

Tour and travel Management System

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ER Modeling

ER-modeling is a data modeling technique used in software engineering to produce a conceptual data of a information system. Diagram created using this ER- modeling technique are called Entity-Relationship Diagram, or ER diagram or ERDs.

ERD Details

There are 7 entities –

- Customer
- Travel Agency
- Package
- Travel Class
- Transportation Type
- Booking
- Payment

Tour and travel Management System

Tour and travel management is a web based application which a Customer can Book a package. In other words it is a simple web based application in which Customer has to register after that he can book a package as per the requirement. On the other hand the admin will accept the Customer's booking request and sent a confirmation to him.

In This ERD, **Customer** is a main entity which is contains all basic details about Customer such as hostel name, phone, email etc. Customer has a unique identity number, which is Customer_ID. Customer table have basic attributes such as Customer_name, Phone, Email, Gender, DOB, Passport_no, Address, Postal_code, username and password.

In this ERD, **Travel_Agency** is second entity which is contains all details about Travel Agency. Travel_Agency has a unique identity number, which is Agency_ID. Travel_Agency table have basic Attributes Such as Agency_Name, Phone, Email, City, Country, address and PostalCode.

In this ERD, **Travel_Class** is third entity. Which is contains all details about Travel_Class. Travel_Class has a unique identity number, which is Travel_Class_ID. Travel_Class have basic Attributes Such as Class_Name and Description.

In this ERD, **Transportation Type** is forth entity which is contains all basic details about Transportation category. Transportation has a unique identity number, which is TransportationType_ID. Transportation table has basic Attributes Such as Transportation_Type_Name and Description.

In this ERD, **Package** is fifth entity which is contains all details about Package. Package has a unique identity number, which is Package_ID. Package table has Attributes Such as Agency_ID*, Travel_Class_ID*, Transportation_type_ID*, From_City, To_City, Package_Amount, Description.

In this ERD, **Booking** is sixth entity which is contains all details about Booking. Booking has a unique identity number, which is Booking_ID. Booking table has Attributes Such as Customer_ID*, Package_ID*, Booking_Date, From_Date, To_Date, Total_Amount and Booking_Status.

In this ERD, **Payment** is seventh entity which is contains all details about Payment. Payment has a unique identity number, which is Payment_ID. Payment table has Attributes Such as Customer_ID*, Booking_ID*, Payment_Date, Payable_Amount, Payment_methos and Payment_Status.

Cardinality:

- Customer **1:M** Booking
- Customer **1:M** Payment
- Booking **1:1** Payment
- Booking **1:M** Package
- Travel_Agency **1:M** Package
- Travel_Class **1:M** Package
- Transportation **1:M** Package

