

## **CSE 3055 Database Systems – TERM PROJECT PROPOSAL**

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### **Project Name: Travel Agency Database**

#### **Introduction**

Travel agency sites come handy in times when you need travel services. Planning for your vacation, particularly during holiday seasons can be a lot less pricing if you have contacted a reputable travel agent to help you. A travel agency database system may contain many bookings, payment and customer information. For this reason, travel agencies need to use a well-designed database system to keep a record of their customers and bookings.

The database allows for;

- Quick book hotel, flight, restaurant or car.
- Tracking customers' bookings.
- Keep customers' information such as phone number, address to provide easy communication between agency and the customer.
- Easy tracking of payment and income.
- Tracking booking outcomes.
- Tracking booking/payment status.
- Less payment errors.
- Booking records will be stored and can be accessed

#### **Project Aims and Objectives**

A company has several travel agency that has attributes of the travel agency identifier and travel agency name. A booking can be different number of services such as hotel room, airlines, cars and restaurants. These bookings consist of product identifier that can be service bookings. We identify the following additional attributes for bookings: customer identifier, outcome identifier, status identifier, travel agency identifier, date of booking and booking details.

A travel agency may group any number of bookings. A booking must belong to a travel agency.

Each booking must have a booking outcome that describes the success of the booking with outcome identifier, and outcome status as canceled or OK. Booking outcomes may have bookings optionally.

Each booking must have booking status attribute that has status identifier and status description such as provisional or precise. Booking status entities may have bookings optionally.

Customers can book services. A customer will be identified by a unique customer ID and consists of customer details such as name, surname and phone number. Customers may have optional

many customer addresses that consist of date from and date to attributes and must have addresses entity which has address identifier and address details. Each booking is booked by at least one customer.

Payments of bookings will be consisting of payment identifier, booking identifier, payment amount, payment date and other details if it is necessary. Bookings optionally may have many payments. Payments must have booking.

Supertype services entity will exist with subtypes: airlines, cars, hotels and restaurants. The identifier for a service is service id and another attribute is service details.

Airlines entity has an airline identifier and airline name attributes.

Cars entity has car id, car model and car type attributes such as compact car, SUV etc.

Restaurants entity has restaurant id, restaurant name and address attributes.

Hotels entity has hotel identifier, hotel name, address attributes.