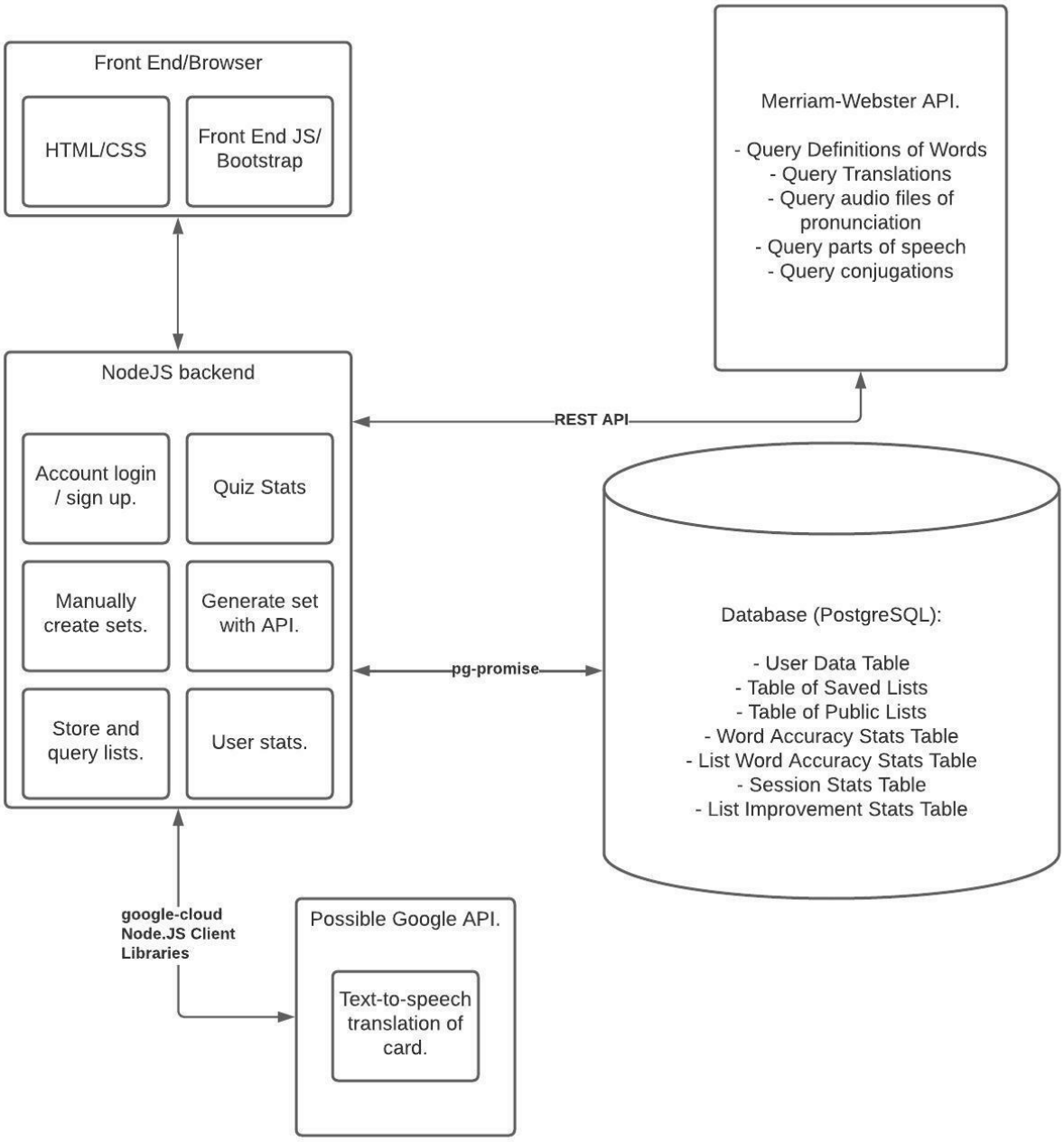
Milestone 4
Team number: 016-04
Project Features List:

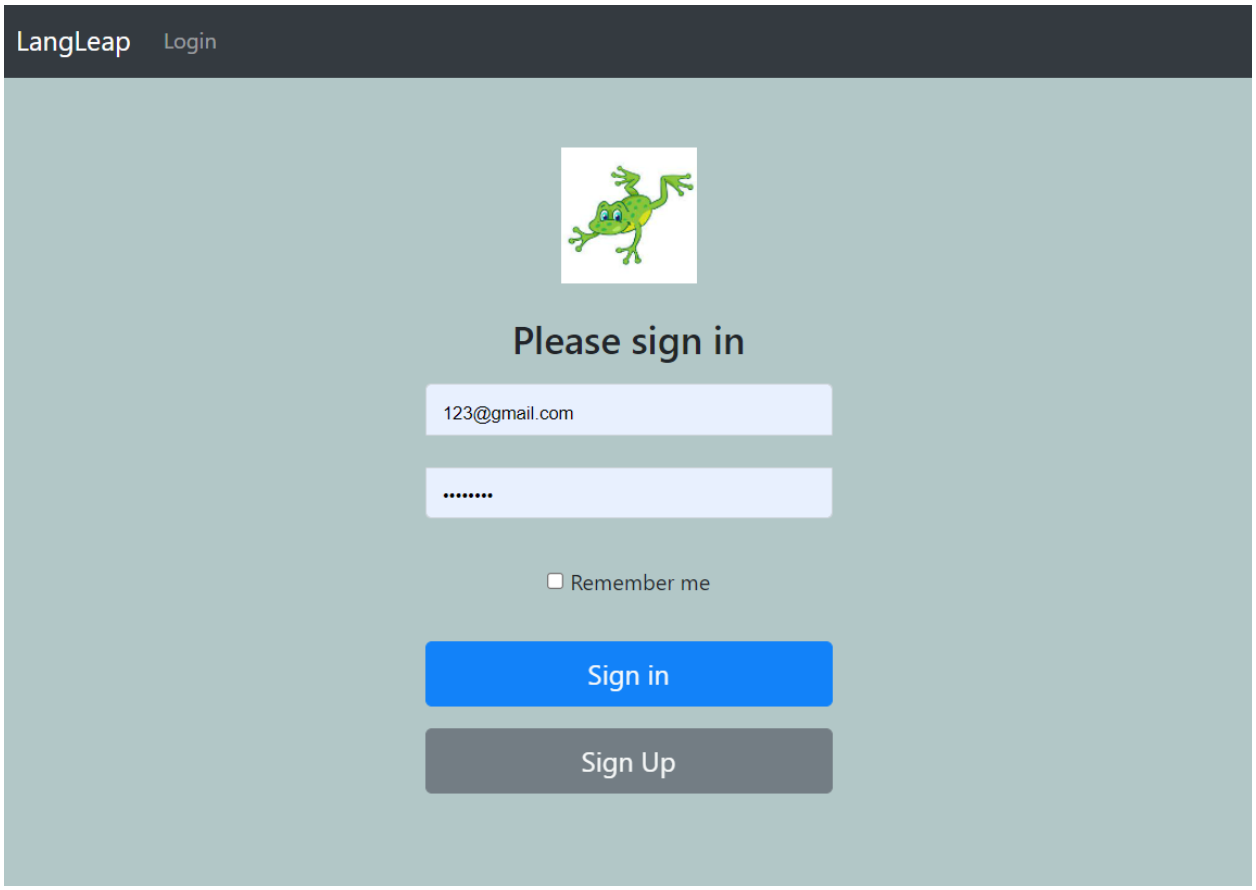
1. Log in and Sign up **Completed**
    a. New user can create an account **Completed**
    b. Existing user can log in **Completed**
2. User can create decks (words stored in lists)
    a. Add words to new lists **Top priority**
    b. Add words to existing list
    c. types of lists:
        i. Direct translation
        ii. Definition
        iii. Common sentences (Grammar)
    d. Method to add
        i. Pdf
        ii. Direct text input
3. Quizzes **Using stats from quizzes, need before making stats**
    a. Word shows up, type translation. If partially correct, another attempt is granted.
    b. Bias to show words that the user is struggling with more frequently
4. Quiz Hub Page
    a. Place to show all quizzes best score, last attempt and if you want to quiz yourself directly from one page
5. Can view personal profiles with stats.
    a. login/logout
    b. Save created lists to profile.
    c. Missed words, overall accuracy, and other data stored with the user.
6. Study mode
    a. User will get feedback when practicing
    b. Randomly pick out flashcards from sets individually
    c. Ordering algorithm to generate commonly missed words more often.

