Project team :

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Project Name :

Travel App

Section : (3)

Description

A travel application is a software program designed to assist users in planning, organizing, and executing various aspects of their travel experiences.

travel application aims to simplify the travel planning process, enhance the travel experience, and provide users with the necessary tools and information to make their trips enjoyable, memorable, and hassle-free.

User Story

As a frequent traveler, I want to use a travel application that helps me plan my trips efficiently, so that I can discover new destinations, book accommodations, manage my itinerary, and navigate seamlessly during my travels.

:User Registration and Profile Setup .1

- As a new user, I want to be able to sign up for an account easily using my email or social media credentials.

- Once registered, I should be able to set up my profile by providing basic information such as my name, contact details, and travel preferences.

:Destination Discovery .2

- The application should provide a user-friendly interface for discovering popular destinations, attractions, and activities worldwide.

- Users should be able to search for destinations based on criteria such as location, budget, type of activities, and travel dates.

- The application should also offer personalized recommendations based on past travel history and preferences.

:Trip Planning and Itinerary Management .3

Users should be able to create and manage their trip itineraries easily - .within the application
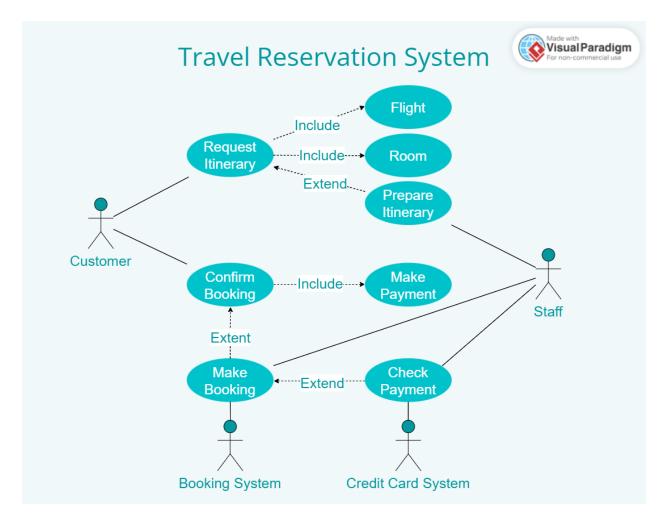
,The itinerary should include details such as flights, accommodations - .activities, transportation, and any other bookings

Users should be able to customize their itinerary by adding or removing - .activities, adjusting timings, and adding personal notes
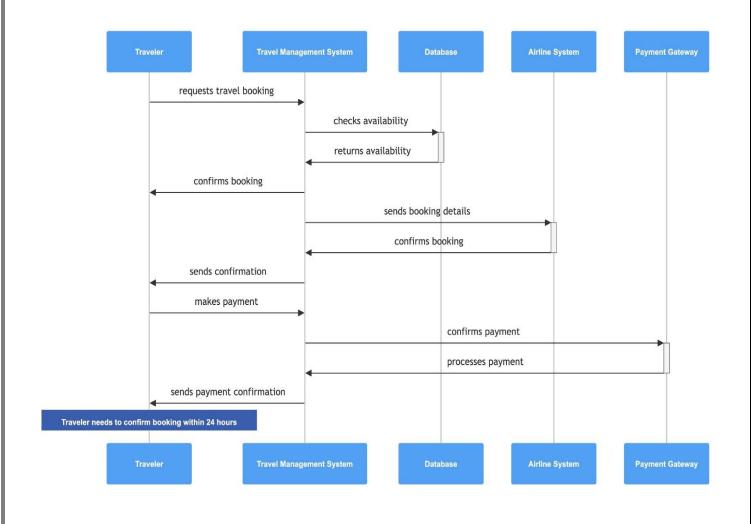
:Booking and Reservation .4

The application should allow users to book

Usecase digram

Sequance digram

Traveler	Travel Management System	Database	Airline System	Payment Gateway

Traveler → Travel Management System: requests travel booking

Travel Management System → Database: checks availability

Database → Travel Management System: returns availability

Travel Management System → Traveler: confirms booking

Travel Management System → Airline System: sends booking details

Airline System → Travel Management System: confirms booking

Travel Management System → Traveler: sends confirmation

Traveler → Travel Management System: makes payment

Travel Management System → Payment Gateway: confirms payment

Payment Gateway → Travel Management System: processes payment

Travel Management System → Traveler: sends payment confirmation

Traveler needs to confirm booking within 24 hours

Traveler	Travel Management System	Database	Airline System	Payment Gateway

Class Digram

TEAM TUF
CLASS DIAGRAM

Employee
+ employee_id: int
+ role: string
+ employee_name: string
+addPackage()
+editPackage()
+deletePackage()
+confirmBooking()
+assignEmployeeToBooking()

Customer
+customer_id: int
+customer_name: string
+customer_mobile: string
+customer_email: string
+customer_address: string
+customer_username: string
+customer_password: string
+addCustomer()
+deleteCustomer()
+editCustomer()
+searchCustomer()

User
-user_id: int
-user_role_id: int
-user_name: string
-user_email: string
-user_dob: date
-user_address: string
+addUser()
+deleteUser()
+editUser()
+searchUser()

TourPackage
+packageId: int
+name: string
+description: string
+price: double
+duration: int
+destinations: List<String>
+availableSeats: int
+calculatePrice()
+getPackageDetails()
+checkAvailability()
+updateAvailability()

Review
-reviewId: int
-rating: int
-comment: string
-customer: string
-tourPackage: string
+submitReview()

Booking
+booking_id: int
+booking_type: string
+booking_description: string
+booking_title: string
+booking_hotel_id: int
+booking_date: date
+addBooking()
+editBooking()
+deleteBooking()
+searchBooking()

Flight
-flight_id: int
-airline: string
-departure: string
-destination: string
-departure_time: date
-duration: int
-availableSeats: int
+checkAvailability()
+updateAvailability()

Payment
-paymentId: int
-paymentAmount
-paymentDate
-paymentCustomerId
-paymentDescription
+processPayment()
+generateReceipt()
+deletePayment()
+searchPayment()

Hotel
-hotelId: int
-hoteladdress: string
-hotelRent: string
-hotelName: string
-availableRooms: int
+checkAvailability()
+updateAvailability()
+searchHotel()

Cab
-cabId: int
-cab_type: string
-capacity: int
-availability: boolean
-cab_name: string
+checkAvailability()
+updateAvailability()

helps
manages
manages
has
writes
makes
has
contains
contains
uses
books
has