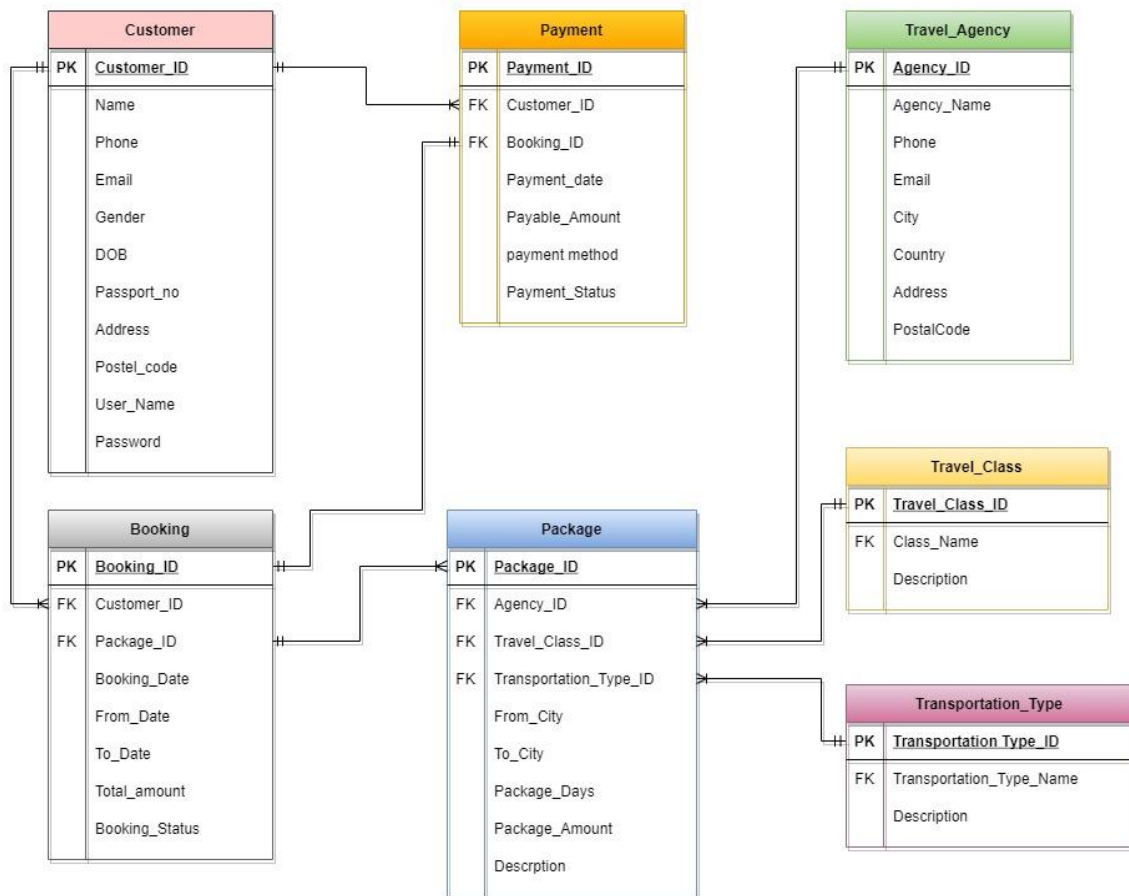


Figure 1: ER Diagram

UML Class Diagram

A Class Diagram is a diagram describing the structure of a system. It consists the:

- Classes
- Attributes
- Operations (or methods)
- Relationships among the classes

Tour and travel management system is a web based application which a Customer can Book a package as per choice. In other words it is a simple web based application in which Customer has to register after that he can choose and book a package. On the other hand the admin will accept the Customer Booking.

Tour and travel management system, there will be multiple class those perform operations as below-

Customer – In This system Customer is a class. Customer can register and can Book package per requirements. It Perform many function such as Store_Customer_Details(), Manage_Customer_Profile(), Add_new_Customer(), Update_Customer_Info() and Delete_Customer_Info(). Student manage attribute: Customer_ID, Name, Phone, Email, Gender, DOB, Passport_no, Address, Postal_code, Username and Password. It has connectivity 1:M from Booking and Payment.

Travel_Agency – In this system Travel Agency is class which store Travel Agency details. It Perform many function such as Manage_Travel_Agency(), Add_New_Agency(), Delete_Agency_info(), Store_Agency_Details() and Update_Travel_Agency().Hotel class manage attribute: Agency_ID, Agency_name, Phone, Email, City, Country, Address and PostalCode. It has connectivity 1:M from Package.

Travel_Class – In This System Travel Class store Information about Travel Class details such as Premium, Economy and Busuness. It Perform many function such as Add_newTravel_Class(), RemoveTravel_Class(), Store_Class_info() and update_Travel_Class(). Travel_Class manage attribute: Travel_Class_ID, Class_name and Description. It has connectivity 1:M from Package.

Transportation_Type – In This System Transportation type store Information about Transportation details such as Road Transportation, Rail Transportation, Air Transportation and Marine Transportation. It Perform many function such as Add_new_Transportation_Type(), Remove_Transportation_Type(), Store_Transportation_Type_info() and Update_Transportation_Type(). Transportation type manage attribute: Transportation_type_ID, Transportation_Type_nam and Description: varchar(255). It has connectivity 1:M from Package.

Package – In this System Package is a class which is store and manage Package details. It Perform many function such as Manage_Package_Info(), Add_New_Package(), Delete_Package(), Store_Package() and Update_Package_Info(). Package manage attribute: Package_ID, Agency_ID, Travel_Class_ID, Transportation_type_ID, From_City, To_City, Package_days, Paackage_amount and Description. It has connectivity 1:M from Booking, Travel_Agency, Travel_Class and Transportation_Type.

