



Project Name: Inter-city Car Pooling System
Branch PG-DAC Sept-2022

Documentation On

“Inter-city Car Pooling System”
PG-DAC MAR 2023

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1. Introduction:

1.1 Document Purpose:

This document communicates the business requirements and scope for developing Inter-city Car Pooling System. The scope of this document is to define the functional and non functional requirements, business rules and other constraints requirements.

1.2 Project Background:

There is a growing awareness of the challenges associated with individual commuting, such as increasing traffic congestion, rising fuel costs, and environmental concerns. Inefficient use of private vehicles and the lack of convenient alternatives contribute to these challenges.

1.3 Aim & Objectives:

The online carpooling system is a platform designed to connect individuals who are traveling in the same direction so they can share a ride together. It aims to provide a more sustainable and cost-effective transportation option by reducing the number of vehicles on the road and optimizing the use of existing resources.

2. Business Requirements Overview:

- Online car pooling system is the public Web Application.
- Online car pooling system will be opened to the global, but in the phase 1, the main target is in the Maharashtra .
- There are mainly two types of user. One is the **Passenger** and other is **Car owner**.
- User can find out the minimum price ride and then user can send the request to particular Car owner.
- There are mainly two types of users. One is the Car-owner and the other one is Users who get a ride with car owner .
- Online car pooling system provides the functions which connect the users and the Car owner efficiently and directly.
- Online car pooling system could be maintained by **Administrator**.

Inter-city Car Pooling system provides such functionalities through which Users can book our ride and make ride share with Car-owner who will go that direction.

3. Functional Requirements Overview:

Inter-city Car Pooling System consists of three modules described as below.

1. Car owner Module
2. Users Module
3. Admin Module

3.1 Car owner Module

- Car owner can register and create his own account.
- Car owner should be able to registered by providing their personal information, vehicle details, driving-license information and contact details.
- Car owner will have login first before the send the request.
- Inter-city Car Pooling System provides the function which allows Car owner to publish his travelling details like date, time, price and location.
- He/she is able to select existing user with their choice.
- Car owner should have the ability to set their availability by specifying their preferred routes,range of fixation of amount, timings, and the number of available seats in their vehicles.

3.2 User Module

- User can register and create his own account.
- Online car pooling system provides functionality which allows user to find out the rides where he/she wanted to go.
- User can find out the minimum price ride and then user can send the request to particular Car owner.

3.3 Admin Module

- Online car pooling system should provide all function to admin how to handle the System.
 - Admin can had a authority to accepts whole Car owner verified and Users to allow to use the system.
 - What all are the Car owner and Users using this system and are they authorized,valid actual or not all those things are checking the responsibility of admin.
 - Admin had the authority to see the worst review of the users according to that they select the Car owner disabled or blocked.
-

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
 - Users will have no limitations for accessing the application through Internet.
 - The portal being an internet application, it is difficult specify exact number of visitor or users. Hence we will target the system to support between 1 and 5 million users on launch of phase 1.
 - Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
 - The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.
-

