Airline Booking System

Team Members

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About the Project:

Nowadays flights have become a popular mode of transportation. With the increase in population, there's more demand for an easier mode of transportation. This puts a higher load on the airline companies, justifying the need for digitizing the underlying processes in airline management ranging from ticket booking to inventory management.

Unlike previous times where agents used to be the mediators between the airlines and users, this project can direct users into the online platform where they can book tickets without any external means and the Airlines can customize the way they offer bookings, packages and interactions with their customers. Other manual process like Boarding pass issuance is also digitalized through the application, which ensures the manual work is reduced, making the operations less time consuming and tiresome for the customers as well as the staff.

In addition to this, this project can be helpful for the airlines by introducing their company to the market in various places.

Technologies Used:

* HTML, Python, Flask

Modules:

1. Inventory Management: Records details of Available and booked seats, Class of the Seats.

Operations:

* Seat Selection
* Upgradation of Class

2. Reservation Management: Records details of Passenger reservations associated with a PNR ie; Flight details, Gate details, Departure Time, Flight no, and issuing of Boarding pass.

Operations:

* Passport Scan
* Ticket Authentication
* Boarding Pass Issuance/Check-in

3. Customer Management: Store details of all the customers ie. id, name, contact, email.

Operations:

* Booking a Ticket(s)
* Canceling a Ticket(s)
* Modifying/Amending Ticket Details

Stakeholders:

* Customers
* Airline agency
* Agents

Table:

* User(user id, phone number, user name,user password, user email, user proofs,user age, user gender)
* Travel(user id, travel id, flight id,pnr, from,to,departure time, arrival time,departure date, arrival date, seat no, class)
* Flights(fight id, flight name, airline name,seats available,flight number)
* Offers(flight id, offer,coupen code)
* Ticket status(travel id, user id, status)
* Payment(user id, amount, status, mode of payment)
* Feedback(user id, feedback, rating)
* agent(agent id, agency name, agent email, agent password, agent phone, agent city)

Primary key:

* + User:- user id, phone number
  + Travel:- Travel id
  + Flights:- flight id
  + Offer:-  Offer id
  + Agent:- Agent id

Foreign key:

* Travel - user id, flight id
* Ticket status-ticket id
* Offers - flight id, Travel id
* Payment-User id
* Feedback-User id

Reports:

* Boarding pass:- Proof for booking a ticket
* Status:- ticket booking status
* Customer:- Customer details (profile)

Requirements:

* User
* Book ticket
* Search by category(type and cost of ticket)
* Online boarding pass
* Refund of canceled ticket
* Customer identity Authentication
* Agents
  + Book Tickets with special offers/discounts
  + All requirements of the user