Booking – In this System Booking is a class which is store all details about Booking. It Perform many function such as Add_New_Booking(), Delete_Booking(), Store_Booking_Details(), Manage_Booking() and Update_Booking_Info(). Booking manage attribute: Booking_ID, Customer_ID, Package_ID, Booking_Date, From_date, To_date, Total_Amount and Booking_Status. It has connectivity 1:M from Customer and Package and 1:1 from Payment.

Payment – In this System Payment is a class which is store all details about Payment. It Perform many function such as Manage_Booking(), Add_new_Payment(), Delete_Payment_info(), Manage_PaymentDetails(), update_payment_Info() and Generate_Payment_Report(). Payment manage attribute: Payment_ID, Booking_ID, Customer_ID, Payment_date, Payable_Amount, Payment_Method and Payment_Status. It has connectivity 1:M from Customer and 1:1 from Booking

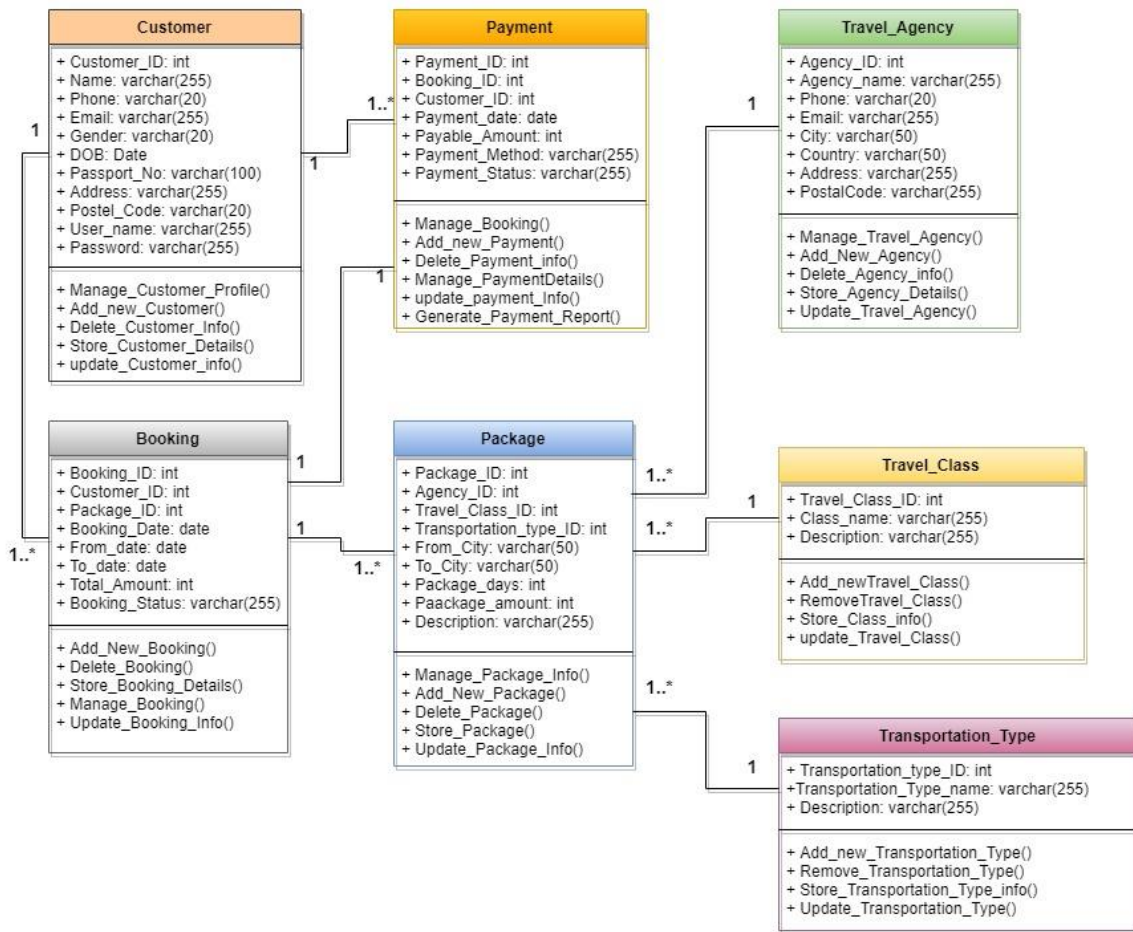


Figure 2: UML Class Diagram