5. Use-Case Diagram

5.1 Car Owner:

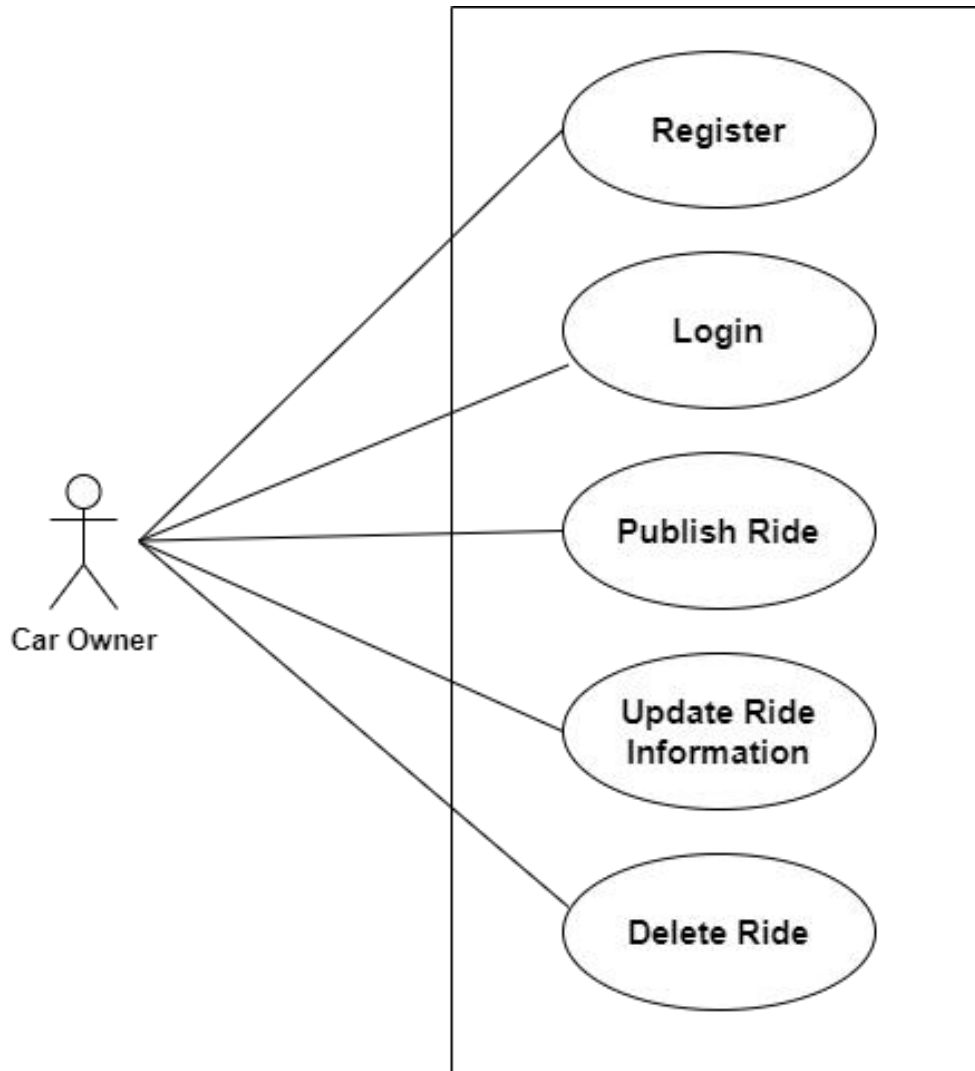


Fig. Use-Case Diagram for Car owner

5.2 User:

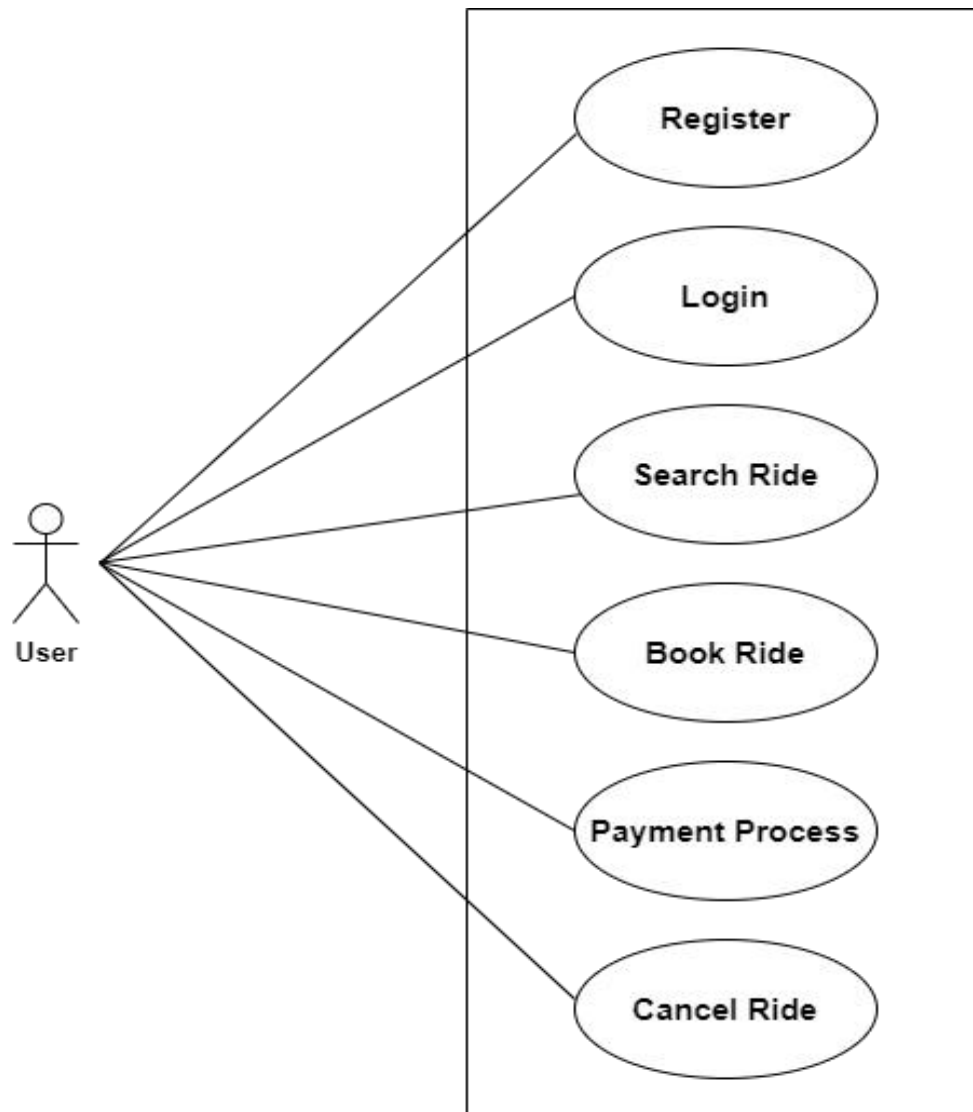


Fig. Use-Case Diagram for User

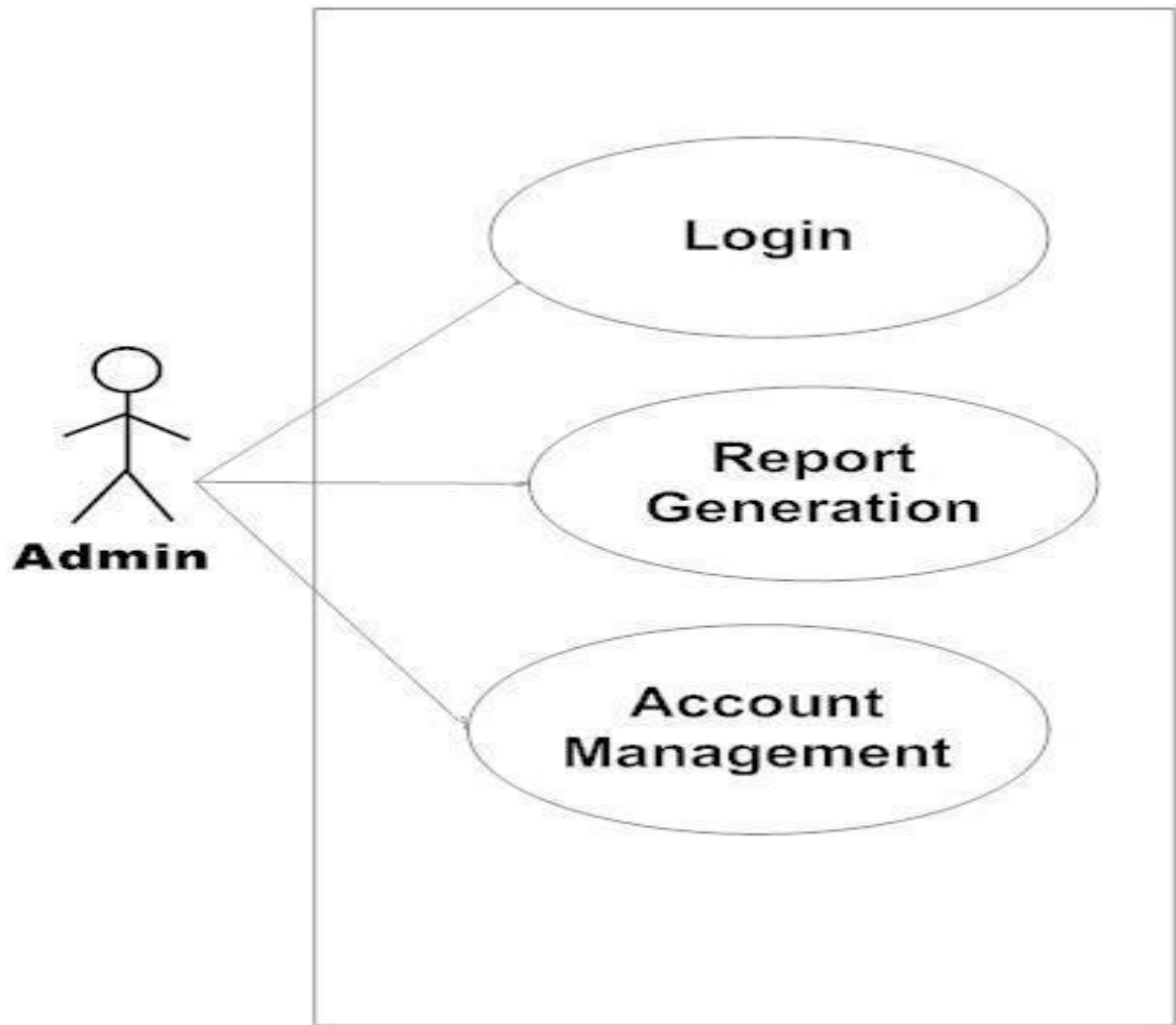
5.3 Admin:

Fig. Use-Case Diagram for Admin

6. Database Design:

1] Role

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Role ID
role	Varchar(45)	No		Null	Which type of user is enrolled.

