**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.
* The website only allows user to book packages and hotels. The mode of transport such as Flights/Trains won’t be included.
* 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.

1. Users can also view the list of tourist spots based on the location selected.
2. Users can view the restaurants and cafes nearby the location selected.
3. Bookings will hold the records of all the bookings made by the Users and can only be viewed by the Admin.
4. 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.