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Explore Vibes

PG-DAC Sept-2023

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ABSTRACT

In this project a detailed review of tour and travels management system is given .The main objectives of this website is to know the package related to the trip and journey with best facility and current offer. Searching will be very easy. At a single click user will be able to fetch the required data. Nowadays, there are multiple travel packages existing from the various websites to approximately all the locations over the world. A customer demonstrates that it is extremely complicated to search for the multiple of the packages as for significant websites, contact, and communication with the travel agents and more options that exists in it which is a passive method and time-consuming.

This project will assist travellers to recommend the best Travel Package among all the packages relevant information such as image, hotel facility, Google map facility, transport facility and description about the places where they want to visit. The tour and travels management system will be helpful for tourism.

ACKNOWLEDGEMENT

I extend my sincere and heartfelt thanks to our esteemed guide, Mrs. Sonali Mogal mam for providing us with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected Centre Co-Ordinator Mr. Rohit Puranik, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INDEX

Sr. No.	Title	Pg. No.
1	INTRODUCTION	4
1.1	PURPOSE	5
1.2	SCOPE	5
1.3	OBJECTIVE OF PROJECT EXPLORE VIBES	5
1.4	FUNCTIONALITIES PROVIDED BY EXPLORE VIBES ARE AS FOLLOWS	5
2	REQUIREMENT	7
3	DATABASE DESIGN	10
4	DIAGRAMS	14
5	TESTING SCREENSHOTS	21
6.	FUTURE ENHANCEMENTS AND CONCLUSION	25
7.	REFERENCES	27

1. INTRODUCTION

The main purpose of Tour and travels management system is to provide a best facility and travelling services for a customer to book hotels, flight and bus ticket for trip purpose. We have developed tour and travels management system to provide a search platform find their tour places according to their choices. This is instead of to provide the best traveling services to the customers and travel agents. We have expanded tours and travel administration strategy to provide an exploration platform where a tourist can find their trip spots according to their choices. This method further assists to promote reliable and fascinating tourism so that people can celebrate their vacations in their favourite places. This process also encourages to expanding tourism with different cultures, communities, so that they enhance the tourism experience, adventure, and build pride. We create this system to establish and expand the structure of tourism that provides healthy interaction opportunities for tourists and natives and improves a better awareness of different cultures, traditional lifestyles, traditional knowledge and moralities. This system moreover provides a better way to connect with various events. This system also provides trip-related information like which spots are tourist attractions, cities, and regions. Tourists can also fetch the Map and navigation system and climate information. This project is useful for tourists who are unfamiliar with the places where they want to visit. The application displays geographic-based data to the people shifting to the different cities and to the people who are ready to go on a journey.

It requires some time for working at their task but it is not much time-consuming. It is very efficient and reliable project. Our TMS deals with the visitors and travellers and other members of the organization. Since this is a real-time website, so the admin will be the director of the organization.

Purpose

The purpose of this document is to provide a detailed specification of the features and functionalities of the "Explore Vibes" It outlines the requirements, system architecture, and user interactions.

1.1 Scope

- This type of software's can be further extended for generating reviews related to the tourist requirements.

- Also, can be used for generating reviews for the Online Videos provided on the software.
- Easy to find the nearby famous places, temples & monuments.
- Developer can be providing the update information of the places and also provide updates to the software for better serves.
- Provide offers for various places in budgets occasionally.

1.2 Objective of Project on Explore Vibes:

The objective of the Explore Vibes project is to develop a system that automates the processes and activities of a travel. The purpose is to design a system using which one can perform all operation.

1.3

There are four modules in this software, now:

➤ **Admin module:**

- 1) Admin can manage the user and receive package from traveller & package management.
- 2) This module provides administrator related functionality. Administrator manages all information and has access rights to add, delete, edit and view the data related to places, travels, routes, bookings, etc.

➤ **Travels Module:**

- 1) This module provides the details of various travel agencies. A user can select the appropriate agency depending on convenience and accessibility.-

➤ **Customer:**

1. Customer can view package and booking.
2. This module helps to customer.

➤ **Visitor:**

- 1) Visitor can view site and give feedback.
- 2) View site

2. REQUIREMENTS

Software Requirements Specification (SRS) - ExploreVibes

1. Introduction

1.1 Purpose

The purpose of the ExploreVibes is to provide a comprehensive platform for managing various aspects of tourism, including user registration, tour packages, bookings, hotels, flights, trains, buses and payment processing.

1.2 Scope

The ExoloreVibes will include modules for user management, tour package management, booking management, hotel mangement, flight management, train management, bus management and payment processing.

2. System Overview

2.1 System Description

The ExploreVibes will serve as an online platform for users to explore, book, and manage tourist packages. It will facilitate seamless communication between users, administrators, and service providers.

2.2 System Architecture

FrontEnd: ReactJs

Backend: SpringBoot, SpringDataJPA

Database: MySql 8.0 command line client

2.3 User Roles and Responsibilities

Guest: Visitors who can browse available packages.

User: Registered individuals who can book packages.

Administrator: System administrators responsible for managing users, packages, and bookings.

3. Functional Requirements

3.1 Use Cases

Use Case 1: Browse Packages

Description: Guests and users can view available tour packages.

Actors: Guest, User

Preconditions: The system is accessible.

Use Case 2: User Registration

Description: Guests can register as users.

Actors: Guest

Preconditions: The user is not registered.

3.2 Functional Requirements

Requirement 1: User Authentication

Description: Users must authenticate to access personalized features.

Requirement 2: Booking Confirmation

Description: Users receive confirmation upon successful booking.

4. Non-functional Requirements

4.1 Performance Requirements

The system should handle a concurrent user load of at least 1000 users.

Response time for common operations should be within 2 seconds.

4.2 Security Requirements

User authentication should be secure, using encryption and secure protocols.

4.3 Usability and User Experience Requirements

The user interface should be intuitive and user-friendly.

4.4 Scalability Requirements

The system should be easily scalable to accommodate future growth.

5. User Interface Design

5.1 Overview of the User Interface

Describe the general layout and design principles.

5.2 User Interface Components

Screen 1: Home Page

Screen 2: User Registration

Screen 3: Package Booking

Screen 4: Hotel Booking

Screen 5: Bus Booking

Screen 6: Train Booking

Screen 7: Flight Booking

6. Data Requirements

6.1 Data Entities

User
Tour Package
Booking
Payment
Bus
Hotel
Flight
Train
Room

7. System Constraints

7.1 Hardware Constraints

Hardware : core i3
RAM: 4GB or above

7.2 Software requirements

Operating System: Windows
Technology: Java and J2EE
Web Technologies: Html, JavaScript, CSS, ReactJs
IDE: My Eclipse
Web Server: Tomcat
Database: MySql8.0
Java Version: JDK 11

8. Assumptions and Dependencies

8.1 Assumptions

Users have access to a reliable internet connection.

8.2 Dependencies

The system may depend on third-party APIs for payment processing.