2] Login

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Which type of user logged in
roll_id	Integer	No	Foreign key	Null	Reference to roll_id(Tbl Role)
login_id	Varchar(100)	No		Null	Login_id
password	Varchar(100)	No		Null	Password
status	Bit(1)	No		Null	Login Status

3] Users

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Car_owner/User
user_id	Integer	No	Foreign key	Null	reference to Login_id(Tbl_login)
password	Varchar(100)	No		Null	Password of user
aadhar_no	Varchar(45)	No		Null	Aadhar number of user
fname	Varchar(100)	No		Null	First name of User
lname	Varchar(100)	No		Null	Last name of User
gender	Varchar(45)	No		Null	Gender of User
dob	Date	No		Null	Date of Birth of User
licence	Varchar(45)				
phone-no	Varchar(45)	No		Null	Phone no of User
primary email	Varchar(100)	Yes		Null	email id of User for login
secondary_email	Varchar(100)	Yes		Null	Secondary email id of User

4] Co_passenger

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Co-passenger ID
passenger_id	Integer	No	Foreign key	Null	Reference to User_id (Tbl_User)
aadhar_no	Varchar(45)	Yes		Null	Aadhar no of co_passenger
phone_no	Varchar(45)	Yes		Null	Phone no of co_passenger
email	Varchar(45)	Yes		Null	Email of co_passenger
fname	Varchar(45)	No		Null	First name of co_passenger
lname	Varchar(45)	No		Null	Last name of co_passenger
Gender	Varchar(45)	No		Null	Gender of co_passenger

5] Car_company

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Admin ID
company_name	Varchar(100)	No		Null	Company name of car

6] Car_Models

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Admin ID
Company_id	Integer	No	Foreign_key	Null	Reference to Car_company_id(Tbl_Car_company)
model_name	Varchar(100)	No		Null	Model name of car
fuel_type	Varchar(100)	No		Null	Fuel type of car
model_type	Varchar(100)	No		Null	Model type of car

7] Vehicles

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Vehicle id
carowner_id	Integer	No	Foreign key	Null	Reference to Users_id(Tbl_users)
model_id	Integer	No	Foreign key	Null	Reference to Car_Model_id(Tbl_car_model_)
year	Integer	No		Null	Year of buying car
color	Varchar(45)	No		Null	Color of car
rc-book	Varchar(200)	No		Null	Registration card of car owner

8] Rides

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Ride Id
carowner_id	Integer	No	Foreign key	Null	Reference to Carowner_id(Users_Tbl)
start_Location	Integer	No	Foreign key	Null	Reference to Cid (Tbl_City)
end_Location	Integer	No	Foreign key	Null	Reference to Cid (Tbl_City)
vehicle_id	Integer	No	Foreign key	Null	Reference to Vid (Tbl_Vehicle)
time_and_date_of_departure	DateTime	No		Null	Time and date of departure
time_of arrival	datetime	No		Null	Arrival time
price_per_seat	Varchar(100)	No		Null	Price per seat amount
Available_seats	Varchar(100)	No		Null	Total available seats in car
status	Varchar(100)	Yes		Null	Ride is confirmed or not

8] Booking

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Booking ID
passenger_id	Integer	No	Foreign key	Null	Reference to passenger_id(Tbl_User)
ride_id	Integer	No	Foreign key	Null	Reference to Ride_id(Tbl_Ride)
time	DateTime	No		Null	Booking time
no_of_seats	Integer	No		Null	How many seats are booked
total_price	Integer	No		Null	Total price acc to passenger
status	Varchar(100)	No		Null	Status of booking confirmation or not

9] Payment

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	Payment ID
booking_id	Integer	No	Foreign key	Null	Reference to Booking_id(Tbl_Booking)
passenger_id	Integer	No	Foreign key	Null	Reference to passenger_id(Tbl_Co_passenger)
amount	Integer	No		Null	Total amount
Date Time	datetime	No		Null	Date and time of payment
payment_method	Varchar(45)	No		Null	Permanent method
status	Varchar(100)	No		Null	Payment is successful or not

10] State

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	State id
state	Varchar(45)	No		Null	State name

