**Travel Booking System**

Rough Schema

Entities:-

-Customer : Customer\_id , Fname , Lname , phonenumber , email ,

Date of Birth , Address.

-Flight : Flight\_id , air\_company , prices , available seats , Departure.

-Hotel : Hotel\_ID , Name , Location , Available Rooms.

-Car rental : Rental\_ID , Rental Company , Car Type , Availability.

-Booking :Booking\_ID , Customer ID , Flight ID , Hotel ID ,

CarRental\_ID , Booking Date , Total Price.

-Payment : Payment\_id , method , amount , Booking id.

-Path : Path\_id , Customer\_id , Status , Car rental , Departure

airport , Departure time , Arrival airport , Arrival time.

-Airport : airport\_code , name , location.

Relations:-

1) associate between (Customer and Path)

2) places between (Customer and Booking)

3) makes between (Customer and Payment)

4) has between (Flight and Booking)

5) belongs to between (Hotel and Booking)

6) rent between (Car Rental and Booking)

7) land between (Path and Flight). 8) Consist of between (Path , Flight)

Cardinality ratio:-

1) associate between (Customer and Path): many-to-many from Path to

Customer.

2) places between (Customer and Booking): one-to-many from Booking

to Customer.

3) makes between (Customer and Payment): one-to-one

4) has between (Flight and Booking): one-to-many from Flight to

Booking.

5) belongs to between (Hotel and Booking): one-to-many from Hotel to

Booking.

6) rent between (Car Rental and Booking): one-to-one.

7) land between (Path and Flight): many-to-many.

8) consist of between (Flight and Path): one-to-many from Flight to

Path.

Participations:-

1) associate = Customer(partial) , Path(total).

2) places = Customer(partial) , Booking(total).

3) makes = Customer(partial) , Payment(total).

4) has = Flight(total) , Booking(total).

5) belongs to = Hotel(total) , Booking(total).

6) rent = Car Rental(total) , Booking(partial).

7) land = Airport(total) , Flight(total).

8) consist of = Flight(total) , Path(total).