## Author

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I am pursuing a Bachelor's in Pharmacy alongside this degree.
I hope to help leverage technology in healthcare.
I enjoy dancing, yoga and reading.

## Description

In the capstone project we were asked to build a flashcard application that will act as a memory aid when students are trying to learn a new language or memorise a formula. I was very excited to do this project because this solves a pain point I have faced a lot.
The primary areas to be addressed here were login, dashboard , deck management and review.

## Technologies used

Flask- micro web framework written in Python, helps us render html templates and manages the controllers. Fun fact: LinkedIn and Pinterest use the flask framework!
flask-sqlalchemy

## DB Schema Design

<< Add structure of your DB, columns and details about the column, Also constraints>>
<<Reasons behind designing the way it's done>>

| | | |
|---|---|---|
| card | | CREATE TABLE "card" ( "c_id" IN |
| c_id | INTEGER | "c_id" INTEGER NOT NULL |
| c_d_id | INTEGER | "c_d_id" INTEGER NOT NULL |
| question | TEXT | "question" TEXT NOT NULL |
| answer | TEXT | "answer" TEXT NOT NULL |
| score | INTEGER | "score" INTEGER NOT NULL |
| deck | | CREATE TABLE "deck" ( "d_id" IN |
| d_id | INTEGER | "d_id" INTEGER NOT NULL |
| deck_topic | TEXT | "deck_topic" TEXT NOT NULL |
| d_username | TEXT | "d_username" TEXT NOT NULL |
| last_reviewed | TEXT | "last_reviewed" TEXT |
| d_score | INTEGER | "d_score" INTEGER |
| sqlite_sequence | | CREATE TABLE sqlite_sequence( |
| user | | CREATE TABLE "user" ( "usernan |
| username | TEXT | "username" TEXT NOT NULL |
| password | TEXT | "password" TEXT NOT NULL |

User table -

- Primary key- username
- Foreign key- None

Deck table -

- Primary key- d_id
- Foreign key- d_username relates to the user table

Card table -

- Primary key- c_id
- Foreign key- c_d_id relates to the deck table

## API Design

Have created an API only for the cards model. Which allows us to GET/POST/DELETE/PUT cards.

## Architecture and Features

The project is hosted on the main app.py file. The html templates used are in a folder called templates and we have another subfile called static, static has images and a folder called “files “ for the csv files uploaded by the user (during deck import)
Have also added a readme file for better understanding and use by others

Features implemented

- Login/Signup with password check (frontend + backend validation)
- Dashboard -CRUD operation on deck (last reviewed, cumulative score for deck)
- Review - each card is shown 1 by one and card scores are updated based on user response
- Editing Deck contents- CRUD operations for cards

Additional Feature

- Import of decks from csv files

## Video

Project Presentation Video
https://drive.google.com/file/d/1wQCzQovLUlOKwoye1srOPO3Qhnn9TOFC/view?usp=sharing