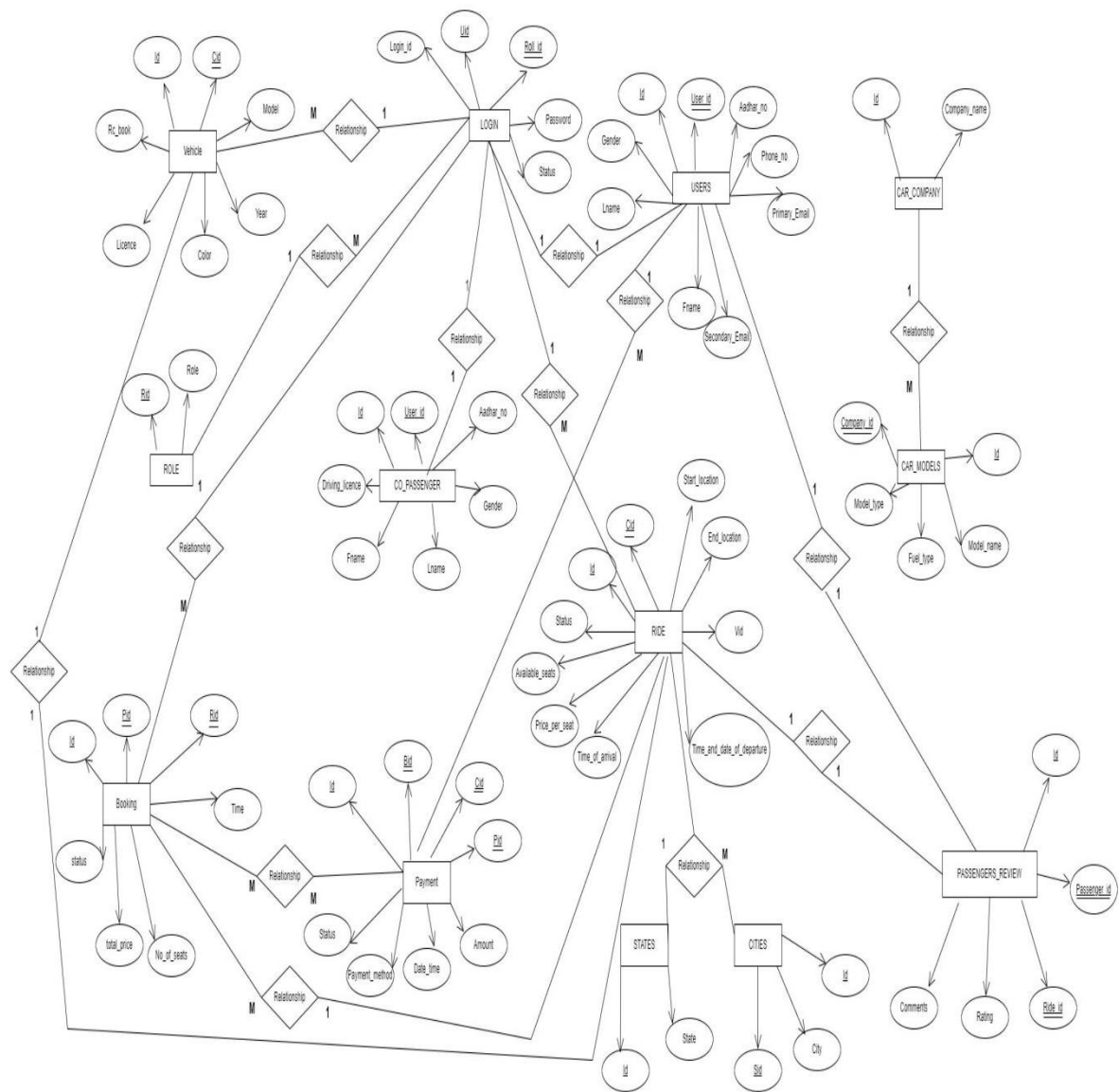
11] City

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	City id
city	Varchar(45)	No		Null	City name
state_id	Integer	No		Null	Reference to State_id(Tbl_State)

12] Passenger_review

Field	Type	Null	Key	Default	Description
id	Integer	No	Primary key	Null	City id
passenger_id	Integer	No	Foreign key	Null	Reference to User_id(Tbl_User)
ride_id	Integer	No	Foreign key	Null	Reference to Ride_id(Tbl_Ride)
rating	Decimal(3, 2)	No		Null	Rating given by user to car_owner.
comments	Varchar(45)	No		Null	Any comments.

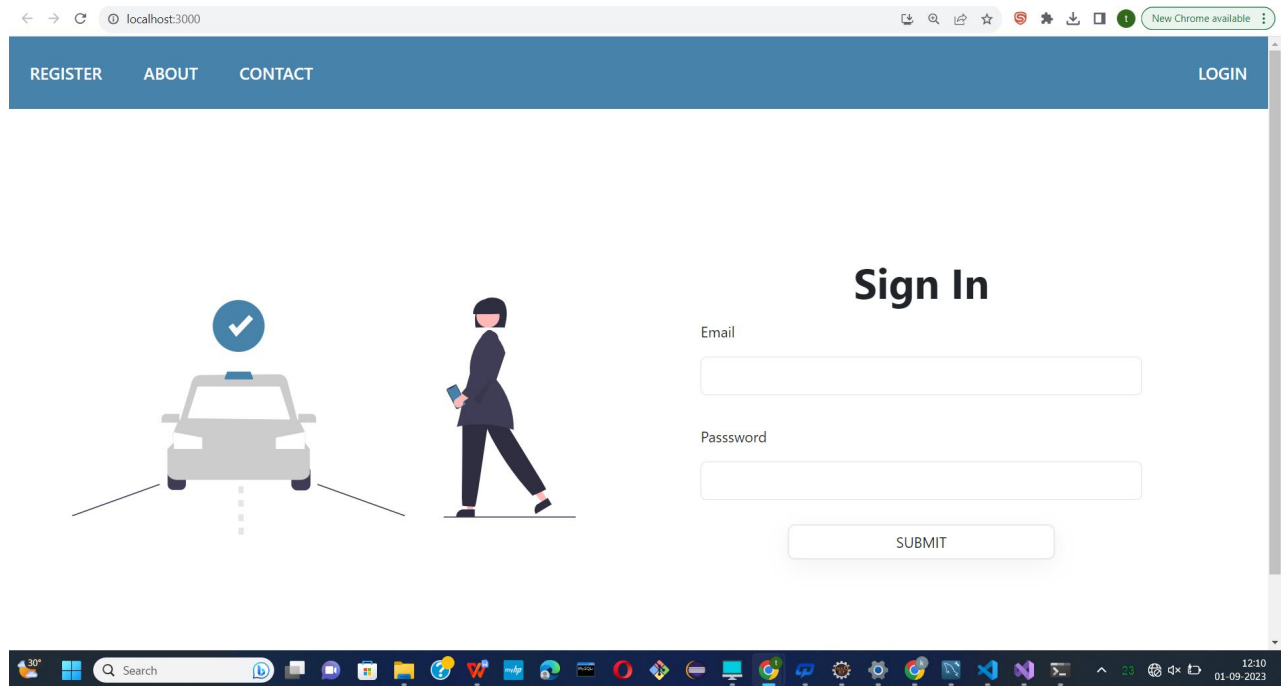
7. ER-Diagram:



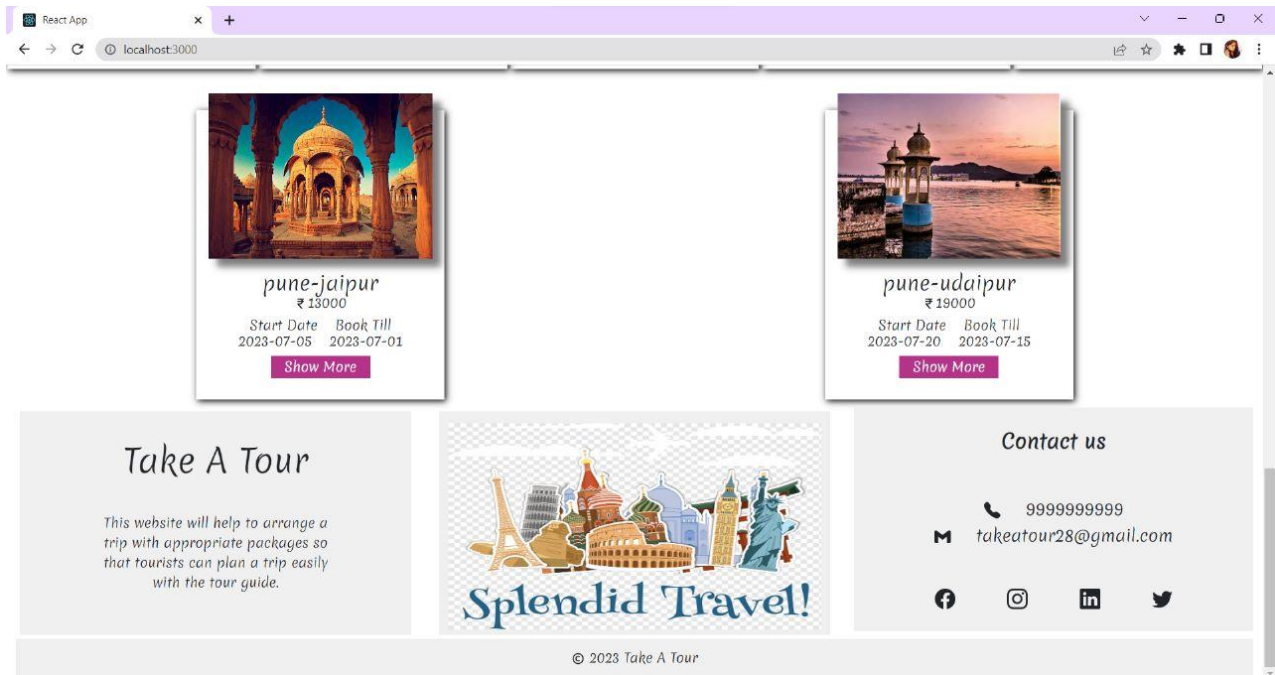
E-R diagram shows database of Inter-city Car Pooling System

8. Snapshots:

8.1 Home Page:



- Following snapshot shows the Home page of Inter-city Car Pooling System.

