

Lab Assignment - 1

Group number: 7

Teaching Assistant: Kashyap Nirmal (202011031)

Group members:

- Riya Dineshkumar Soni (202012025)
- Kakkan Anurag Kishor (202012026)
- Gandhi Viral Ashok (202012027)
- Sukhadia Rutvi Kumarpal (202012028)
- Shah Siddhant Alkeshbhai (202018013)
- Shah Nihar Shaileshbhai (202018014)

Title: Tourism Management system.

Scope of Database:

A Trip/Tourism management website needs to manage all its users, hotels and restaurants, tour guides and tour packages efficiently. Our task is to create a database where all the data regarding users, guides, hotels, tour packages can be stored and retrieved. Following are the database description/requirements:

Description/Requirements:

- 1) User will have userid, fname, lname, phone, address, city, pincode.
- 2) The website will offer packages that include hotels/villas, tour guides, different visiting spots based on the price and the duration of the full trip and can be uniquely identified using a PackageID. The admin of the site can add/edit/delete packages to the website which can be viewed by the user.
- 3) Stay will include the list of hotels/villas information like stayID, name, roomtype(AC/ NonAC), Availability of room, price, roomcapacity, foodtype(Punjabi etc..).
- 4) Each hotel room/villa/package can only accommodate a certain number of people.

- 5) User has to select if he/she will be travelling solo or with more than one person.
- 6) Users can also directly book a Stay instead of opting for packages.
- 7) Each stay can be part of many packages.
- 8) Each package will have Single Guide allocated to it.
- 9) Each tour guide will be available at a Single Location. i.e they can only show around the spots to the user in that location.
- 10) Guide will have name, Number, Gender, Age, Email, Phone.
- 11) Users can also view the list of tourist spots based on the location selected.
- 12) Users can view the restaurants and cafes nearby the location selected.
- 13) Bookings will hold the records of all the bookings made by the Users and can only be viewed by the Admin.
- 14) User will be allowed to send feedback and complains regarding their experience which can be viewed only by the Admin.

Queries that database system should be able to answer:

- 1) Retrieve the packages within a particular price range.
- 2) Retrieve the list of all the restaurants at location "abc".
- 3) Retrieve all the hotels that are at location "xyz"
- 4) View all the restaurants that have "Punjabi" food.
- 5) View the list of all the tourist spots in the selected location.
- 6) View the list of hotels starting from the Lowest Price to Highest Price.
- 7) Show the list of top 5 packages based of most number of users who selected it.

Entity & Attributes:

User: userID, name, age, phone, email, gender, no-of-people-travelling, copassengerID

CoPassenger: copassengerID, name, age, phone, email, gender.

Packages: packagesID, trip-cost, hotel/villaID, duration-of-trip, guide-id, locationID.

Stay: stayID, type (Hotel/Villa), name, room-type (AC/NonAC), number-of-rooms(2BHK etc..), room-price, available-rooms, room-capacity, food, locationID.

Guide: guideID, name, number, gender, age, email, phone, locationID.

Location: locationID, state, district, city.

SightSeeingSpots: spotID, locationID, spot-name, address.

Restaurants: restaurantID, name, locationID, cuisines.

Bookings: bookingID, userID, packageID(can have null values), stayID(Can Have null values), trip-cost, date.

FeedbackComplaints: feedbackID, hotelID, packageID, comments