3. DATABASE DESIGN

Database Design

The following table structures depict the database design.

Table 1: Booking:

MySQL 8.0 Command Line Client

```
mysql> desc booking;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
date	date	YES		NULL	
payment_status	varchar(255)	YES		NULL	
bus_id	bigint	YES	MUL	NULL	
flight_id	bigint	YES	MUL	NULL	
hotel_id	bigint	YES	MUL	NULL	
package_id	bigint	YES	MUL	NULL	
train_id	bigint	YES	MUL	NULL	
user_id	bigint	YES	MUL	NULL	

9 rows in set (0.09 sec)

Table 2: Bus:

```
mysql> desc bus;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
arrival_time	varchar(255)	YES		NULL	
departure_date	date	YES		NULL	
departure_time	varchar(255)	YES		NULL	
destination	varchar(255)	YES		NULL	
source	varchar(255)	YES		NULL	

6 rows in set (0.00 sec)

Table 3:Flight and Train :

MySQL 8.0 Command Line Client

6 rows in set (0.00 sec)

```
mysql> desc flight;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
airline	varchar(255)	YES		NULL	
arrival_time	varchar(255)	YES		NULL	
departure_time	varchar(255)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> desc train;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
arrival_time	varchar(255)	YES		NULL	
departure_date	date	YES		NULL	
departure_time	varchar(255)	YES		NULL	
destination	varchar(255)	YES		NULL	
source	varchar(255)	YES		NULL	
train_name	varchar(255)	YES		NULL	

7 rows in set (0.02 sec)

Table 4: Hotel:

```

MySQL 8.0 Command Line Client
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.02 sec)

mysql> desc hotel;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | bigint        | NO   | PRI | NULL    | auto_increment |
| location   | varchar(255)  | YES  |     | NULL    |                |
| name       | varchar(255)  | YES  |     | NULL    |                |
| rating     | varchar(255)  | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> desc tour_package;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id             | bigint        | NO   | PRI | NULL    | auto_increment |
| description     | varchar(255)  | YES  |     | NULL    |                |
| number_of_days  | int           | NO   |     | NULL    |                |
| number_of_persons | int          | NO   |     | NULL    |                |
| package_name    | varchar(255)  | YES  |     | NULL    |                |
| place          | varchar(255)  | YES  |     | NULL    |                |
| price          | double        | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

```

Table 5: user:

```
mysql> desc user;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
phone	varchar(255)	YES		NULL	
role	varchar(255)	YES		NULL	

7 rows in set (0.00 sec)

Table 6:Room and Payment

```
MySQL 8.0 Command Line Client
mysql> desc room;
```

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
fare	double	NO		NULL	
room_number	varchar(255)	YES		NULL	
roomtype	varchar(255)	YES		NULL	
hotel_id	bigint	YES	MUL	NULL	

5 rows in set (0.00 sec)