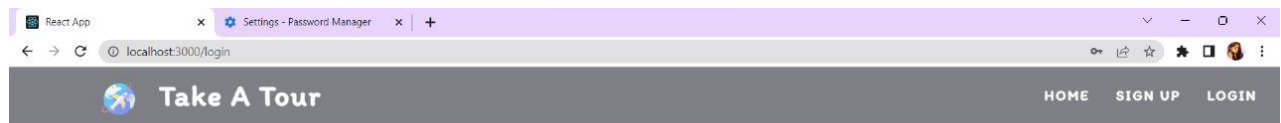


This page contains following controls

- Home
- Sign Up
- Login Button

This page also contains footer consisting information about the website and contact us details.

8.2 Login Page



Login Form

A login form with a light blue border. It contains two input fields: the first for the username 'Omkar123' and the second for the password, which is masked with dots. Below each input field is the text 'we will never share any info'. A blue 'Login' button is positioned to the right of the password field. Below the form are two buttons: 'Forgot Password' and 'Back to home'.

8.4 Admin Home Page

8.4.1 Add Employee Page

React App

Settings - Password Manager

localhost:3000/admin_home/addaccemp

Take A Tour

ADMIN-HOME ADD EMPLOYEE APPROVAL REQUEST LOGOUT

Employee Registration

user id

Password

First Name

Middle Name

Last Name

Select Gender ☐ Female ☐ Male

Birth date

Hire date

Designation

React App

Settings - Password Manager

localhost:3000/admin_home/addaccemp

Employee Registration

Adhar Number

Email

Contact

Address Line 1

District

City

Postal Code

State

Country

Choose File No file chosen

Register Reset

8.4.2 Approval Planned Tours

React App x Settings - Password Manager x +

localhost:3000/admin_home/approval

Take A Tour ADMIN-HOME ADD EMPLOYEE APPROVAL REQUEST LOGOUT

Approve Planned Tours

packagename	startdate	lastdate	availseats	lastdate_apply	packageprice	locations	Approve Tour	Reject
pune-adisha	2023-07-15	2023-07-20	35	2023-07-05	₹ 23000 /-	odisha : jagganath puri , nayagarh hubaneshwar , cuttak , sambalpur	Approve	Reject

