PROJECT REPORT

Author:

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Bio: An enthusiastic learner hoping to make it in the software industry.

Description:

In this project, we are supposed to create a flashcard app to help the users in learning. The users should be able to create their own decks as well as keep track of how well they remember those decks.

Technologies Used:

SQLite: Database for storing user information.

Flask Extensions:

• Flask-Bcrypt: Provides hashing to secure user data.

• Flask-Bootstrap: Used for styling.

• Flask-Login: Setting up a user login system.

• Flask-SQLAlchemy: Used to interact with the database.

• Flask-WTF: Used for form validation.

• WTForms: Used for creating forms

• Jinja2: Used for HTML formatting.

Bootstrap: Frontend development

DB Schema Design:

User Schema:

Id - Integer, Primary key

Username - String, unique, not null

Email_address - String, unique, not null

Password_hash - String, not null

Decks - Relationship with Deck Table

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Deck Schema:
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Id - Integer, Primary key

Name - String, not null

Timestamp - Datetime

User_id - Integer, Foreign key

Flashcards - Relationship with Flashcard Table

Flashcard Schema:

Id - Integer, Primary key

Question - String, not null

Question html - Text

Answer - String, not null

Answer html - Text

Deck id - Integer, Foreign Key

Right_answered - Boolean

Wrong_answered - Boolean

Architecture and Features:

The project is organised as follows:

Card_app -

Templates - Stores all the HTML templates.

Static - Stores the styling and javascript

Forms.py - Handles the forms

Models.py - Handles the database schema in the form of classes.

Routes.py - Handles all the controllers

init .py - Handles importing the different modules

Main.py - Runs the application.

There is a proper login system with validation for the email and password.

Users would be able to create, delete and update their flashcards as well as keep track of how well they are performing on their respective decks.

<u>Video:</u>

https://drive.google.com/file/d/1BjYR_zFQjjM7-RMHPno3DuNuKFoYvOa7/view?usp=sharing