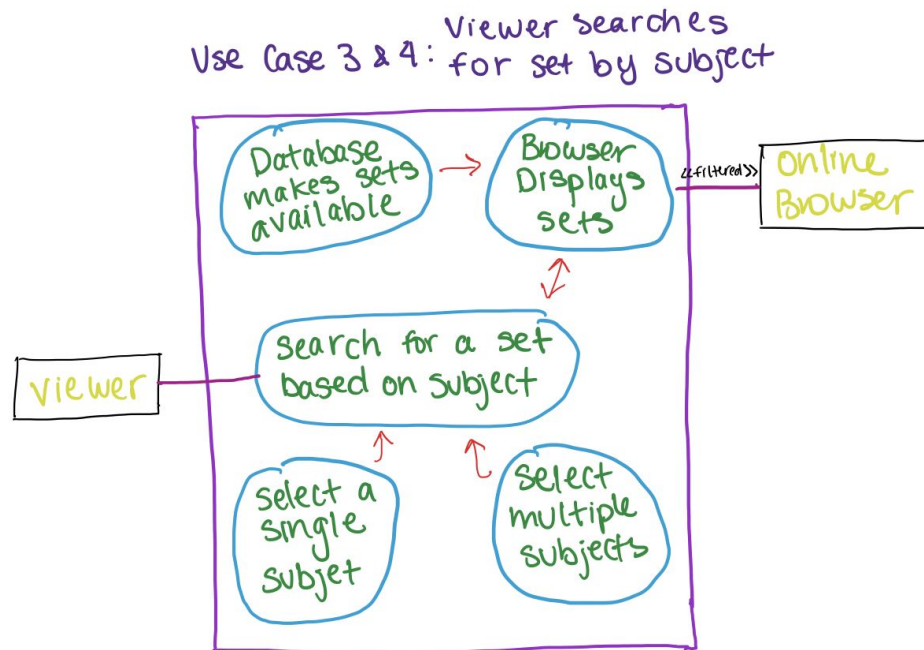Parents of students

Standardized Exam Tutors

Subject specific Tutors

Quizlet

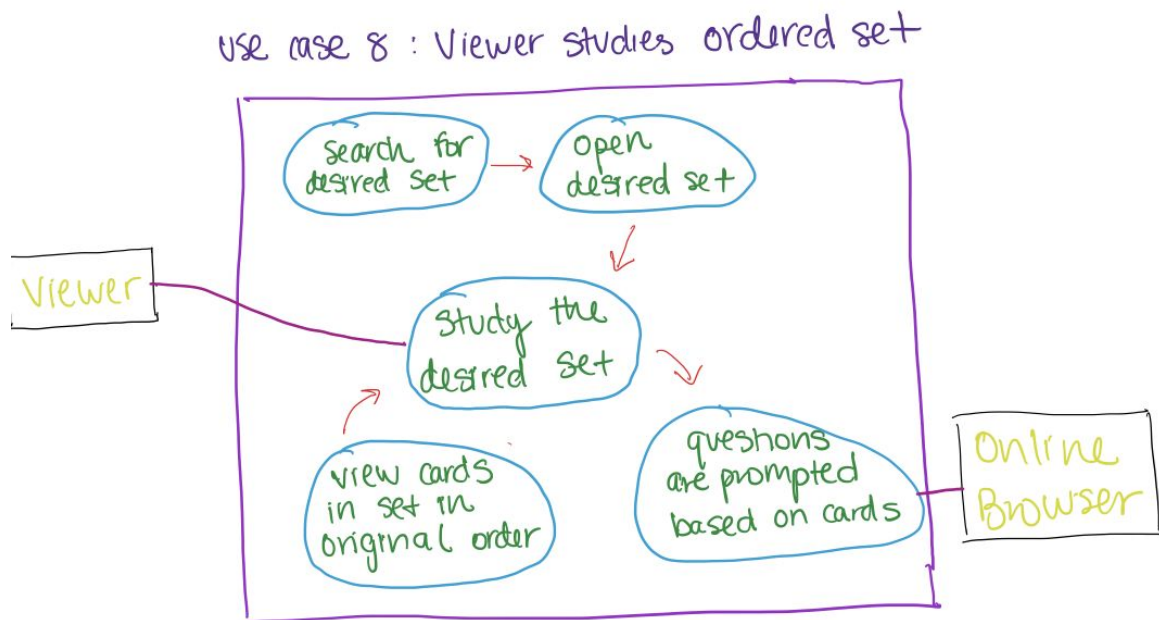Platforms such as Blackboard or Moodle

Sequence Diagrams

Sequence Diagram 1:

Use Case 3 & 4: Viewer searches for set by subject

- Database makes sets available
- Browser Displays sets
- «filtered» Online Browser
- Viewer
- Search for a set based on Subject
- Select a single Subjet
- Select multiple subjects

Shown above in the sequence diagram is the flow of Use Case-3 and Use Case-4. Within these cases the Viewer will have the ability to filter their search results when searching for a set of flashcards. The Viewer will have been navigated to a page where all available sets are displayed on the Browser. Then, the Viewer will have the ability to select either a single category , a subject, or multiple to then be populated by the Database to be displayed by the Browser.

Sequence Diagram 2:

use case 8 : Viewer studies ordered set

- search for desired set → open desired set
- Viewer
- Study the desired set
- view cards in set in original order
- questions are prompted based on cards
- Online Browser

Shown above in the sequence diagram is the flow of Use Case-8, within this case the Viewer has opened the desired set of flashcards to study and will be able to study in the order that it was created by the Author . The Browser will display the first card of the deck. The Viewer will then have the ability to flip forward and backward through the deck, each card has both a front and back. The Database will prompt the Viewer with questions based on the cards. The Viewer will also be able to submit their answer and find out if it was correct. All of this will be displayed by the Browser.
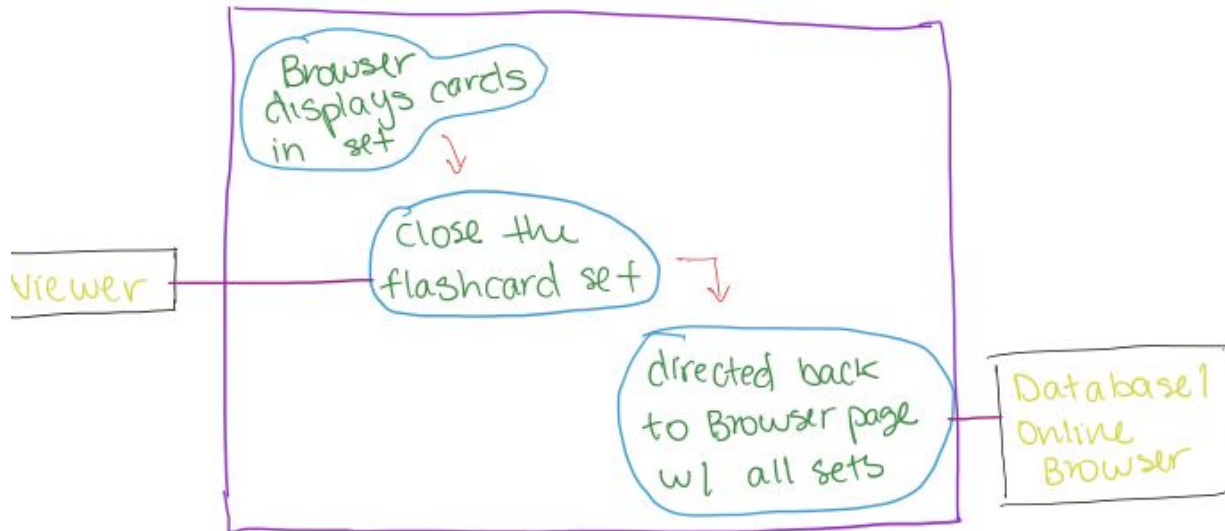
Sequence Diagram 3:

Use case 9: Viewer Studies shuffled set
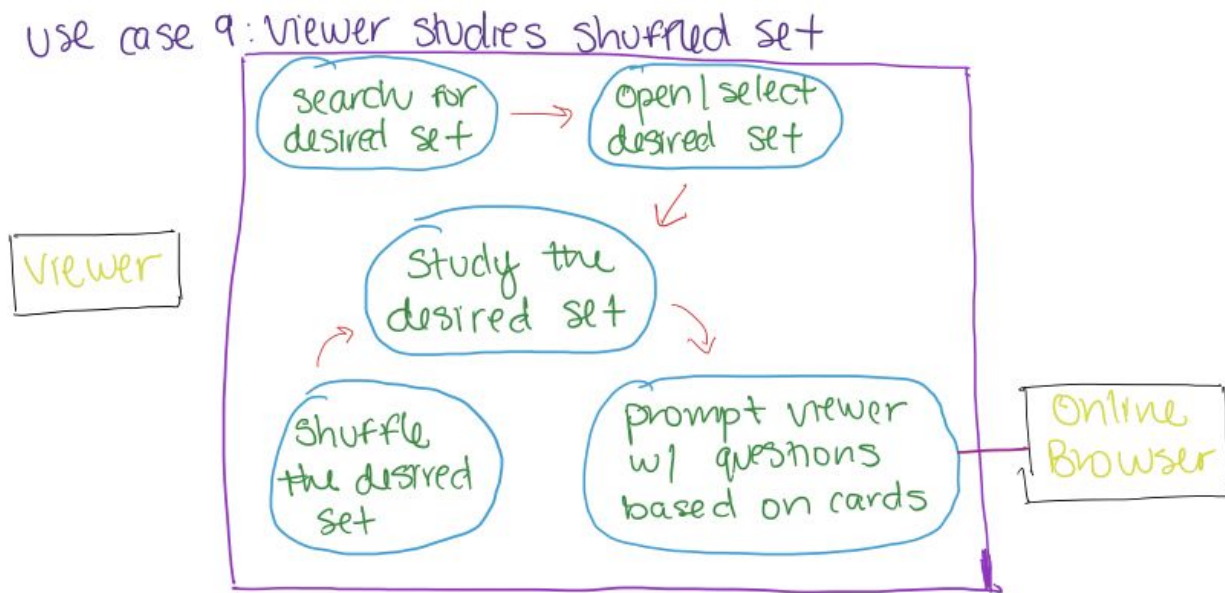
Shown above in the sequence diagram is the flow of Use Case-9, within this case the Viewer has opened the desired set and can study the set in a shuffled order. The Browser will display the first card of the deck. The Viewer will shuffle the deck and then have the ability to flip forward and backward through the deck, each card has both a front and back. The Database will prompt the Viewer with questions based on the cards. The Viewer will also be able to submit their answer and find out if it was correct. All of this will be displayed by the Browser.

Sequence Diagram 4:

Use case 10: close the desired set

Browser displays cards in set

Close the flashcard set

directed back to Browser page w/ all sets

Viewer

Database 1 Online Browser

Shown above is the sequence diagram is the flow of Use Case-10, within the case the Viewer is closing the currently open set of flashcards. The Viewer has finished viewing the set and will close it. Which will cause the Database to redirect the Browser back to displaying all available sets. The Viewer will then have the ability to select a new set of cards or select a category, subject, of cards.

Application Runthrough

While there are different stakeholders, the application is currently only modified for the same type of usage for each character. Therefore, each character will follow the same runthrough.
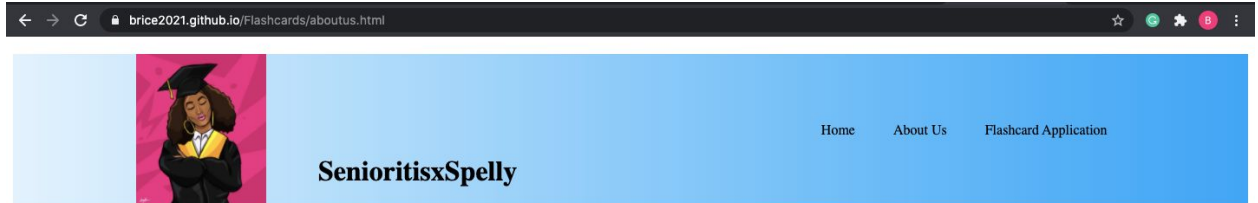
1. **Website Homepage**