8.5 Employee Home Page


8.5.1 Home

React App x +

localhost:3000/employee_home

Take A Tour EMPLOYEE-HOME ADD PACKAGE LOGOUT

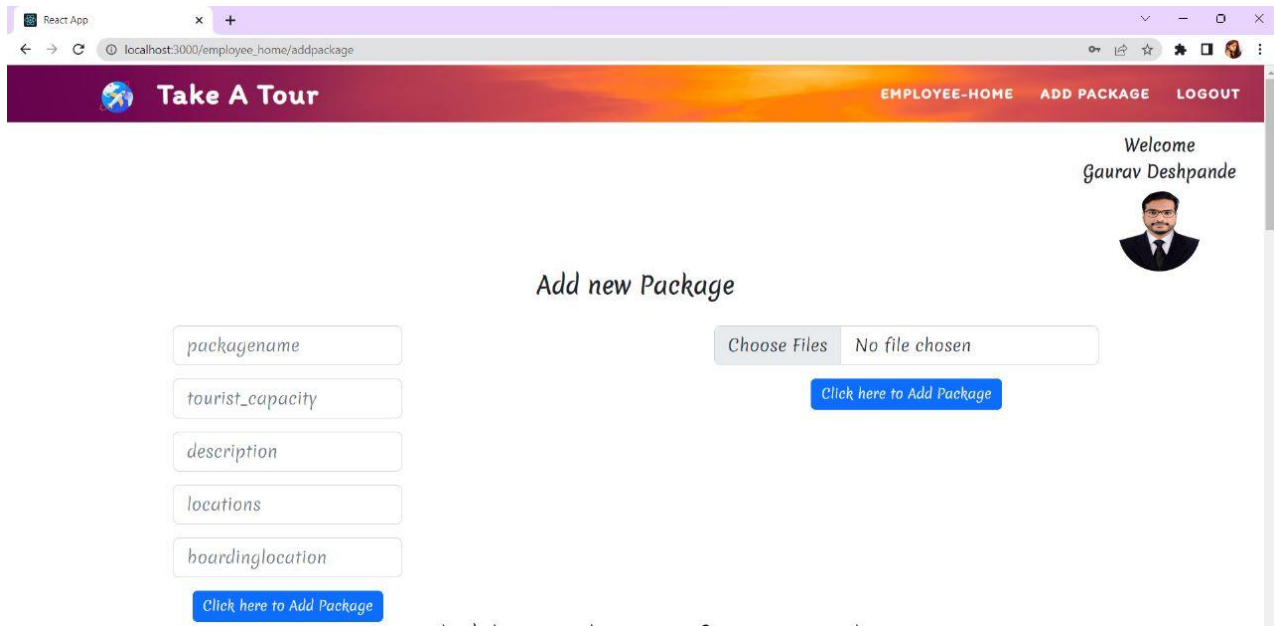
Welcome
Shweta Salunkhe



Available Packages for Tour Plan

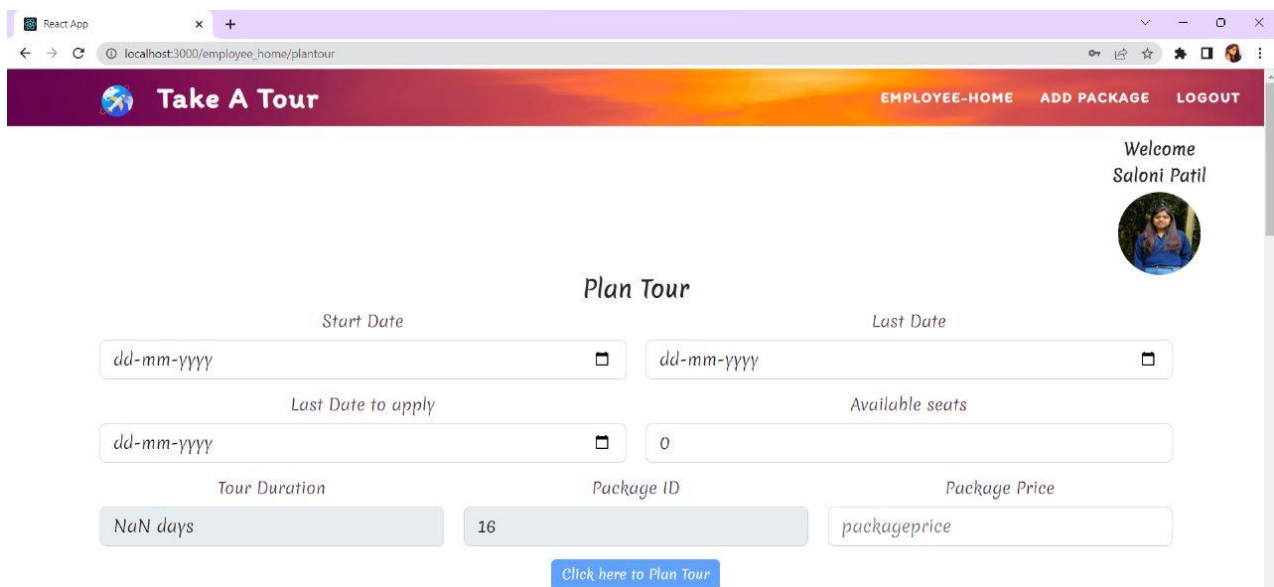
Package ID	Package Name	Tourist Capacity	Description	Boarding location	Destination	Images	Planned Tour	Delete Package
16	Pune-Munnar	20	From pristine beaches to famed wildlife reserves, Kerala offers its travellers an experience that will completely rejuvenate their mind, body and soul. While Munnar offers abundant scenic beauty, spice plantations in Thekkady lend a heady aroma of different spices. With palm-fringed backwaters and houseboat cruise, Alleppey never fails to delight anyone. All in all, Kerala marks a perfect place to relax and de-stress amidst tranquil environs.	Pune	Cochin , Munnar , Alleppey , Mattupetty Dam , Eravikulam National Park , Kerala	Show Images	Plan	Delete
			Emperor Jahangir once rightly said about Kashmir, "If there is paradise on Earth, it is this, it is this, it is this".					

8.5.2 Add Package



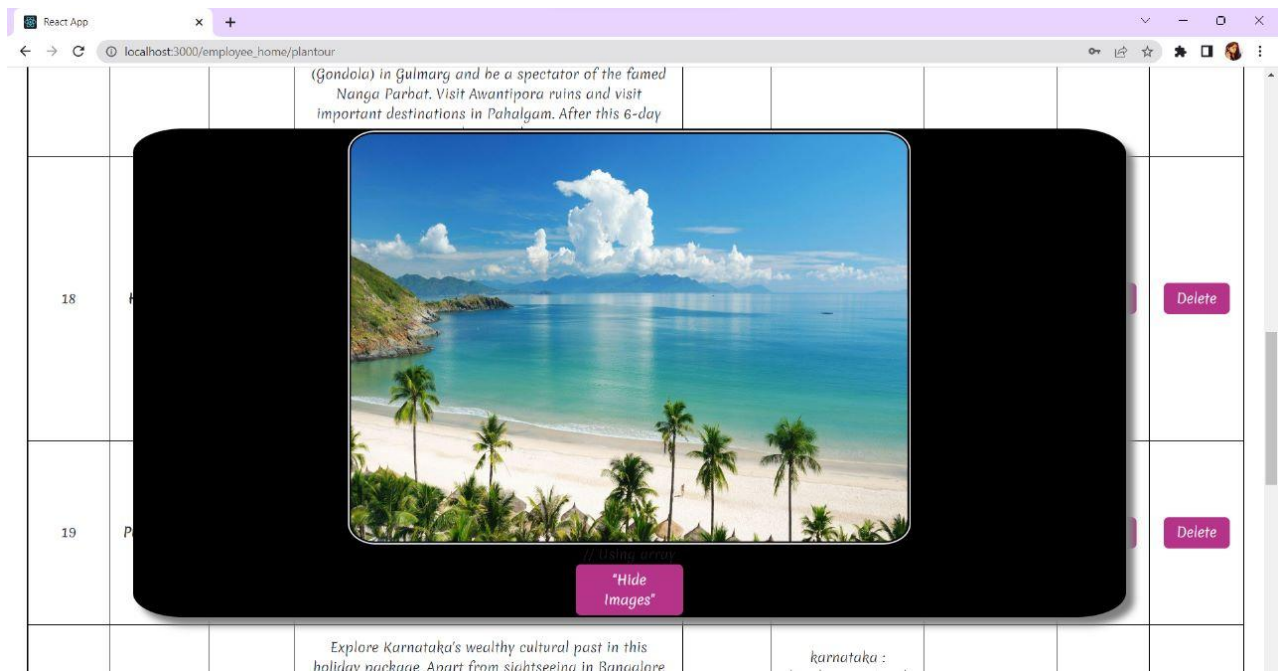
The screenshot shows a web browser window with the URL `localhost:3000/employee_home/addpackage`. The application header is a gradient bar with the logo 'Take A Tour' and navigation links: 'EMPLOYEE-HOME', 'ADD PACKAGE', and 'LOGOUT'. On the right, a user profile is displayed with the text 'Welcome Gaurav Deshpande' and a circular profile picture of a man in a suit. The main content area is titled 'Add new Package'. It contains a vertical stack of five text input fields: 'packagename', 'tourist_capacity', 'description', 'locations', and 'boardinglocation'. To the right of these fields is a file upload section with a 'Choose Files' button and a 'No file chosen' status. Below the file upload section is a blue button labeled 'Click here to Add Package'. At the bottom of the form, there is another blue button labeled 'Click here to Add Package'.

