**Airline Ticket Reservation System**

Airline ticket reservation system provides facilities to passengers for booking their air tickets online. Passengers can book the tickets through travel agencies. Travel agency is uniquely identified by their ID number and it has a name and address. A travel agency can have one or more phone numbers. Passengers are uniquely identified by their passport number. System keeps details about names, ages, genders and addresses of passengers. Passenger can have more than one contact numbers and emails. A travel agency can have one or more passengers.

Travel agency books flights. Flights are uniquely identified by flight number. Flight has a source and destination. As well as it has relevant departure time, departure date, arrival time and arrival date. A flight can have multiple classes (as an example economy, business, first and shuttle etc). Flights travel on routes. Routes has unique route number and an order. Oder consists a starting point, turning point and ending point. Only one flight can travels on a route at same time. Fair will be charged according to the route. Every fair has own ticket number. It keeps details about the amount of ticket and payment method.

A flight is assigned to an airline and one airline can handle more flights. Airline is uniquely identified by its code. It also has a name and address. Airlines own one or more airplanes. Airplanes are uniquely identified by airplane registration number. System keeps details about the type (model) of airplane and number of seats that are available in each plane. System keeps records about seats of each plane. Seats are uniquely identified by their seat number. If an airplane stops its work for airline, records of its seats will be removed from the system. Airplanes land on airports. An airport is uniquely identified by its code. It also has a name and location.