AIRLINE RESERVATION SYSTEM

IT'S ALL ABOUT SERVICES

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A PROJECT REPORT ON

AIRLINE RESERVATION SYSTEM

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ABSTRACT

Airline reservation System is a computerized system used to store and retrieve information and conduct transactions related to air travel. The project is aimed at exposing the relevance and importance of Airline Reservation Systems. It is projected towards enhancing the relationship between customers and airline agencies through the use of ARSs, and thereby making it convenient for the customers to book the flights as when they require such that they can utilize this software to make reservations.

INTRODUCTION

An airline reservation system (ARS) is part of the so-called passenger service systems (PSS), which are applications supporting the direct contact with the passenger.

ARS eventually evolved into the computer reservations system (CRS). A computer reservation system is used for the reservations of a particular airline and interfaces with a global distribution system (GDS) which supports travel agencies and other distribution channels in making reservations for most major airlines in a single system.

Today all persons are busy with their schedule and no one have time to make a trip for holidays with their family. And this Airline Reservation Process is very difficult to understand in General meaning. But we are providing a Solution for that Problem.

This system provides a facility to easy access towards a customers and a real time users. They can easily connected through it and just 3 steps. There is no requirement for any type of Agent. We are giving a all this facility in one project “Airline Reservation System”.

DESCRIPTION

This software has two parts. First is user part and the administrator part. User part is used as a front end and administrator is the back end. Administrator is used by airline authority. It will allow the customers to access database and allow new customers to sign up for online access.

The system allows the airline passenger to search for flights that are available between the two travel cities, namely the “Departure city” and “Arrival city” for a particular departure and arrival dates. The system displays all the flight’s details such as flight no, name, price and duration of journey etc.

After search the system display list of available flights and allows customer to choose a particular flight. Then the system checks for the availability of seats on the flight. If the seats are available then the system allows the passenger to book a seat. Otherwise it asks the user to choose another flight.

To book a flight the system asks the customer to enter his details such as name, address, city, state, and credit card number and contact number. Then it checks the validity of card and book the flight and update the airline database and user database. The system also allows the customer to cancel his/her reservation, if any problem occurs.

The main purpose of this software is to reduce the manual errors involved in the airline reservation process and make it convenient for the customers to book the flights as when they require such that they can utilize this software to make reservations, modify reservations or cancel a particular reservation.

FEATURES

- Free Account
- Selection among Large no of Airways
- Full detailed Flights
- Easy to Get Flights
- Easy to edit and view your Personal Information
- User Friendly
- Secure

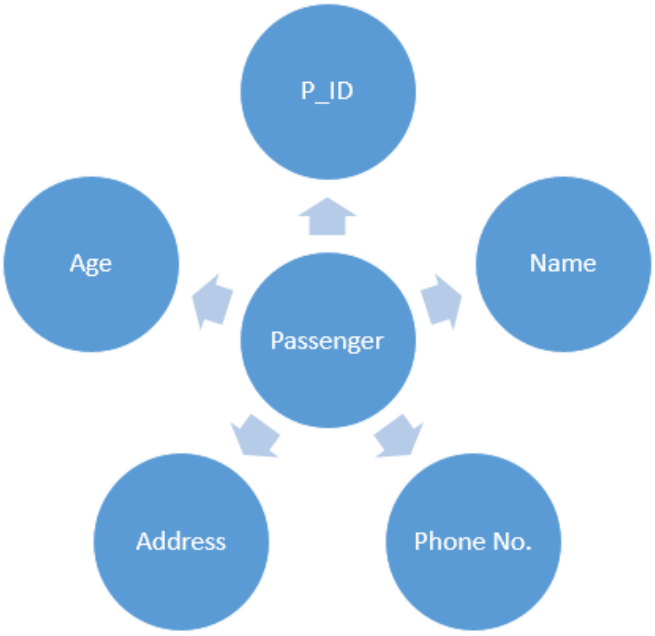
FUTURE PLANNING AND SCOPE

We are trying to give a live reporting which is updated by Airline Companies so that customer gets a live Flights checking, Available seats, Pricing and also planning to provide seats as per theirs choice so that they can travel very comfortably their journey. We will trying to provide food facility and choice to customers so that they can feel like their home and more effective amenities. We are also trying to make more attention on Business class people and their requirements.