8.5.3 Plan Tour



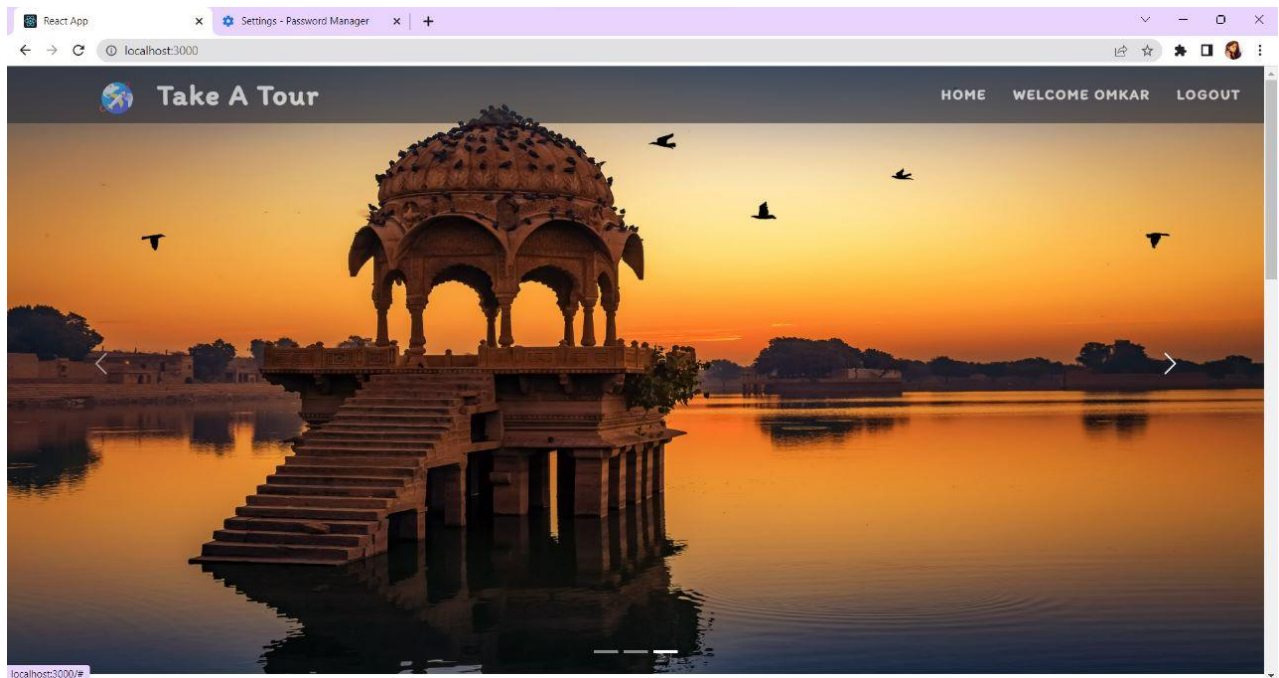
The screenshot shows a web browser window with the URL `localhost:3000/employee_home/plantour`. The application header is the same as in the previous screenshot. The user profile on the right now displays 'Welcome Saloni Patil' and a circular profile picture of a woman. The main content area is titled 'Plan Tour'. It contains several input fields: 'Start Date' (placeholder 'dd-mm-yyyy'), 'Last Date' (placeholder 'dd-mm-yyyy'), 'Last Date to apply' (placeholder 'dd-mm-yyyy'), 'Available seats' (placeholder '0'), 'Tour Duration' (placeholder 'NaN days'), 'Package ID' (placeholder '16'), and 'Package Price' (placeholder 'packageprice'). Each date field has a calendar icon. At the bottom of the form, there is a blue button labeled 'Click here to Plan Tour'.