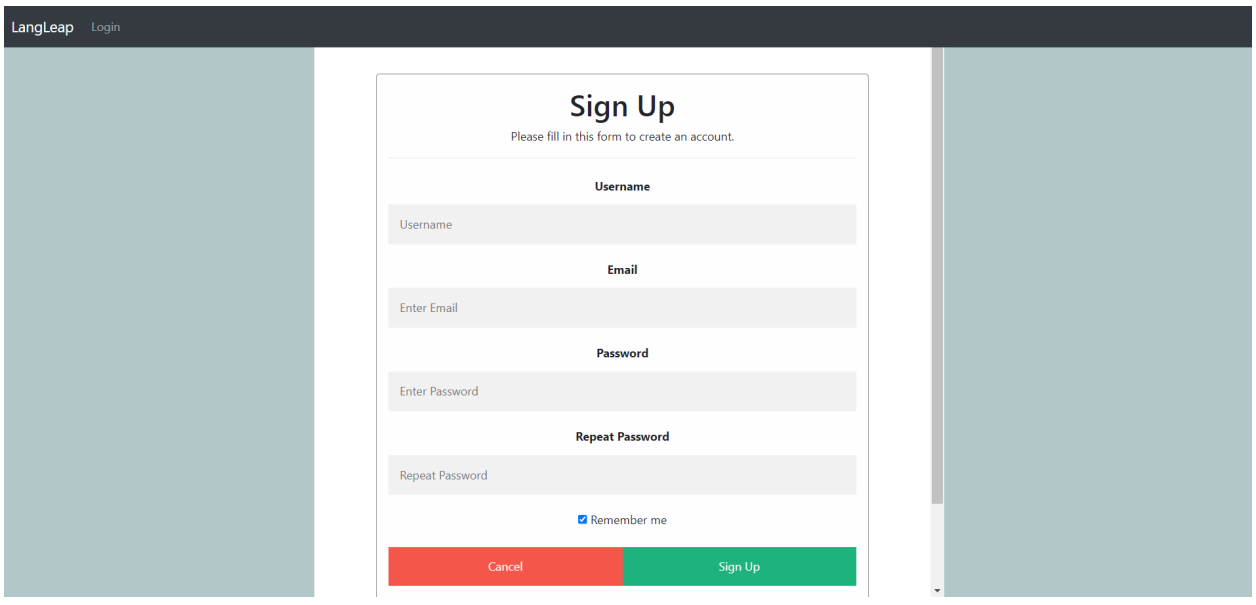
Architecture Diagram



