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Python Flask Files:

main.py

The main python file contains all of the routes of the database along with the corresponding authentication methods. Each route is used to accomplish each of the use cases as listed in the project description. The code is split into three main segments: Homepage when not logged in, Customer use cases, and the Airline Staff Use cases. The main python file also contains the necessary parameters to successfully connect the code to the database of the Airline Ticket Reservation System that is in phpMyAdmin.

HTML FILES:

base.html

The base html file contains all the corresponding url links that are needed for the specific cases that will be used. Whether the user is on the home page, logged in as a customer, or logged in as an airline staff, the corresponding url links will be displayed as written in this file.

cancelFlight.html

By submitting the ticket id, customers can cancel their flight.

changeStatus.html

The airline staff will have access to change the status of a given flight. In this html file, after entering the airline, flight number, departure date, and departure time, the status can be modified.

createAirplane.html

The airline staff will have the ability to add an airplane by entering the airline, airplane id, number of seats, manufacturing company, and age. However, only authorized airline staff who work for the same airline can create a corresponding airplane.

createAirport.html

Airline staff have the ability to add a new airport by entering the airport's name, city, country, and type (domestic. international or both) given that the airport is not already present

createFlight.html

Airline staff have the ability to add a new flight by entering the airline, flight number, departure airport, departure date, departure time, arrival airport, arrival date, arrival time, base price, airplane id, and the flight status.

customerlogin.html

Used to access the email and password input for a customer login.

customerregister.html

Used to obtain necessary information for a new customer by requesting the customer's username (email address), password, name, phone number, birthday, address (building number, street name, city name, and state name), passport number, passport expiration date, and the country of the passport.

flightstatus.html

Input the parameters of a flight: airline, flight number, departure date, arrival date, and flight number to generate a table showing the corresponding status of the given flight.

giveRatings.html

Customers will be able to input their ticket id and email to give a rating/comment on a previous flight they have taken. The results will be displayed on a table.

index.html

A blank page that is redirected to in certain instances of logging in and logging out.

onewayflights.html

The public can view one way flights by entering the departure airport, arrival airport, and the departure date. The results are displayed on a table.

purchaseOneWayTicket.html

Customers can purchase a one way ticket by entering the airline, flight number, departure airport, departure date, departure time, arrival airport, their card type, number, name, and expiration, along with their email address with the current date and time of purchase.

purchaseRoundTripTicket.html

Customers can purchase a round trip ticket by entering the airline, flight number, departure airport, departure date, departure time, arrival airport, return date, return time, their card type, number, name, and expiration, along with their email address with the current date and time of purchase.

roundtripflights.html

The public can view round trip flights by entering the departure airport, arrival airport, the departure date, and return date. The results are displayed on a table.

stafflogin.html

User needs to input the username and password to login as an airline staff member.

staffregister.html

Used to obtain necessary information to register as an airline staff member by requesting the username, password, first name, last name, birthday, phone number, email, and the airline they are working for.

trackSpending.html

Customers can track their spending by inputting their email address. The results are shown in a table with a default view of the past 6 months or by specifying a start and end date.

viewFlightsStaff.html

Airline staff can view the flights of the next 30 days by entering the airline that they are working for. Additionally, by entering the source airport, destination airport, start date and end date, the staff can see the flights of the specified range. The results are shown on a table.

viewFrequentCustomer.html

By entering the airline they work for, the airline staff can see the most frequent customer within the past year. Additionally, by entering the customer's email address, the airline staff can see all the flights taken by that customer. The results are shown on a table.

viewRatings.html

Airline staff can enter the flight number, departure date, and departure time to see the average rating of that flight. Additionally, each of the customers ratings and comments are also seen. Both of these outputs are displayed on two different tables.

viewReport.html

Airline staff can enter a start date and end date to view the total number of tickets that were sold within that time period. On a separate table, the total number of tickets sold each month can be viewed with the given time period.

viewRevenue.html

Airline staff are able to view the total revenue of the past year and past month on two separate tables after pressing the submit button. No inputs are necessary here.

viewTicket.html

Customers can view the flight information of the corresponding tickets they have purchased by entering their email. The result is shown on a table.