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Description

We had to create a flashcard web app in which we can create flash cards and store in the separate decks according to the topic of card

Technologies used

 Technologies used were flask,html,css,bootstrap ,flask extensions like sql alchemy,login-manager were used

Flask was recommended ,while bootstraps helps in making the website more beautiful

DB Schema Design

Two databases were created ,one for storing flashcards,other for storing user details.User database had attributes like id,firstname,lastname,email address,password.everything was set to nullable=false so that user have to enter the fields or he won't be able to register and login,id of card and user were set primary key

since username is used for login ,so it has to be unique so it was set that it must be unique by setting unique=True,and the id were set primary key since we need to distinguish the rows

Architecture and Features

 All the css files are put in the static folder inside it a styles folder is created in which the css files are present and the html files are stored in the templates folder,there is one db file named mydb.db(for storing the databases) and app.py (in which all the code for databases and routes is written)

A image is inserted in the homepage to make the page more beautiful,there is register button on clicking on it the user can navigate to the register page or there is navbar created with the help of bootstrap from there also the user can go to register page by clicking on the register or if he has already registered he can go straight to login page by clicking on login,on register page he has to mention the details properly , then he will be redirected to login page and on the top he will see a message saying that the user has registered successfully which has been generated using flash message,then the user can login by entering the username

and password ,if he enters incorrect details ,he will stay on the login page and flash message saying invalid credentials will be displayed,on logging in he can more functionalities on navbar saying Add card,logout,and the current users name ,on clicking the logout the user will be logged out of the website and he would have to login in again for using the website,On clicking on the Add card ,the user can enter the question ,set the difficult of the question and enter the answer of the question and create on the post button ,then user will be redirected to home page and the card will be created and he can see the question,for seeing the answer user have to hover over the card,and the card will flip showing the answer.also you can update the card and in that you can also set the difficult level of the question and can change according to the time and delete the card also.

The homepage,navbar and buttons were created using css and bootstrap,the register and login forms were created using bootstrap,separated routes were created for html pages,using the request method in the functions created for different functionalities , the register and login page information was grabbed and then added and stored to database models of users and card, by using add and commit method.on each page the message was displayed using flash messages which was displayed in html using jinja template,for updating and deleting the pages id that is primary key of databases was used which was enter as a argument in the route,for updating the details of the card,bootstrap forms were used like register and login page and editing details in that form would change the card information,for using the authentication UserMixin class was used,so that we can check conditions that if user is authenticated or not .
 The card flip functionality was done using css and creating a new card was done using bootstrap form and grab that information using the request method and then store it in the database.cards were arranged using bootstrap grid utilities.

Video link:-

 https://drive.google.com/drive/folders/1o0mb8CHVN4puxO_rZ7DeYU-08led4oGU?usp=sharing