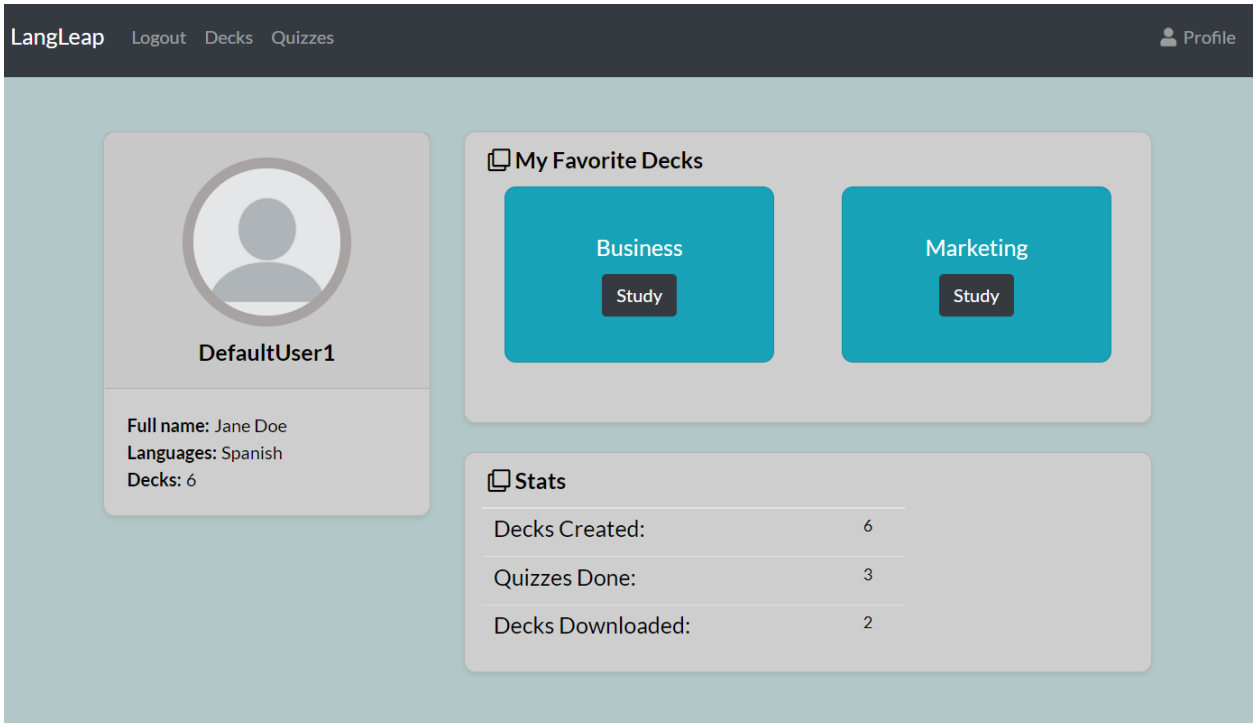
Front End design

Sign in

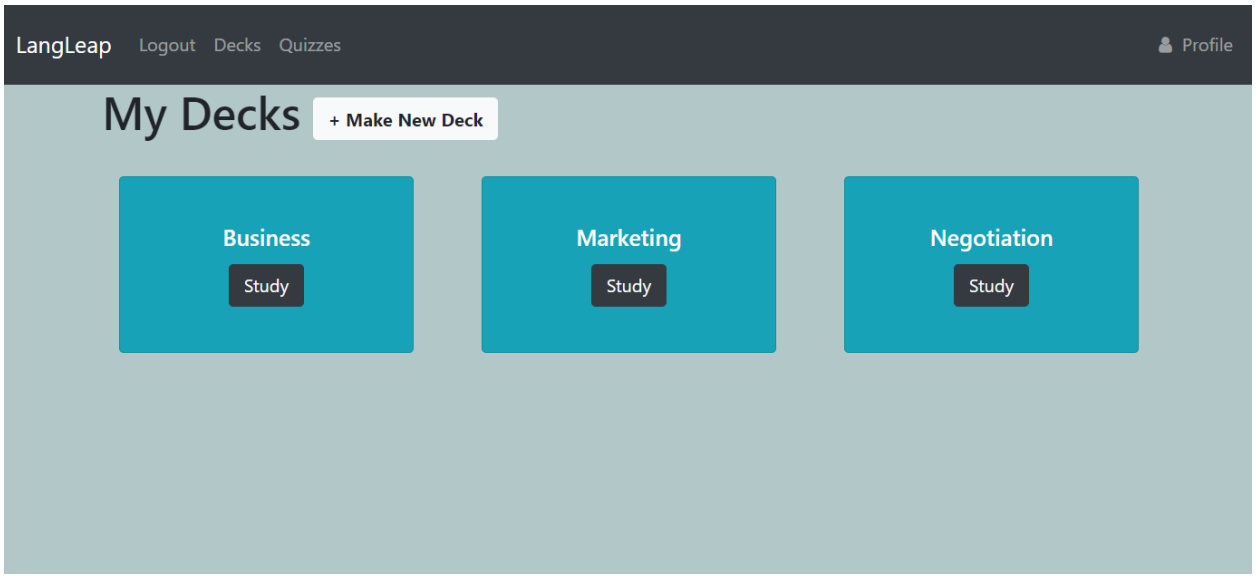