   First you will encounter the website homepage. From here, you can see the team members, the purpose of the platform and the functionalities. At the top, you can see the navigation links which include the About Us page and the Flashcard Application.
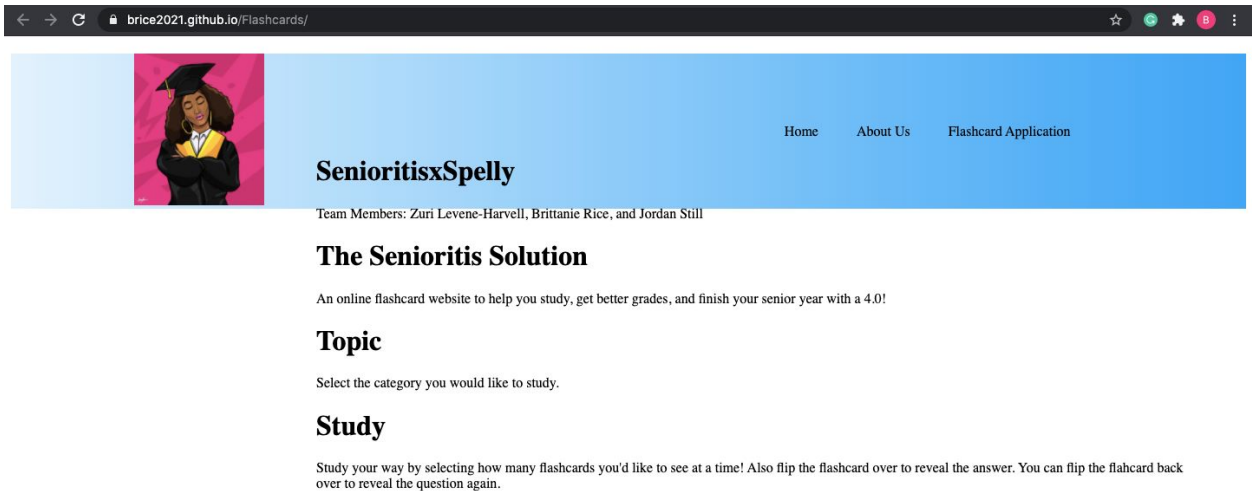
2. Website About Us Page

On the About Us page, you will see a headshot and a biography for each of the team members. The navigation links are still at the top. The Home link will take you to the Home page, and the Flashcard Application link will take you to the Flashcard functionality.

Zuri Levene-Harvell

Zuri is a graduating senior computer science major at Spelman College. She participated at Alluma - Code2040 Fellowship from June - August 2020 where she was aPublic Technology Analyst Fellow. She conducted usability testing for an application, OxC, with human centered design focus. She worked on a front-end REACT project migrating simplified HTML controls to create a centralized library for style elements.

Brittanie Rice

Brittanie is a graduating senior computer science major, Spanish minor at Spelman College. She completed an internship in Summer 2019 with Under Armour on the Retail IT Team. She completed an internship this past summer with Dell Technologies as a Sales Engineering Intern. She will begin her full time position with Dell as a Product Technologist Engineer Feb. 2021.

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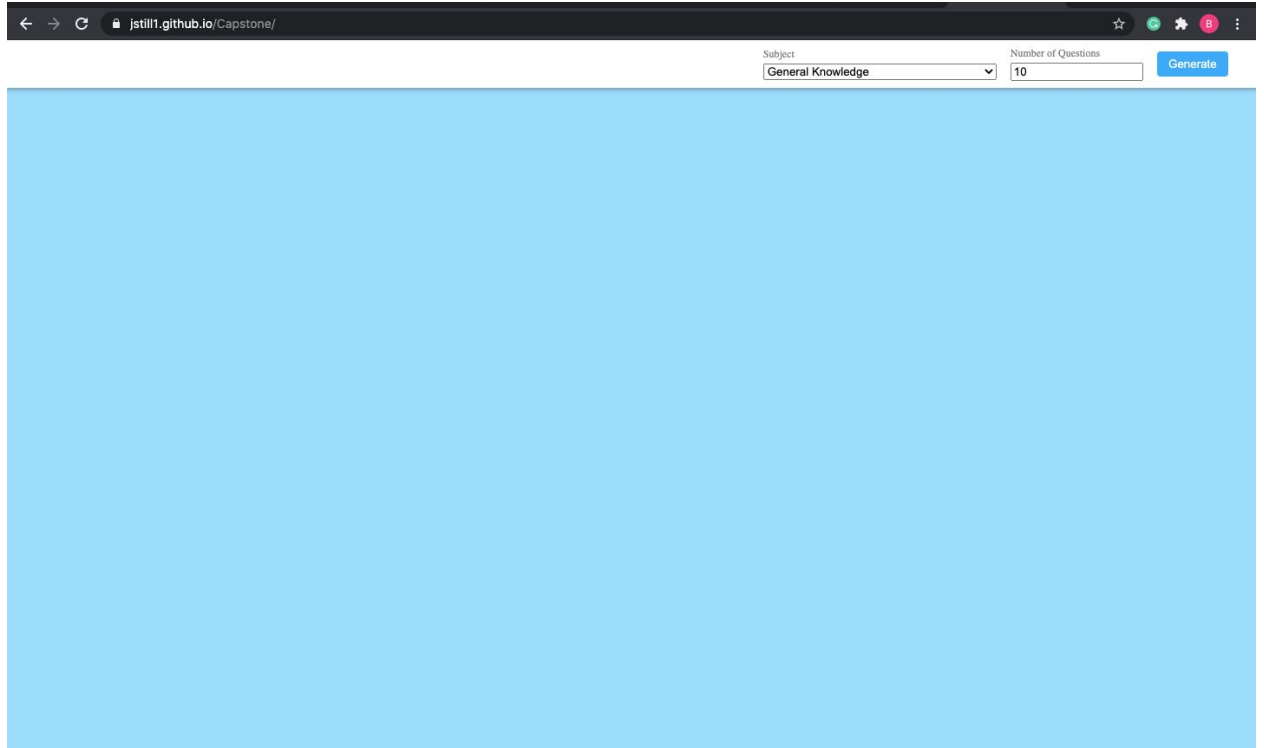
Jordan Still