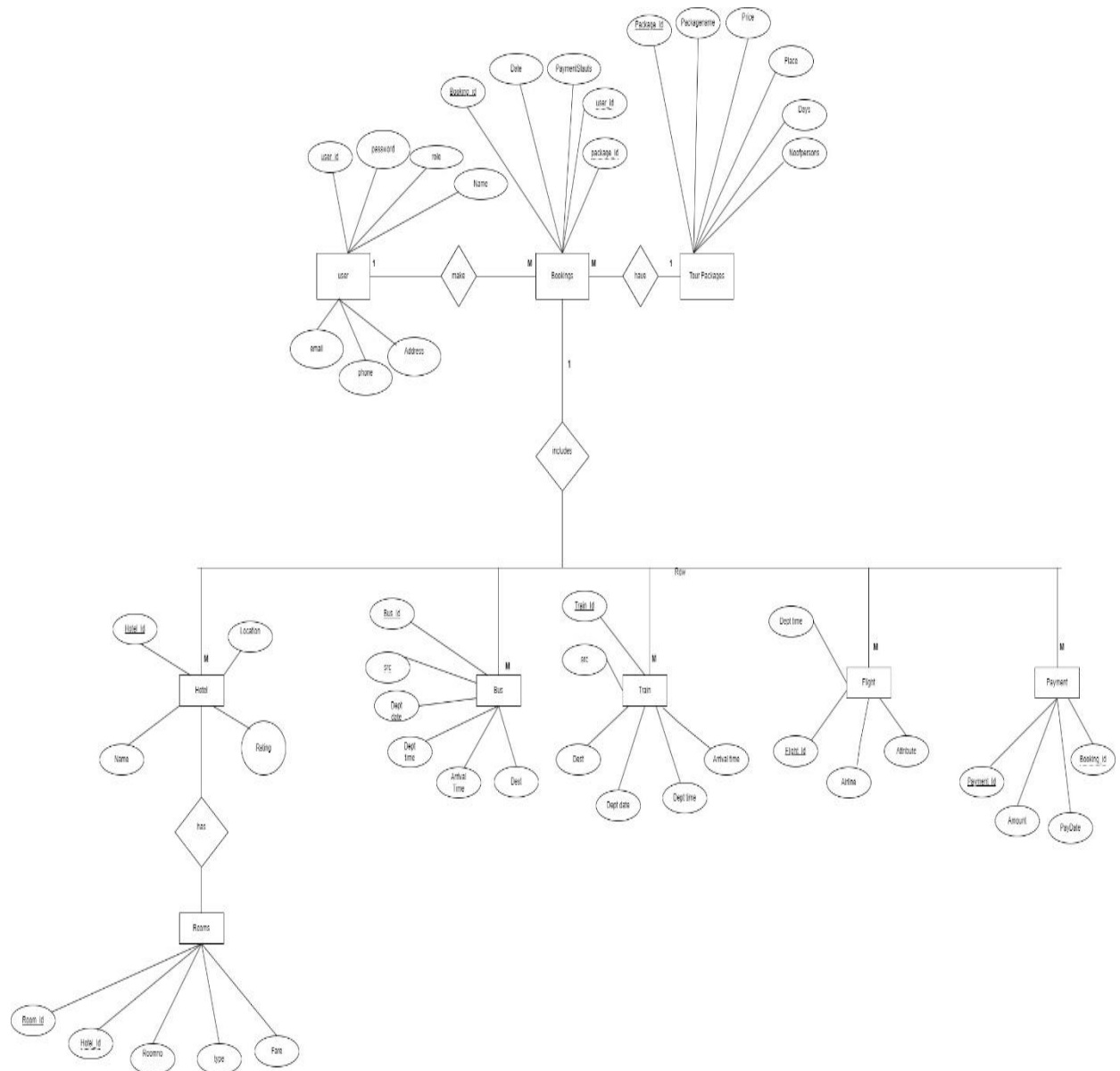
```
mysql> desc payment;
```

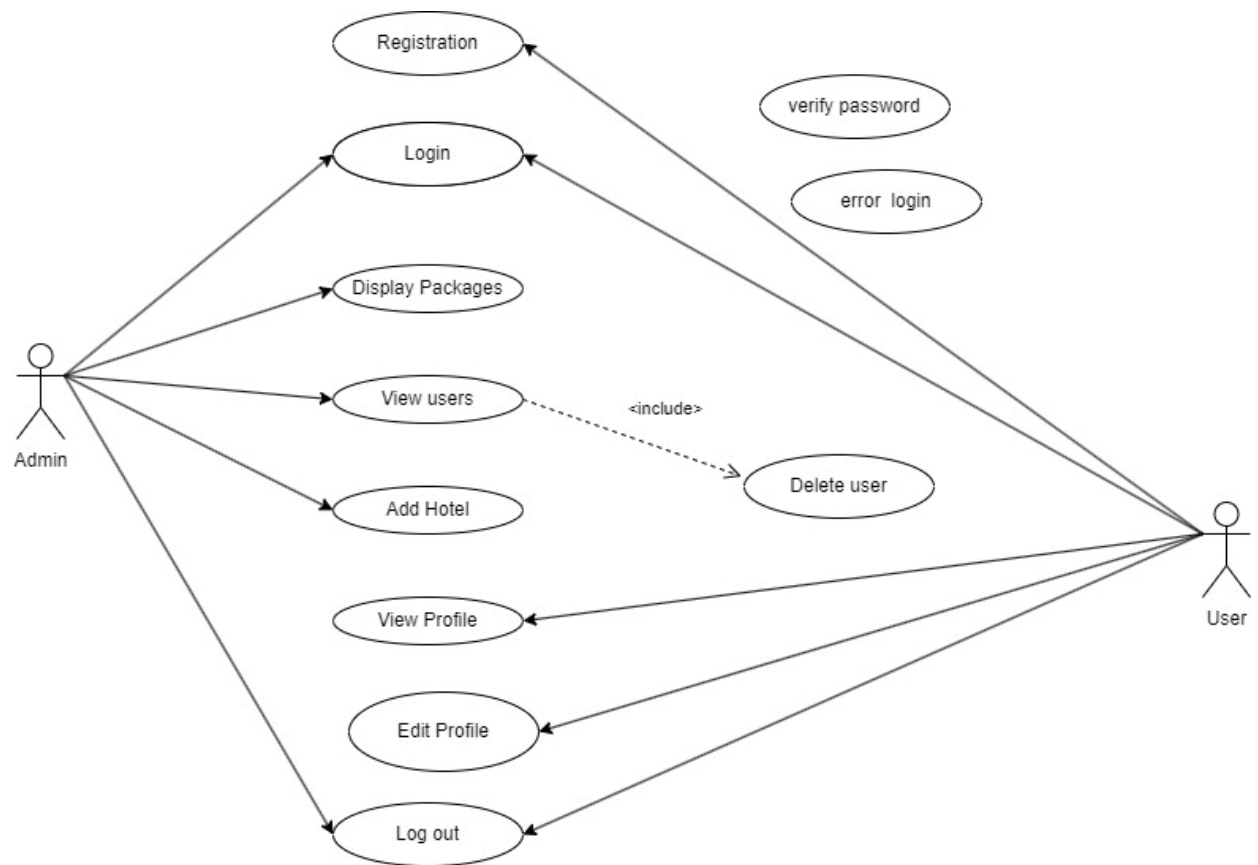
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
amount	double	NO		NULL	
payment_date	date	YES		NULL	
payment_status	bit(1)	NO		NULL	
booking_id	bigint	YES	MUL	NULL	

5 rows in set (0.00 sec)

4.DIAGRAMS

Entity Relationship Diagram:

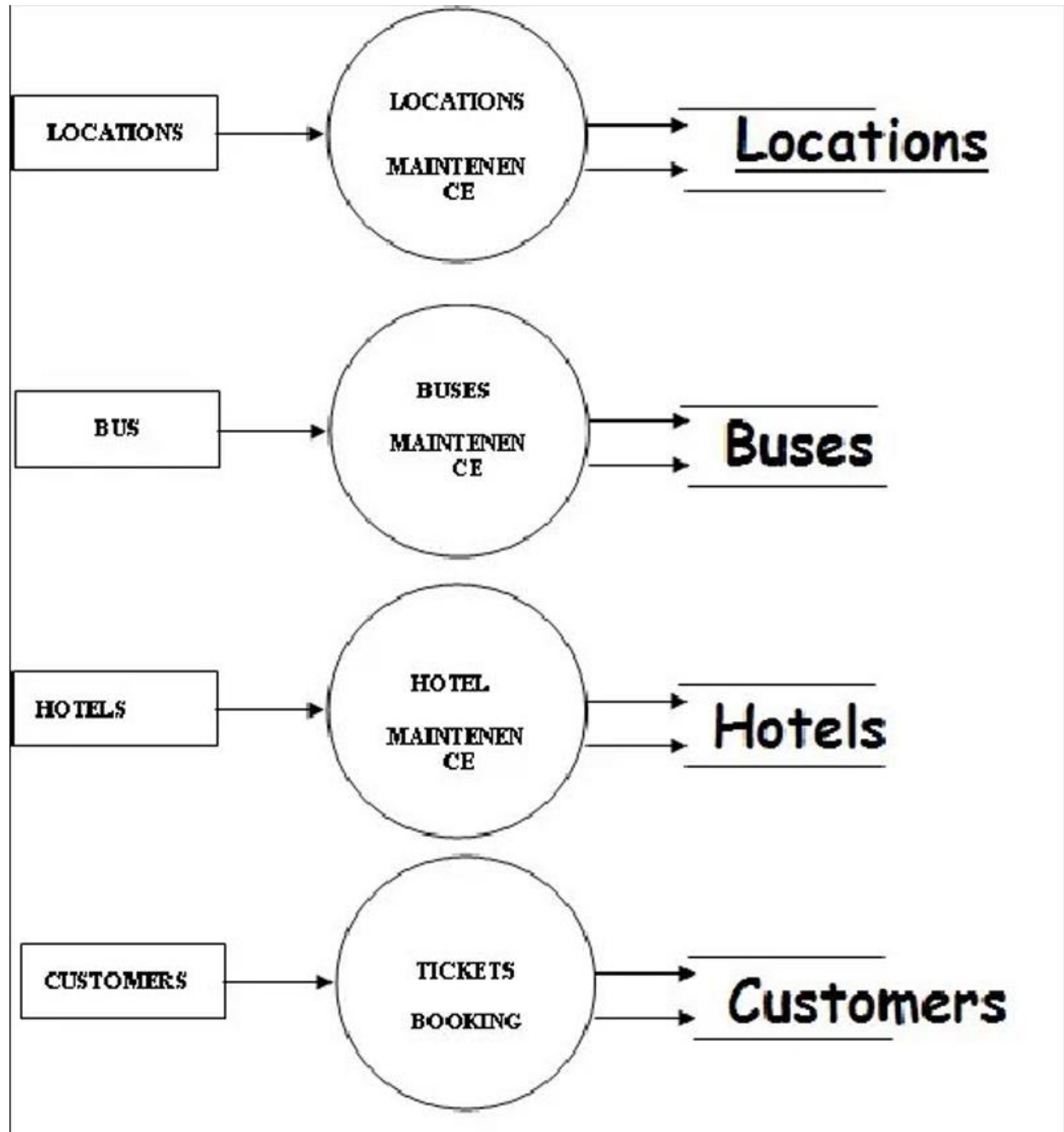


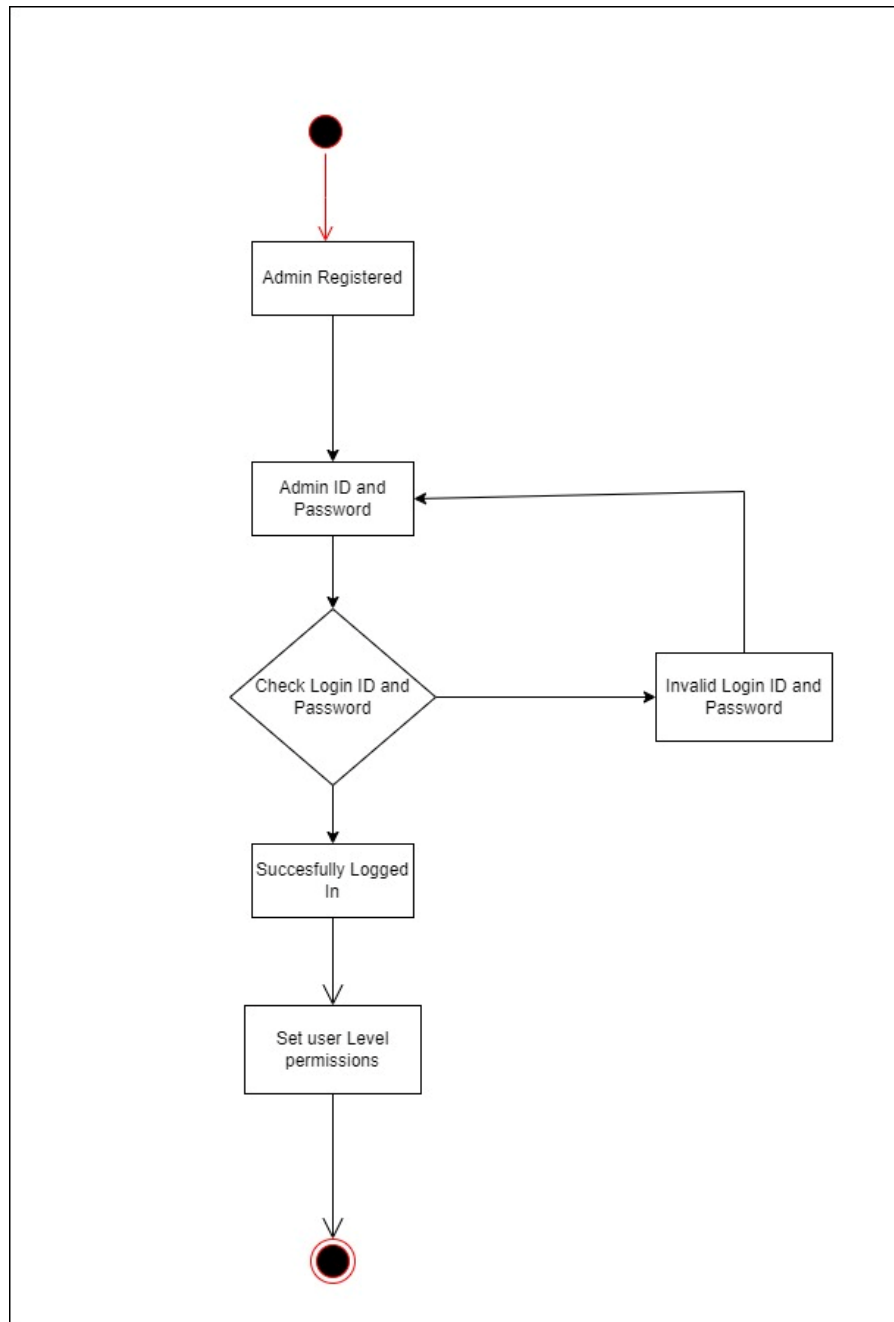