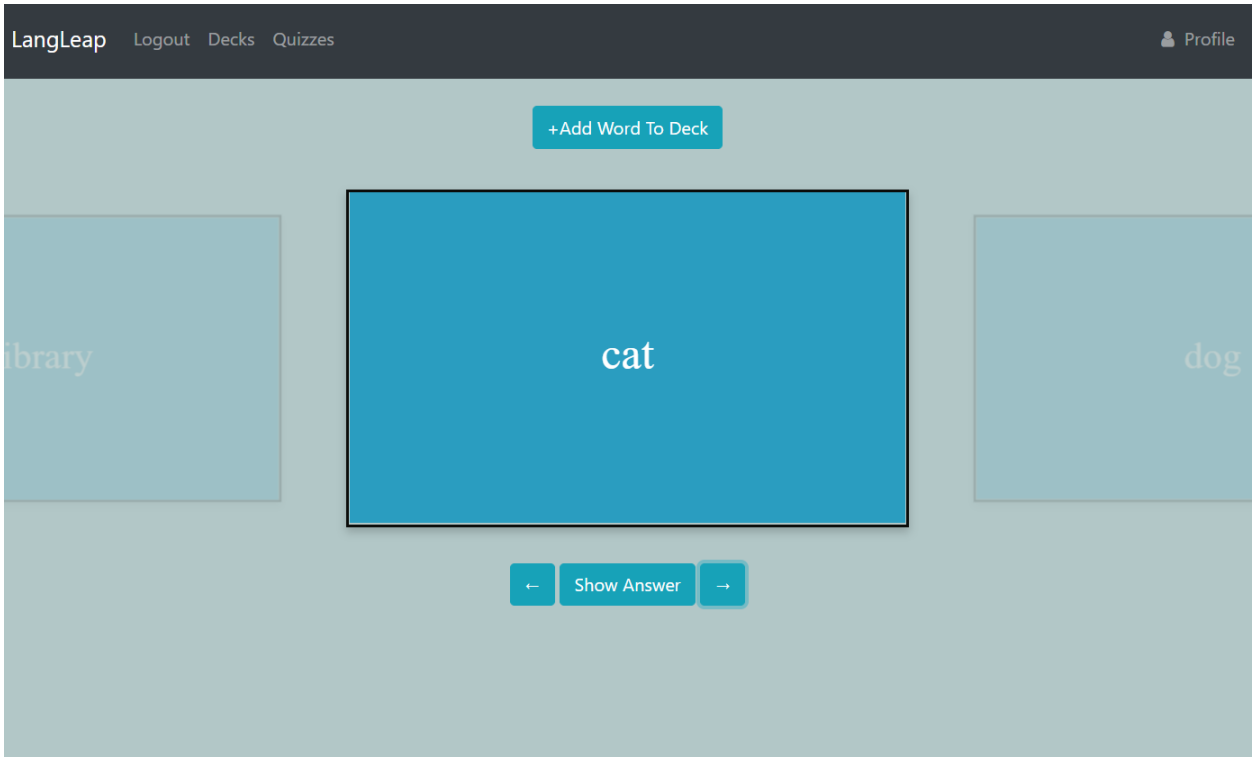
User Profile