Our future planning is to take this project towards an AndroidApp and QR Code Scanning. So that a Customer can easily contact to the Airlines and they are getting quick Services from Airlines.

We also want in future to place in market so that customer can take more advantages and saves their important time. We are also finding and approaching to companies which are using this type of software.

ER DIAGRAMS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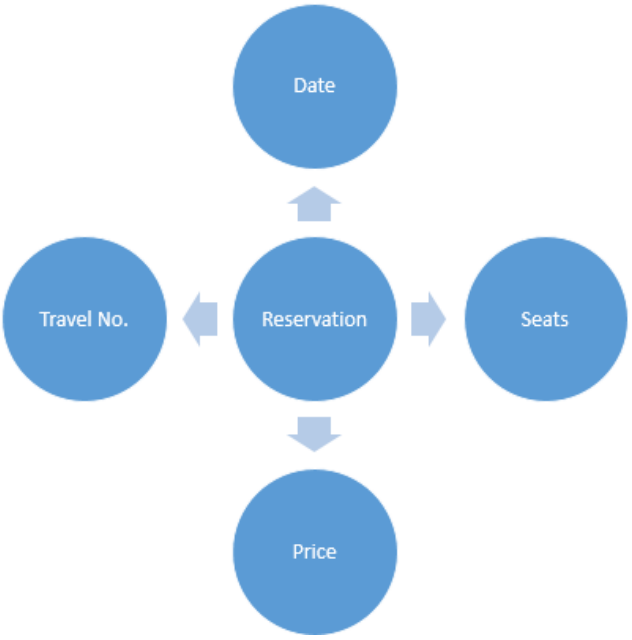
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Reservation
Seats
Price


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Travel No.
Travel Details
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Departure Time
Origin
Arrival Time