Jordan is a graduating senior computer science major at Spelman College. She was a Software Engineer Intern for Microsoft from May 2020- August 2020 where she experienced working in both frontend and backend languages as well as dealing with large amounts of data (REACT, Javascript, css, Python, Java, Azure)
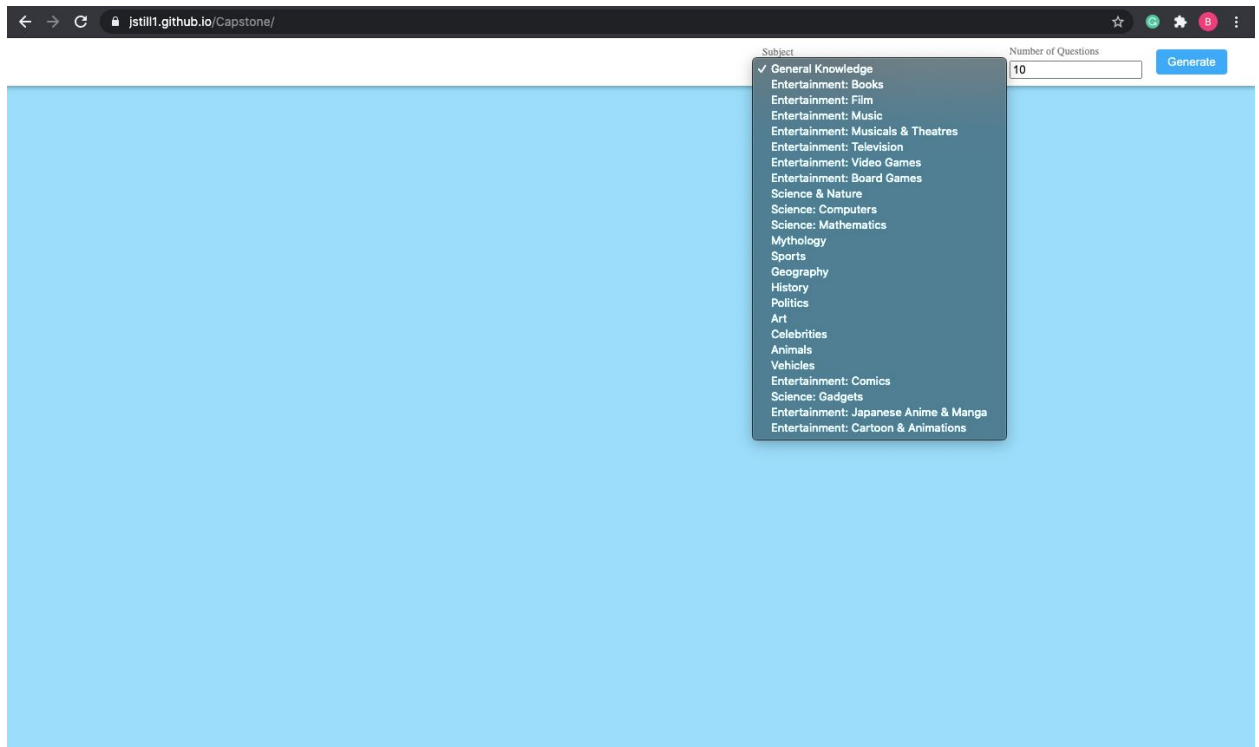
3. **Flashcard Application**
   Shown below is the page the user will encounter after clicking the Flashcard
   Application link. From here, you can see the subject drop down menu, the number of
   questions box, and the generate button.