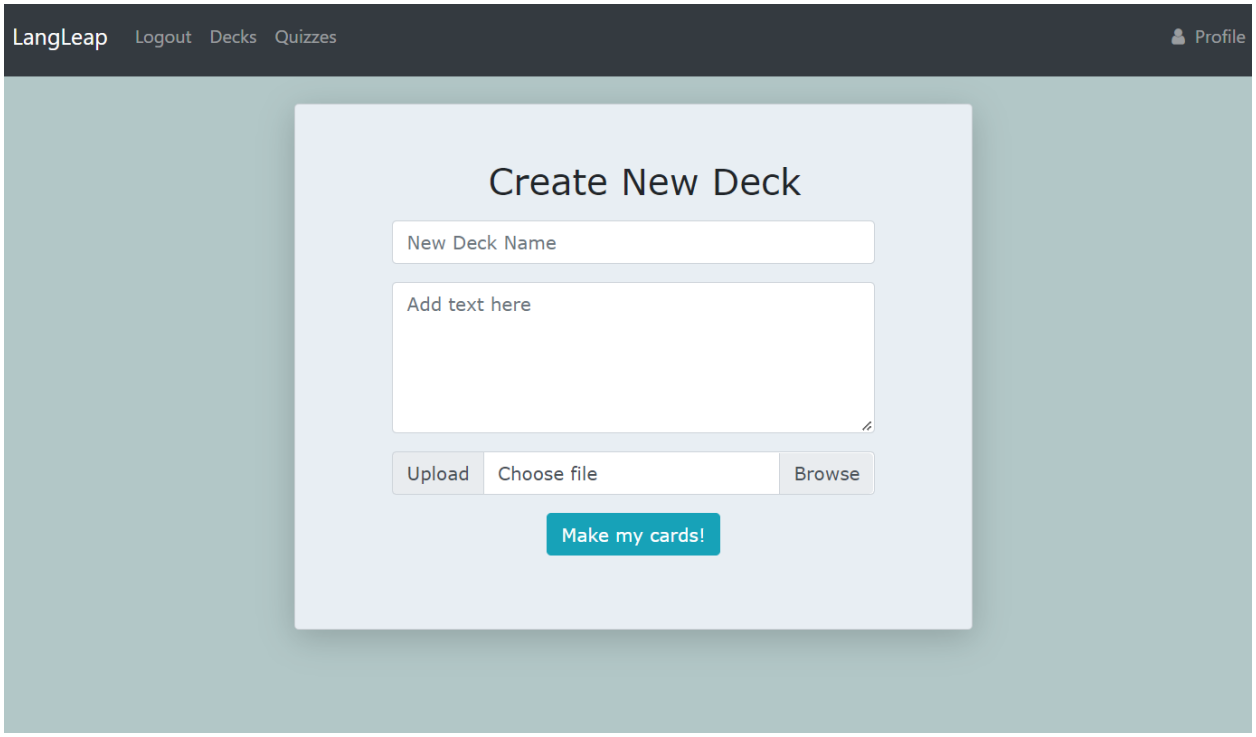
Decks Page (show all of the users saved decks)