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Services
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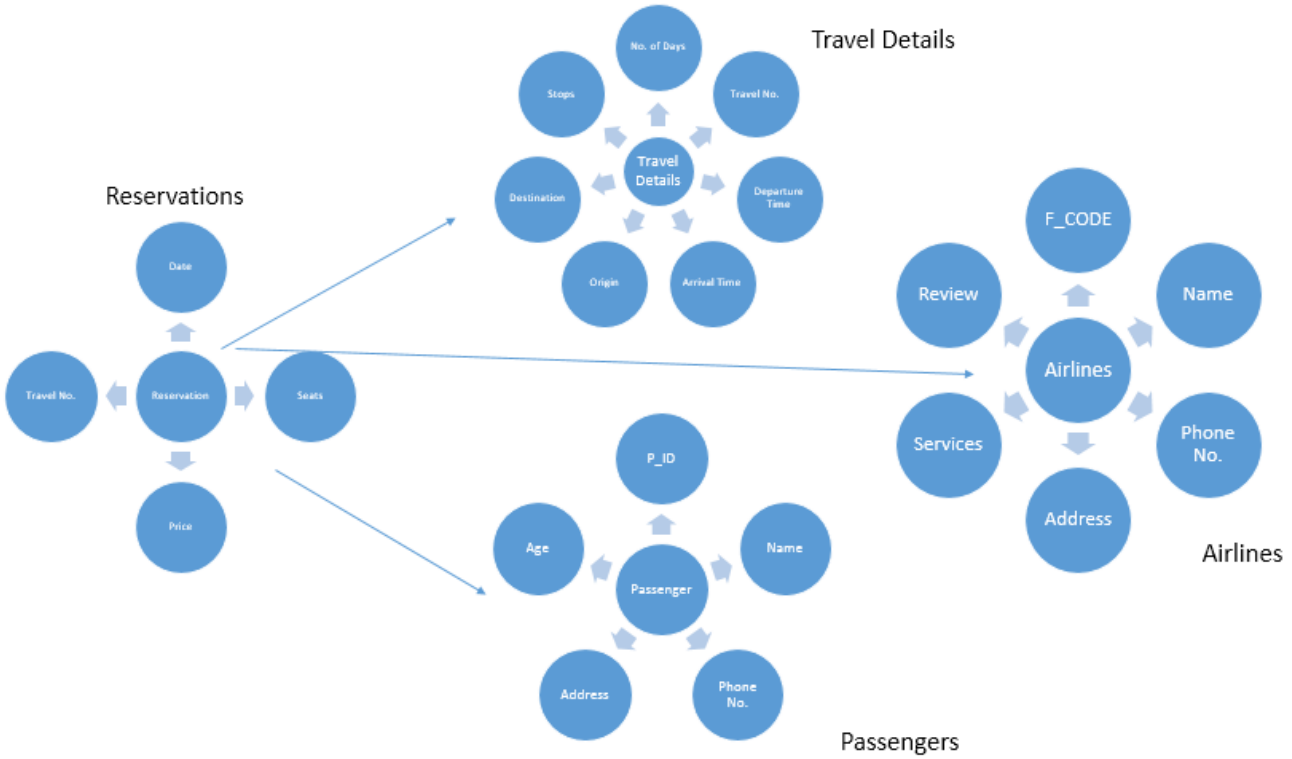
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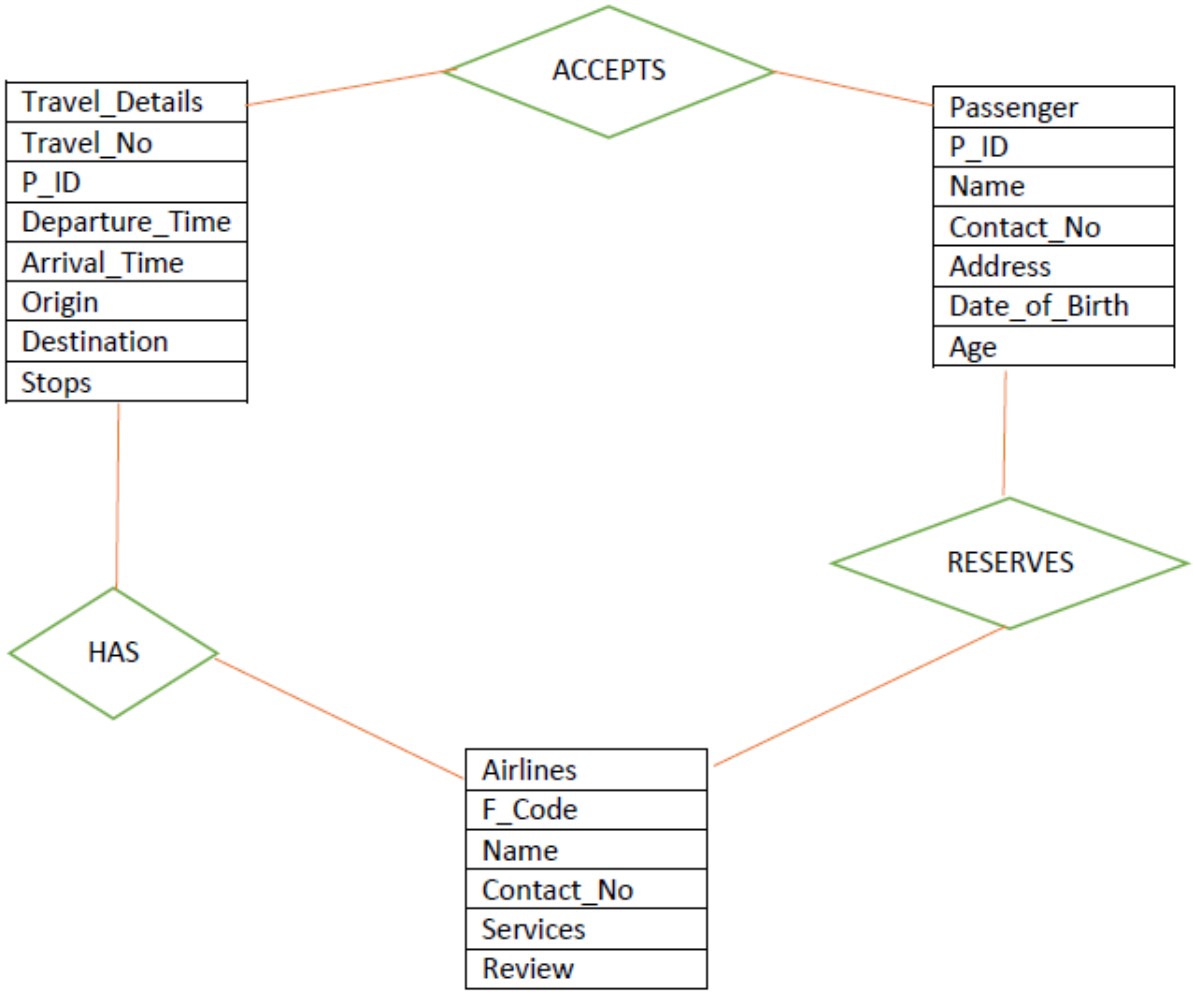
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Date_of_Birth
Age
RESERVES
HAS
Airlines
F_Code
Name
Contact_No
Services
Review