8.5.4 Hide and Show Images

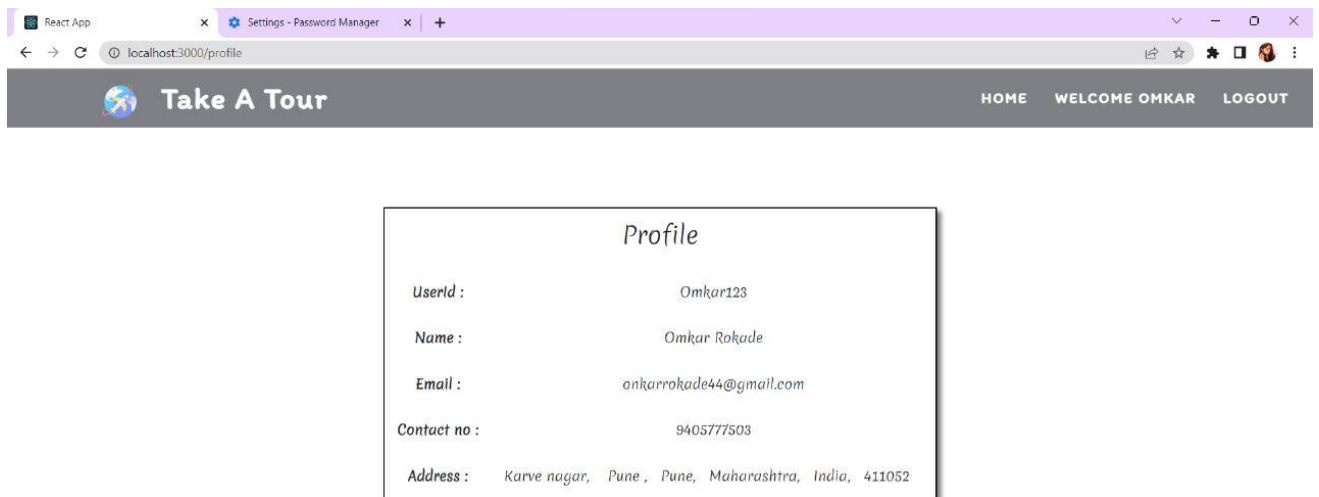


8.6 Tourist Home Page

8.6.1 Tourist Login



8.6.2 Tourist Profile

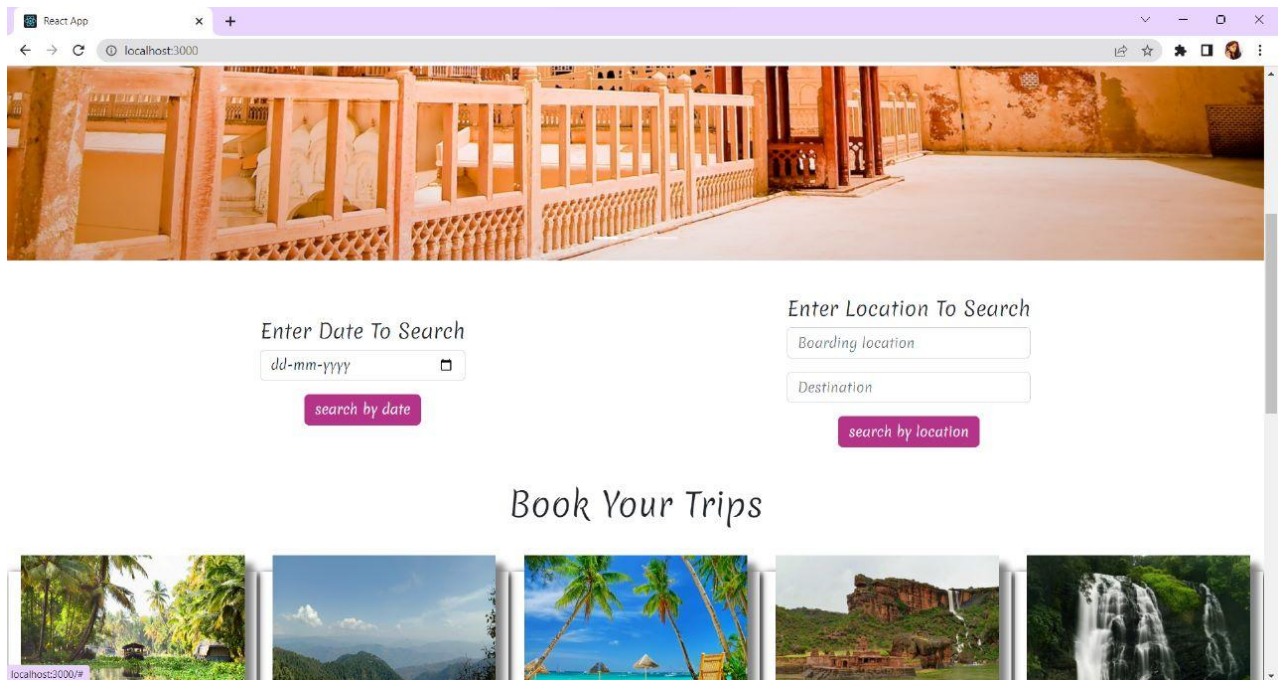


Take A Tour HOME WELCOME OMKAR LOGOUT

Profile

Userid : Omkar123
Name : Omkar Rokade
Email : onkarrokkade44@gmail.com
Contact no : 9405777503
Address : Karve nagar, Pune, Maharashtra, India, 411052

8.6.3 Search Tours by Date and Location



Take A Tour HOME WELCOME OMKAR LOGOUT

Enter Date To Search

dd-mm-yyyy

search by date

Enter Location To Search

Boarding location

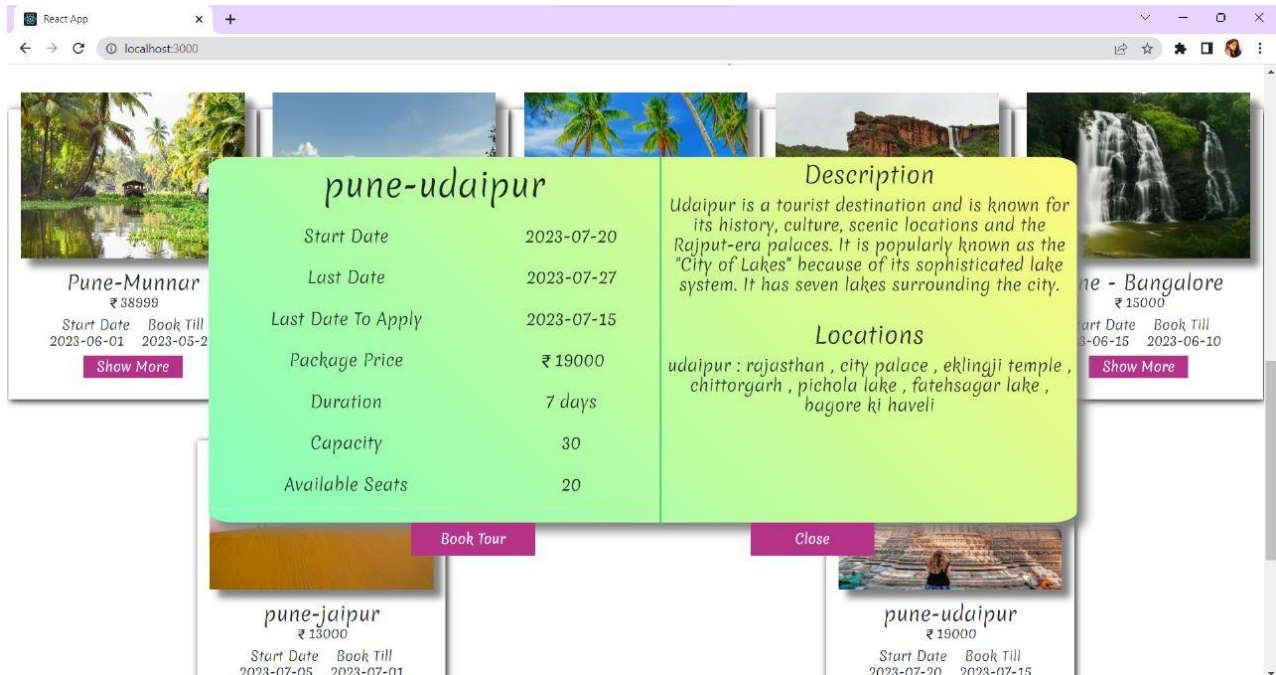
Destination

search by location

Book Your Trips

localhost:3000/#

8.6.4 Tour Description



8.6.4 Tour Booking Form

The screenshot shows a web application interface for booking a tour. The header includes a logo and navigation links: HOME, WELCOME OMKAR, LOGOUT.

Your Info

Name :	Omkar Rokade
Contact :	9405777503
Email :	onkarrokade44@gmail.com

Mumbai - Kashmir

Enter number of traveller :	1
Total Amount :	₹ 14650 /-

Payment Process

Select Payment Type :	Payment Type
Book	reset

Traveller Form

Enter First Name :	first name
Enter Last Name :	last name
Select Gender:	<input type="radio"/> Female <input type="radio"/> Male
Select Birthdate :	dd-mm-yyyy
Submit	reset

Order Invoice

Buttons: get Invoice

React App

localhost:3000/booktour

Take A Tour

HOME WELCOME OMKAR LOGOUT

Your Info

Name : Omkar Rokade

Contact : 9405777503

Email : onkarrokade44@gmail.com

Mumbai - Kashmir

Enter number of traveller : 1

Total Amount : ₹ 14650 /-

Payment Process

Select Payment Type : Payment Type

Book reset

Traveller Form

Enter First Name : first name

Enter Last Name : last name

Select Gender: ☐ Female ☐ Male

Select Birthdate : dd-mm-yyyy

Submit reset

get Invoice

Order Invoice

React App

localhost:3000/booktour

Take A Tour

HOME WELCOME OMKAR LOGOUT

Your Info

Name : Omkar Rokade

Contact : 9405777503

Email : onkarrokade44@gmail.com

Mumbai - Kashmir

Enter number of traveller : 2

Total Amount : ₹ 29300 /-

Payment Process

Select Payment Type : UPI

Book reset

Traveller Form

Enter First Name : Yuvraj

Enter Last Name : Bhade

Select Gender: ☐ Female ☒ Male

Select Birthdate : 01-01-1996

Submit reset

get Invoice

Order Invoice

Order Id is : 85 Transaction Id is : 87

Paid Amount : 29300 /- Tour Booked for 2 Traveller

Enjoyy Your Trip ...

8. CONCLUSION AND FUTURE SCOPE

Carpooling is the sharing of car journeys so that more than one person travels in a car, and prevents the need for others to have to drive to a location themselves with own car.

Reduce traffic congestion – The benefits of carpooling on a large scale are huge.

The software is flexible enough to be modified and implemented as per future requirements.

We have tried our best to present this free and user–friendly website to Society.