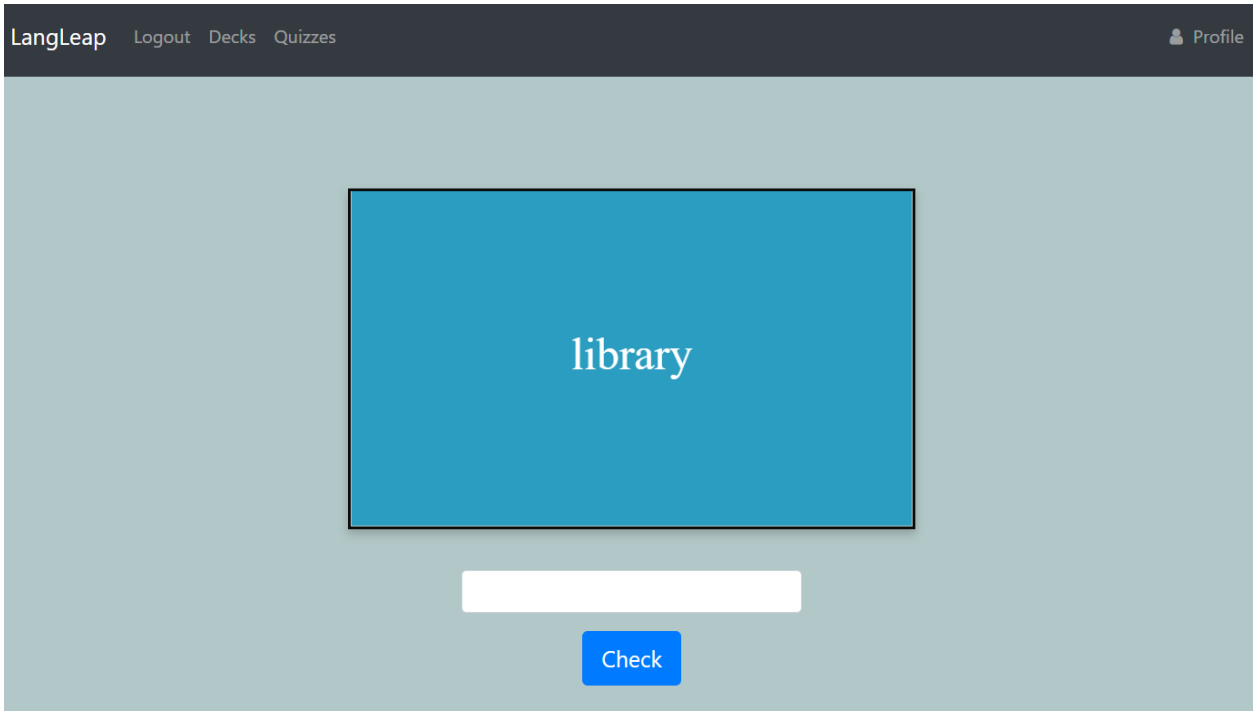
Flash card page



Make new deck/page



Quizzes



Web Service Design

- We're using the Merriam Webster English-Spanish Dictionary API to fill our word database, storing the words in English, followed by their Spanish counterpart with an example of the word used in a sentence.

Database design

- PostgreSQL
- https://docs.google.com/spreadsheets/d/1LQTlqJx2UPMoN3m5hObVZDKcznqhLSBE9WPHBK9EkqU/edit?usp=sharing

Challenges

1. Getting data from the Webster API and making that usable from the Node layer
    a. The backup plan is to manually translate enough words to populate sample decks to show the functionality of the rest of the project.
    b. If needed there are other dictionary APIs we can use.
2. The file parser to generate decks from input files is daunting.
    a. Backup is to downscope and make it so users must copy and paste text into the form to generate a list to avoid file parsing.
3. Managing stats is a challenge at this point, it relies on having working lists before we can start practicing measuring stats which is a risk. Also, we need to figure out when to post the stats: after each word in a quiz, at the end of the quiz, or some other point in time.

a. If needed we can simplify the stats we track down to overall deck scores and not per-word tracking.
b. We can use sample decks to begin testing.

