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Hello,My name Sameer . I am from Rewa(M.P.) . Currently I am persuing M.Sc(Mathematics) from Institute For Excellence In Higher Education,Bhopal along with B.Sc. in programming and data science from IIT Madras . My hobbies include playing Volleyball and listening to music.

Description

We have to create an app using flask which is like a game where user can create decks and cards for each deck of his choice . Then front side of cards are shown randomly and he/she needs to guess the correct answer and then on flipping the card the back side of card is shown .

Technologies used

1.flask module :

a) Flask class: For creating routes using its object .

b)render_template class: To render templates

c)request: To receive values from form sent through post request.

d)redirect: It redirect to to a specific url.

e)url_for: To create a URL for a function dynamically

f)flash: To generate informative messages in the flask .

2.flask-login module : For user authentication

3.datetime module : For getting last reviewed date and time of decks and cards .

4.random module: For showing random cards to user.

DB Schema Design

1.User table – Created for users authentication

Columns	constraints
Id	integer , primary key , auto increment
Name	string , unique , not null
Password	string , unique , not ull
Date_created	string

2.Deck table – For storing deck information

Columns	constraints
Id	integer , primary key , auto increment
Deck_Name	string , unique , not null
Score	integer
review_time	string
user_id	foreign key

3. Card table – For storing card information

Columns	constraints
Id	integer , primary key , auto increment
Front	string , unique , not null
back	string , unique , not null
Score	integer
review_time	string
deck_id	foreign key

Also created a one to many relationship between 1) user and deck 2) deck and card tables .

Architecture and Features

Whole code is written inside app.py file . Templates are kept inside a folder named templates and css files and images are kept inside a folder named static . And there is a database file name database .
1. Users Authentication : Uses flask-login for Users authentication .
2. Flask-sqlalchemy – for database management
3. Random – Uses random library for fetching random cards from database .

Video

Link : https://drive.google.com/file/d/1yE4g3IZUf5qfNu5aowIMAICb7I9Dc94c/view?usp=sharing