TABLE STRUCTURE

1. Table Name: Passenger_details
   Description: To store the Passenger Personal Information
   Primary Key: Passenger_ID (P_ID)

Sr. No.	Field Name	Data Type	Constraint	Description
1.	P_ID	Varchar(10)	Primary Key	To store Unique ID of every Passenger
2.	Name	Varchar(40)	Not null	To store Name of the Passenger
3.	Address	Varchar(100)	Not null	To store Address of the Passenger
4.	City	Varchar(20)	Not null	To store City
5.	State	Varchar(20)	Not null	To store State
6.	Pincode	Numeric(6,0)	Not null	To store Pincode
7.	Nationality	Varchar(20)	Not null	To store country Passenger belongs to
8.	Contact_No	Numeric(10,0)	Not null, must be 10	To store phone No.
9.	Email_Id	Varchar(30)	Not null, @ must be present	To store Email

10.	Date_Of_Birth	Date	Not null	To store Birth date of Passenger
11.	Age	Numeric(3,0)	Not null	To store Age
12.	Gender	Char	Not null, M or F	To store Gender

2. Table Name: Airlines_master
   Description: To store Info of different private Airlines
   Primary Key: Name

Sr No.	Field Name	Datatype	Constraint	Description
1.	Name	Varchar(15)	Primary Key	To store Name of the Airline
2.	Contact_No	Numeric(14,0)	Not null	To store contact no. of the Airline
3.	Address	Varchar(50)	Not null	To store Address
4.	Services	Varchar(50)	Not null	To store services provided by each Airlines
5.	Class	Varchar(10)	Not null	To store classes of Airlines
6.	Review	Varchar(30)	Not null	To store expert review

3. Table Name: Flight_details
   Description: To store Schedule and Travel details of Airplanes
   Primary Key: F_CODE

Sr No.	Field Name	Datatype	Constraint	Description
1.	F_CODE	Varchar(10)	Primary Key	To store Unique ID of each Plane
2.	Origin	Varchar(20)	Not null	To store Origin position of Train
3.	Destination	Varchar(20)	Not null	To store Destination of the Train
4.	Departure_Time	Date and Time	Not null	To store departure Time
5.	Arrival_Time	Date and Time	Not null	To store Arrival Time

4. Table Name: Flight_Reservation
   Description: To store Info on Reservation Details Combining Passenger and Flights
   Primary Key: R_CODE
   Foreign Key: P_ID, F_CODE, Age

Sr No.	Field Name	Datatype	Constraint	Description
1.	R_CODE	Varchar(10)	Primary Key	To store Unique ID of each Reservation

2.	F_CODE	Varchar(6)	Not null, reference	To store ID of Flight
3.	P_ID	Varchar(10)	Not null, reference	To store ID of Passenger
4.	Date	Date	Not null	To store date of reservation
5.	Seats	Numeric(3)	Not null, less than total seats for corresponding F_CODE	To store seats reserved
6.	Class	Varchar(10)	Not null	To store Class of Passenger
7.	Age	Numeric(3)	Not null, reference	To store Age of Passenger
8.	Price	Numeric(6,2)	Not null, custom	To store Price