Poster for Traveller Planner Project

Title: Traveller Planner: An Intelligent Trip Management System

Problem Statement:

The Traveller Planner is designed to assist users in organizing and managing their travel itineraries, destinations, and accommodations efficiently. With an ever-increasing number of travel options and destinations, users face difficulty in keeping track of various bookings, destinations, and schedules. This project provides a seamless solution for creating and managing travel plans, reminding users of key trip events, and exporting itineraries for offline use.

4 Algorithm Overview:

1. User Authentication:

- o User Login/Registration
- o Password Encryption and Validation

2. Destination Search and Itinerary Generation:

- o Input: User preferences (location, travel dates, interests)
- o Process: Search relevant destinations, fetch information via API
- o Output: Suggested destinations and itinerary plan

3. Accommodation Booking Management:

- o Input: Accommodation preferences (hotel type, budget, proximity)
- o Process: Fetch available accommodations via APIs (optional integration)
- o Output: Confirmed accommodation booking

4. Reminder Setup and Notification:

- o Input: User trip dates and events
- o Process: Schedule reminder notifications
- Output: Send trip reminders

5. Trip Summary and Export:

- o Input: Finalized trip plan
- o Process: Generate PDF with itinerary and accommodation details
- o Output: Downloadable trip summary file

Dataset Authentication:

• Data Sources:

- Destination data will be sourced from APIs like Google Places, TripAdvisor, or any open-source travel database.
- User data (email, personal details) will be securely stored and authenticated using industry standards such as **OAuth** or **JWT** (**JSON Web Tokens**).

• Security Measures:

- o **Hashing and Encryption** for sensitive user information.
- o **SSL/TLS** for secure communication between the application and servers.
- Data Validation and access control to ensure the integrity and privacy of user data.

Expected Output:

1. Seamless Travel Planning:

Users will be able to search destinations, create itineraries, and manage bookings all in one place.

2. Personalized Itinerary Generation:

 Customized travel plans based on user preferences for destinations, dates, and accommodation.

3. PDF Export:

 Final trip plan, including all destinations, travel dates, and accommodation details, will be exportable as a well-formatted PDF.

MEMBERS:

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