Individual Contributions

- This deliverable includes a couple of lines about each team member's contribution towards the project.
- Include a link to the latest commit made by each team member on the GitHub repository.
- Share a screenshot of the project management board being maintained for this project indicating the status of the tasks at hand. If you aren't using a project management board, share anything you feel is pertinent to show us that your team is maintaining some sort of structure/organization.
- This section also counts for your participation in weekly meetings with your TAs. Absences or lack of progress shown on project will reflect negatively on your score for the milestone.

Our team has preferred not to use a JIRA board for this project and rather use our project plan as a live document, updating the task column on the left to green when complete or yellow for in progress. The assignees column features sets of our initials so we know who is responsible for a given task.

			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
			Feb	Feb	Feb	Feb	Mar	Mar	Mar	Mar	Apr	Apr	Apr	Apr	May	May	
Task	Feature	Assignee	7	14	21	28	7	14	21	28	4	11	18	25	2	9	Notes
Database & FE foundation	User Accounts	MR, JR															
Fully implement ^^	User Accounts	MR, JR															
User/Password Hashing	User Accounts	JR, BH															
Login Screen/and new user	User Accounts	BH, HM, AD															
Flashcard UX	Make/study Lists	AD, HM															
Create Lists	Make/study Lists	JR, BH															Most other tasks depend on this
Request and study lists	Make/study Lists	MP, MR															Most other tasks depend on this
Randomize Words	Make/study Lists	MP, HM															Standalone task
Apply spaced repetition	Make/study Lists	BH, JR															Standalone task
Pull up list & Quiz	Quiz																Most other quiz tasks depend on this
Correctness Calculation	Quiz	MP, MR															
Word Targeting	Quiz	BH, MR															Standalone task
Progress Logging	Quiz	MR, JR, HM															
Statistic Storing	Stats	JR, MP, AD															All stats activities depend on this
Stat Report UX	Stats	AD, HM															
Stat Report Functionality	Stats																
List sharing	Share	BH, AD, MR															Standalone task
List Generation	Make/study Lists	BH, JR															Standalone task

https://docs.google.com/spreadsheets/d/1DOoQuMnbfUAef5bVedy85C4EgUgjobP3xUHeiFSibBw/edit?usp=sharing

Beckett:

- Created Node.JS & Postgre docker container system
- Pulled all node packages into docker
- Ported all html/css files to ejs pages and partials

- Wrote initial server.js code to get ejs pages
- Implemented login system w/ Joe
- Implemented signup system w/ Joe
- Implemented hash system w/ Joe
- Changed sql database layout to account for bcrypt hashing format

Heather:

- Build decks page
- Build cards page (not animation)
- Built new decks page
- Made/updated navbar for all pages
- Worked on general front end styling
- Worked on milestones with the team
- https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-016-04/commit/a45f4e8940288d1cdd53a6d655e8c6a2f06a94b9

Max:

- Created js functions and animations for flashcard interface
- Created js functions and animations for quiz interface
- Wrote flashcard.css for flashcard and quiz ui
- Worked on milestones and took weekly meeting notes
- Ported quiz and flashcard pages to ejs: commit
- Started working on retrieving deck information from database: commit

Joseph:

- Worked on setting up Dockerfile and container to manage project's database.
- Created initial SQL and sample data files to load with container.
- Worked on sign-up and login functionality.
- Implemented hashing and salting system for login.
- Worked on a digital architecture diagram.
- Modified database layout design with data types and planned changes to database.
- Began working on get and post requests for creating saved lists from scratch.

Matthew:

- Helped Joe to set up the initial SQL and sample files
- Bug fixed the Dockerfile and container

Amanda:

- Build profile page
- Build login/signup page
- Helped update navbar on profile page
- Helped clean up pages (general front end)
- Started Quiz hub page, working on/brainstorming ideas for new page

    - Figuring out how to pull stats for quiz hub page
- https://github.com/cub-csci-3308-spring-2022/csci-3308-spring22-016-04/commit/9fa65627bb1a147d96f055fc1531b3401cc6f1c0

Notes and attendance at weekly TA meetings here: Weekly TA Meeting Log