Use Case Diagram:**Data Flow Diagram:**

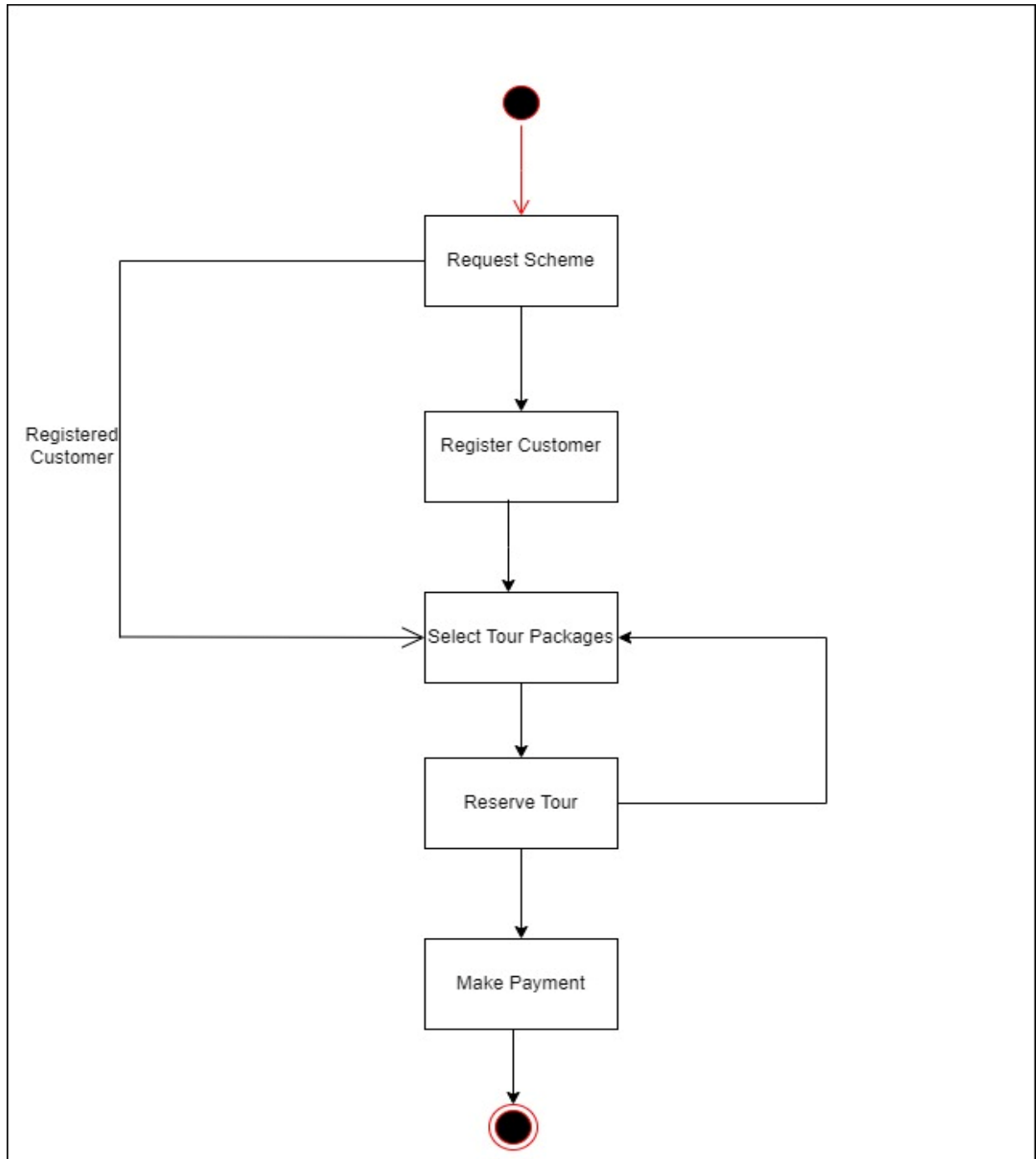
Level 0:

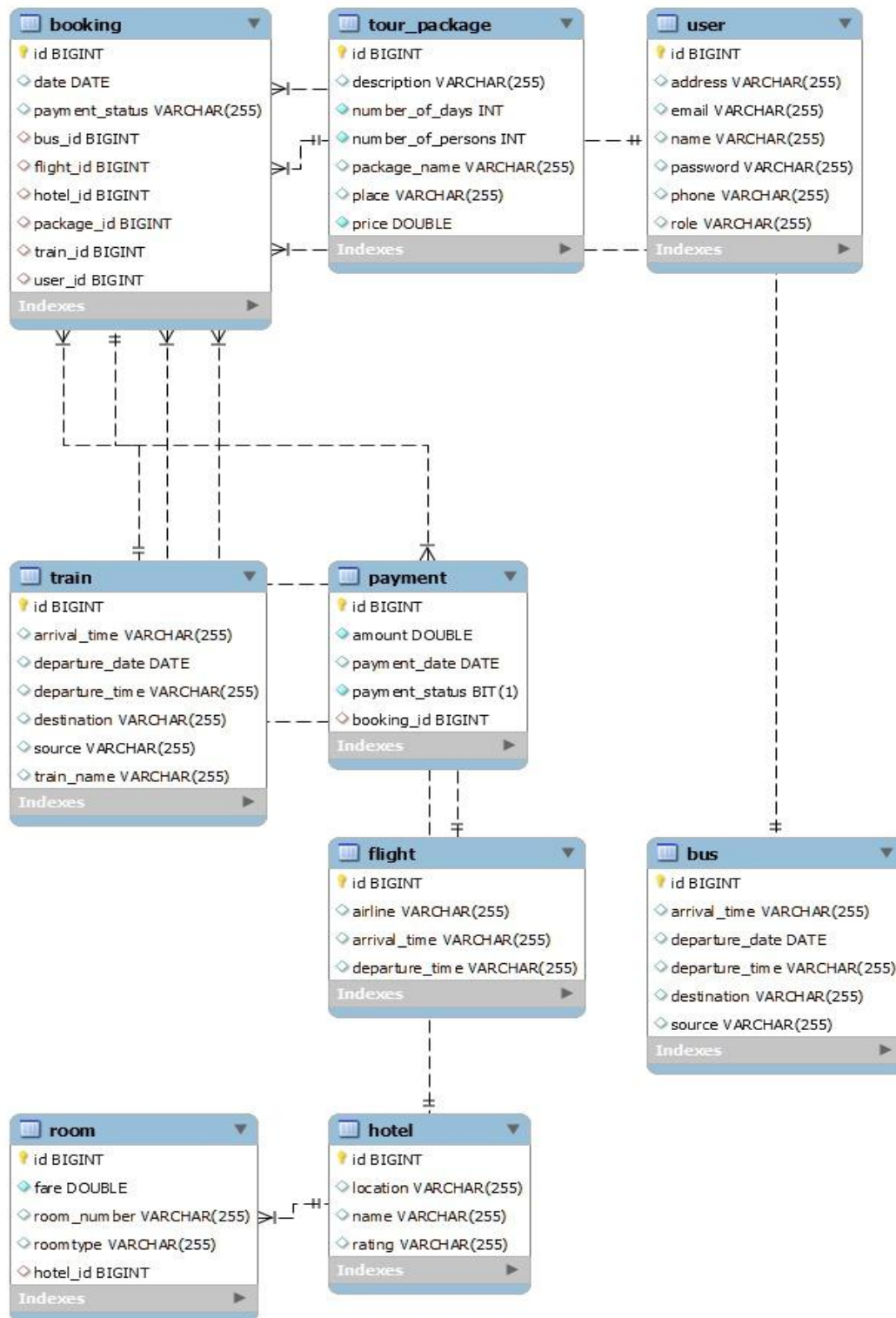


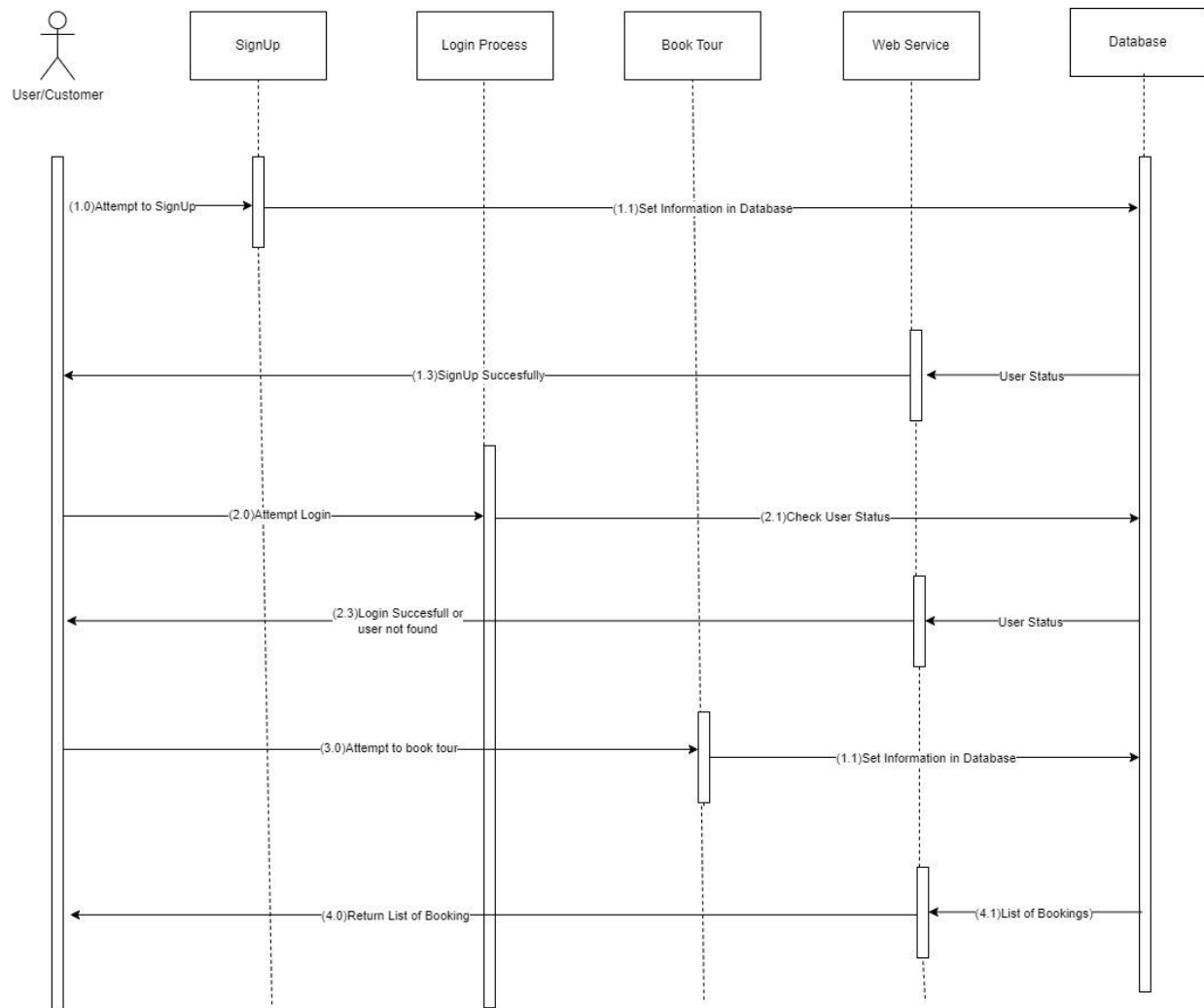
Level 1:



Admin Activity Diagram :

User Activity Diagram :

Class diagram:

Sequence diagram :

5. Testing Screenshots

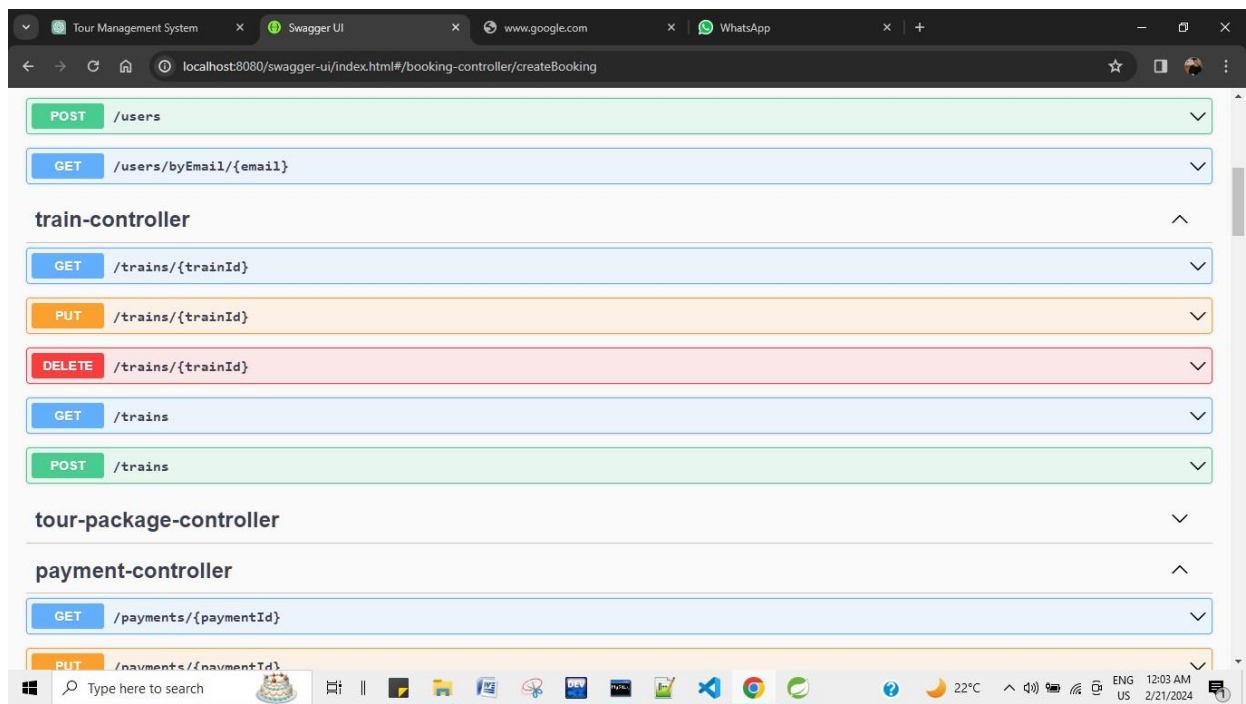
UserController:

Servers
http://localhost:8080 - Generated server url

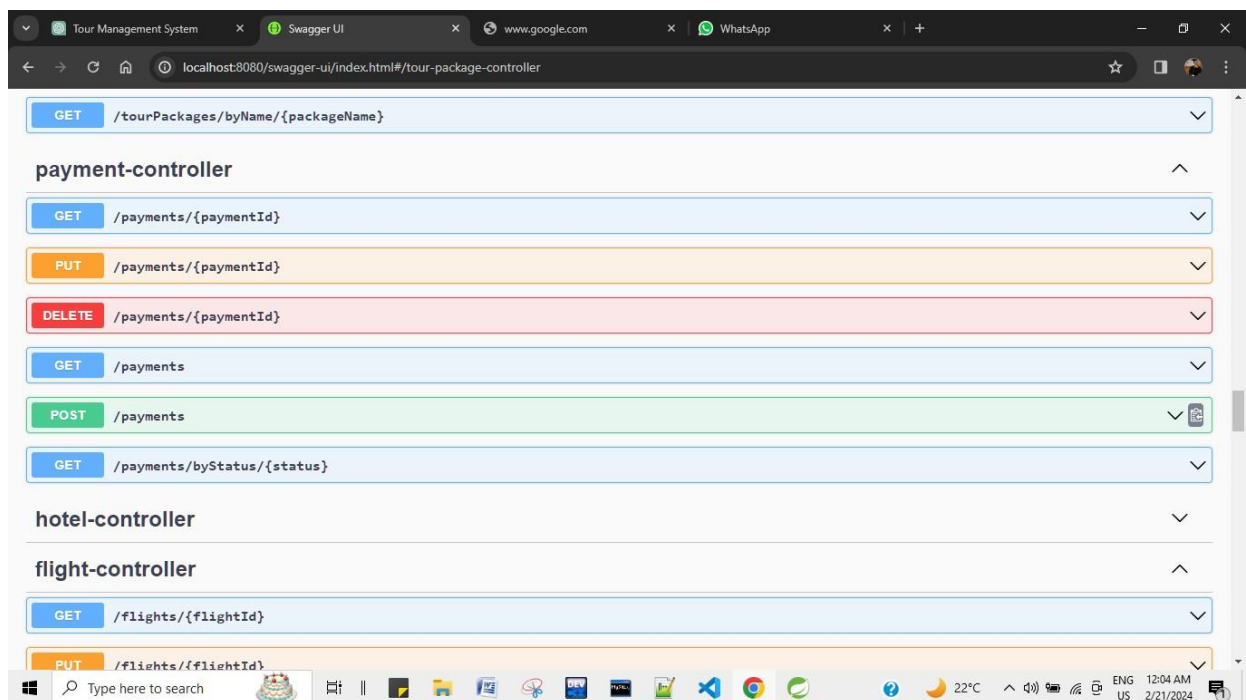
user-controller

GET	/users/{userId}
PUT	/users/{userId}
DELETE	/users/{userId}
GET	/users
POST	/users
GET	/users/byEmail/{email}

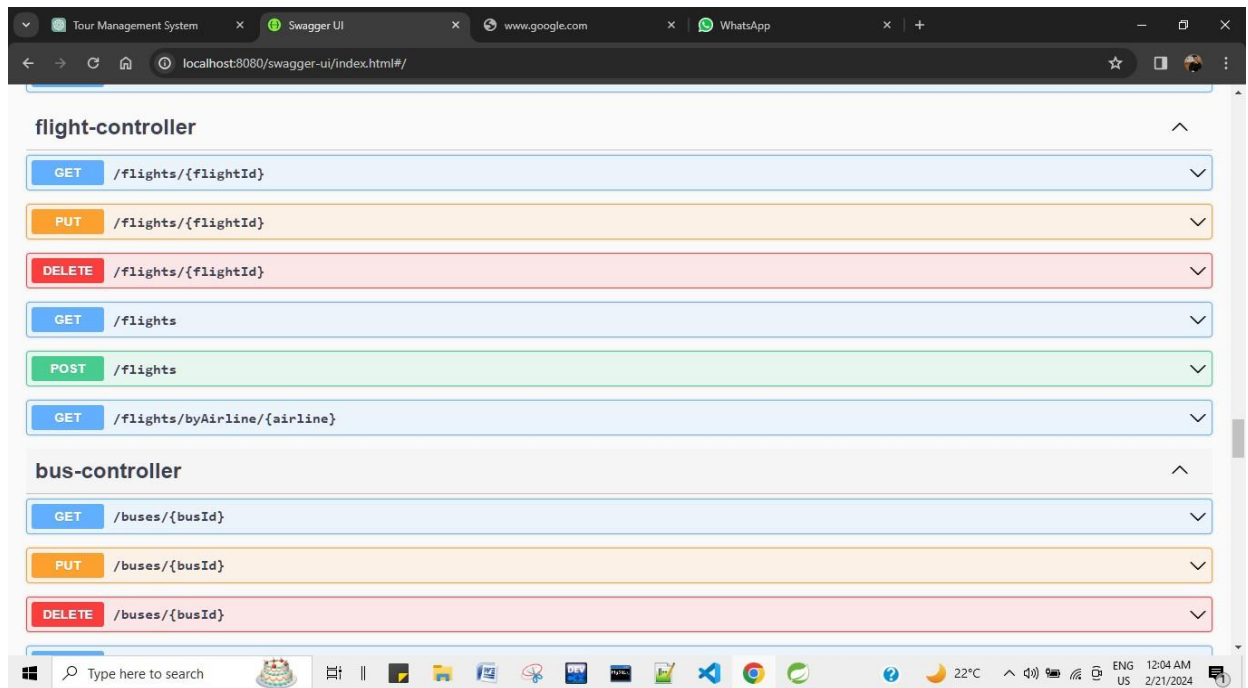
TrainController:



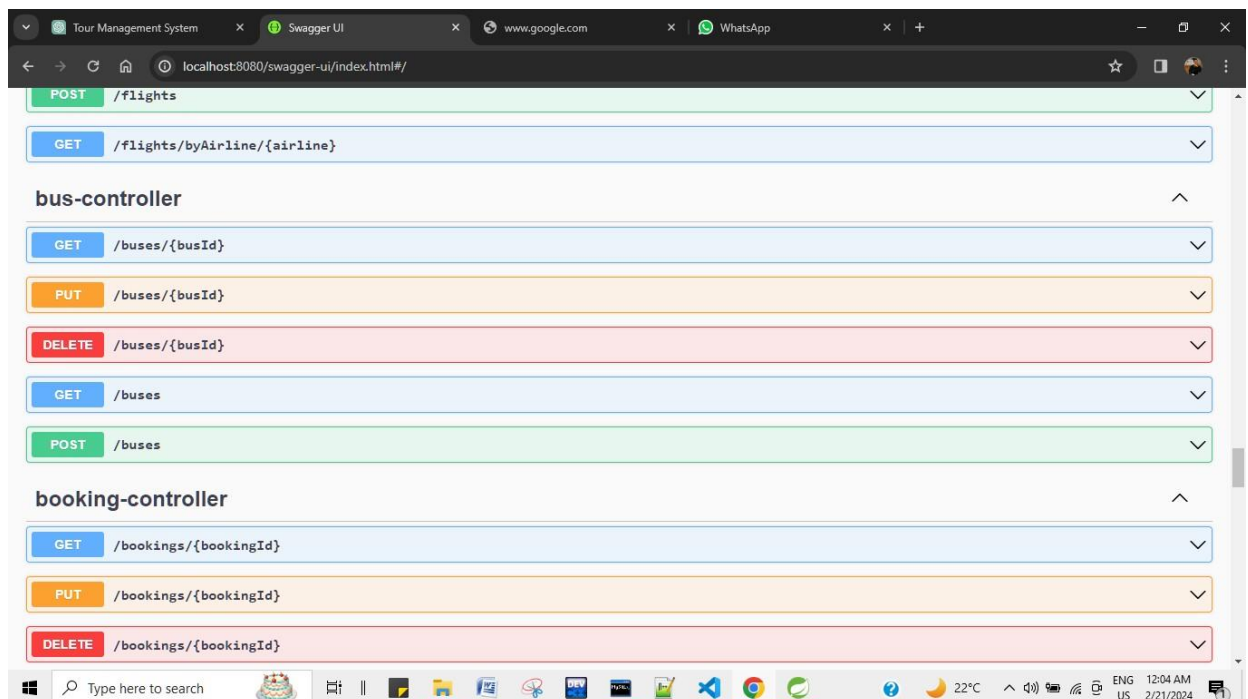
Payment Controller:



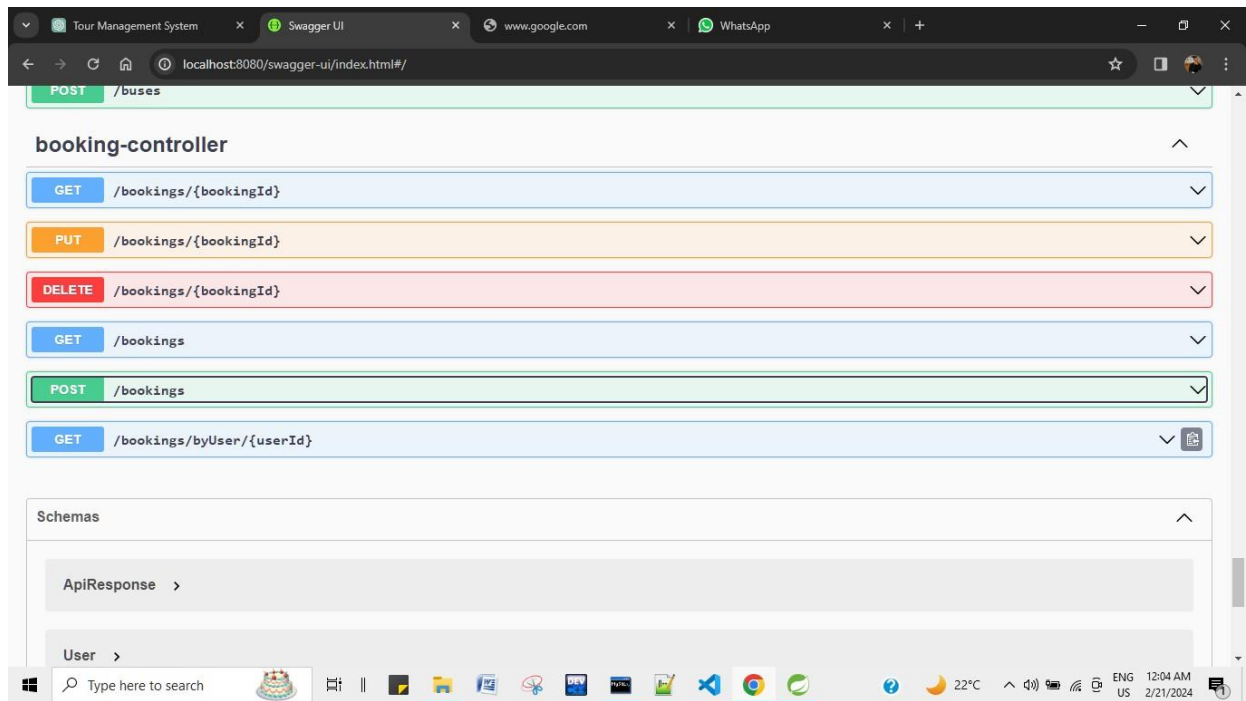
FlightController:



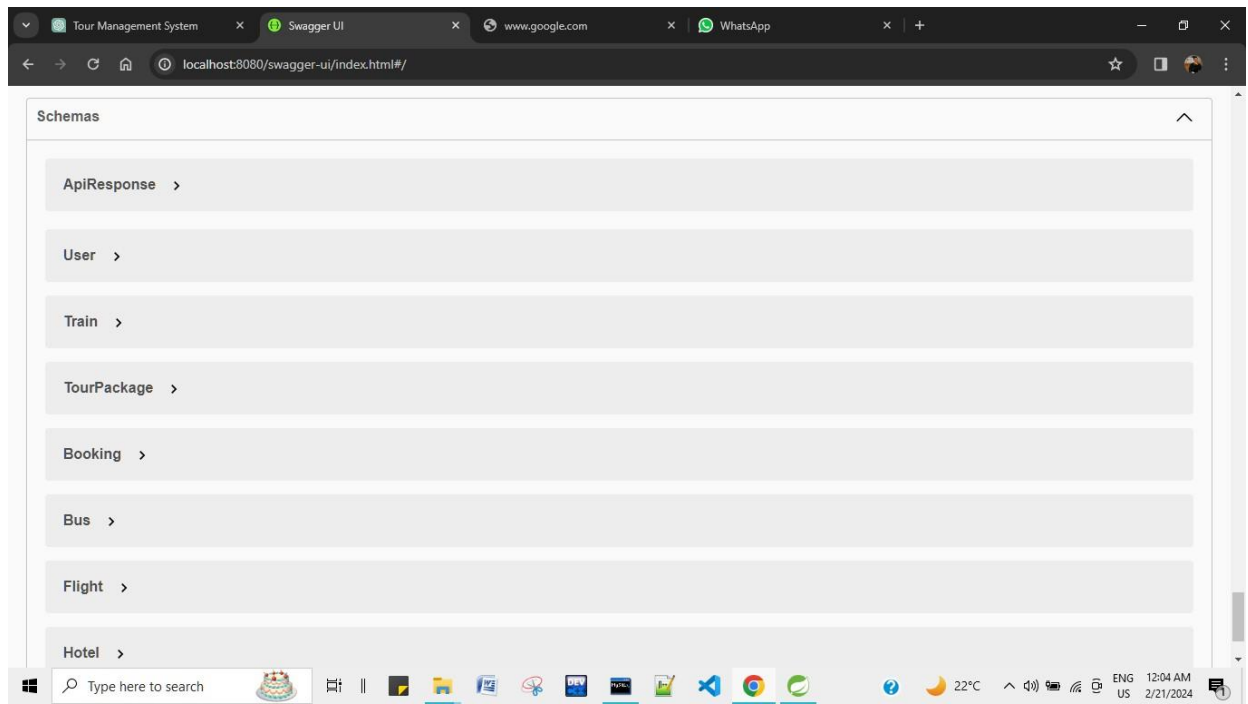
BusController:



Booking Controller:



Schemas:



FUTURE ENHANCEMENT/ CONCLUSION

FUTURE ENHANCEMENT:

- ❖ We will include more functionality as per user require.
- ❖ Multiple package can booked by one customer at a time.
- ❖ Updated feature should enhanced for all modules.
- ❖ Real-time feedback facility available on our website.
- ❖ Travels management system will try to serve all expectations.
- ❖ Not a single website is ever considering as complete forever firstly because there is always something new requirement also are growing day by day.

CONCLUSION

Here we have presented the design of a tour management system ExploreVibes that can provide the users with the required tourism guidance required anytime and anywhere. This is a combination of smartphone and Internet services. The tour management website contributes a reasonable way for the users to schedule their trips, since it provides detailed information about the tourist places including description, image. This method includes various features/services such as delivering customized packages, the distance between the source and destination location, online ticket booking, etc. This process achieves its main goal by pertaining to real-time data

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