4. **Flashcard Application - Select a Subject**

    Shown below, when you click the drop down menu for subject, you will see each of the
    subjects available. From there, you can select the subject you would like to see the
    flashcards for. You can also enter the number of flashcards you would like displayed, or
    use the up/down arrows to the left inside the Number of Questions box, then click
    Generate.

5. **Flashcard Application - Flip the flashcard**

   After clicking Generate, the flashcards will appear on the screen. By clicking on the flashcard, you can reveal the correct answer to the question shown before. This can be seen in the top row, farthest right flashcard which now displays the answer "Octagon".
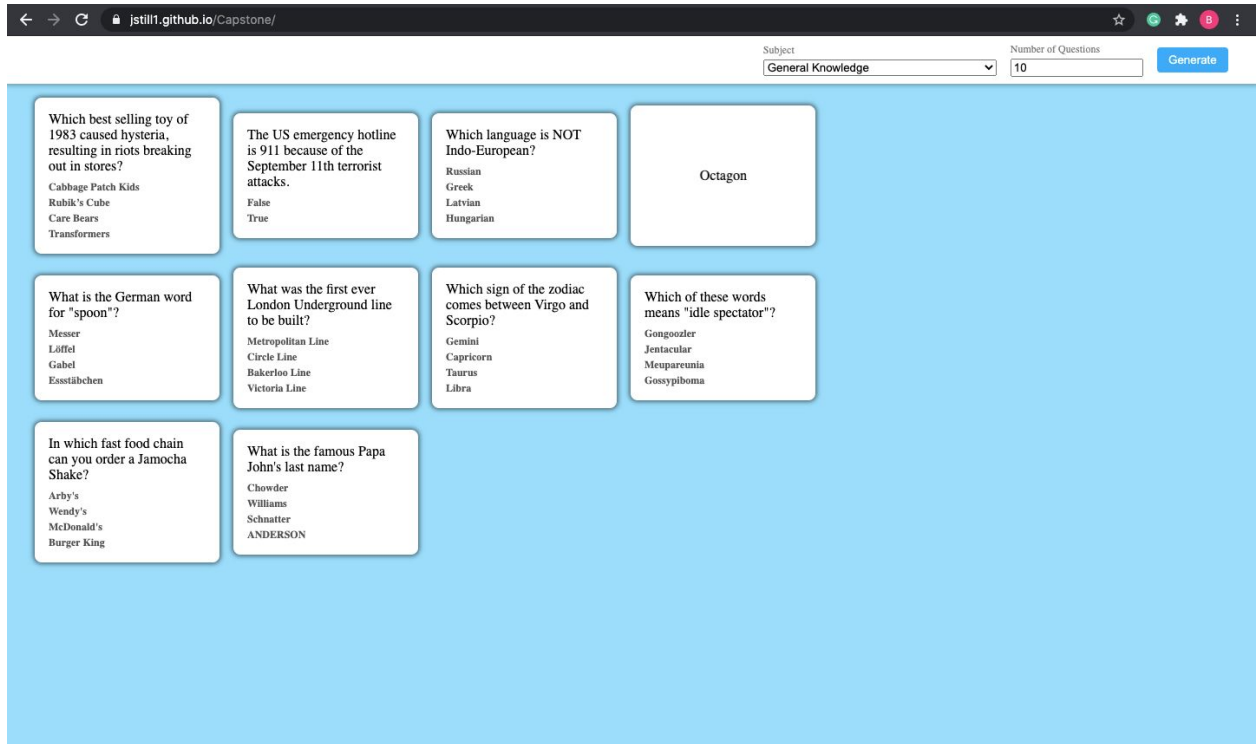
System Requirements

The website is optimized for any browser, but is most friendly on Google chrome, because that is with what it was created/tested on. While it is not intended to be used on mobile devices, the flashcard application itself is friendly on mobile. There is no need to download any additional software.