**ERD Entities and their attributes**  
User

- User ID (Primary Key)

- Name

- Email

- Password

Profile

- Profile ID (Primary Key)

- User ID (Foreign Key to User)

- Budget

TravelPreferences

- Preferences ID (Primary Key)

- Profile ID (Foreign Key to Profile)

- Preferred Activities

- Climate Preferences

- Travel Dates

Destination

- Destination ID (Primary Key)

- Name

- Description

- Region

- Climate

- Safety Level

Attraction

- Attraction ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Name

- Description

ClimateData

- Climate Data ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Average Temperature

- Precipitation

- Season

LocalCustoms

- Customs ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Customs Description

Accommodation

- Accommodation ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Name

- Type

- Description

Transportation

- Transportation ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Type

- Description

SafetyGuidelines

- Safety ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Safety Description

Interface

- Interface ID (Primary Key)

- User ID (Foreign Key to User)

SocialMediaPlatform

- Platform ID (Primary Key)

- Name

- URL

WeatherAPI

- API ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- API Key

Budget

- Budget ID (Primary Key)

- User ID (Foreign Key to User)

- Estimated Amount

Expense

- Expense ID (Primary Key)

- Budget ID (Foreign Key to Budget)

- Category

- Amount

Review

- Review ID (Primary Key)

- User ID (Foreign Key to User)

- Destination ID (Foreign Key to Destination)

- Comment

Rating

- Rating ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Average Rating

- Total Reviews

Itinerary

- Itinerary ID (Primary Key)

- User ID (Foreign Key to User)

- Start Date

- End Date

Activity

- Activity ID (Primary Key)

- Name

- Description

TravelTip

- Tip ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Tip Description

PackingList

- Packing List ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Item

LanguageGuide

- Language Guide ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Language

- Guide Description

**Many-to-Many Relationships**

UserDestination

- UserDestination ID (Primary Key)

- User ID (Foreign Key to User)

- Destination ID (Foreign Key to Destination)

UserActivity

- UserActivity ID (Primary Key)

- User ID (Foreign Key to User)

- Activity ID (Foreign Key to Activity)

UserLanguageGuide

- UserLanguageGuide ID (Primary Key)

- User ID (Foreign Key to User)

- Language Guide ID (Foreign Key to LanguageGuide)

UserSocialMedia

- UserSocialMedia ID (Primary Key)

- User ID (Foreign Key to User)

- Platform ID (Foreign Key to SocialMediaPlatform)

DestinationPackingList

- DestinationPackingList ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Packing List ID (Foreign Key to PackingList)

DestinationTravelTip

- DestinationTravelTip ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Travel Tip ID (Foreign Key to TravelTip)

DestinationActivity

- DestinationActivity ID (Primary Key)

- Destination ID (Foreign Key to Destination)

- Activity ID (Foreign Key to Activity)

Relationship

* User to Profile: One-to-One
* User to Interface: One-to-One
* User to Budget: One-to-Many
* User to Review: One-to-Many
* User to Itinerary: One-to-Many
* Profile to TravelPreferences: One-to-One
* Destination to Attraction: One-to-Many
* Destination to ClimateData: One-to-One
* Destination to LocalCustoms: One-to-Many
* Destination to Accommodation: One-to-Many
* Destination to Transportation: One-to-Many
* Destination to SafetyGuidelines: One-to-Many
* Destination to WeatherAPI: One-to-One
* Budget to Expense: One-to-Many
* Destination to Review: One-to-Many
* Destination to Rating: One-to-One
* Destination to TravelTip: One-to-Many
* Destination to PackingList: One-to-Many
* Destination to LanguageGuide: One-to-Many

User Profile Creation: Users can create personalized profiles by providing information about their travel preferences, including activities, budget, climate preferences, and travel dates.

Destination Database: A comprehensive database of travel destinations will be built, including information about popular attractions, climate data, local customs, accommodation options, transportation, safety guidelines, and weather integration.

Recommendation Engine: The application will incorporate a recommendation engine that utilizes machine learning algorithms to match user profiles with suitable travel destinations based on their preferences and provide personalized recommendations.

Interactive Interface: The application will have an interactive and user-friendly interface where users can explore recommended destinations, view detailed information about each location, and save their favorite choices.

Reviews and Ratings: Users will be able to leave reviews and ratings for the destinations they have visited, providing valuable feedback and insights for other users.

Trip Planner: The application will include a trip planning feature that allows users to create itineraries, add activities, and customize their travel plans. Users can save and share their itineraries with others.

Social Integration: The application will integrate social features, enabling users to connect with friends, view their travel recommendations, and share their travel experiences on social media platforms.

Weather Integration: Real-time weather information will be integrated into the application, providing users with up-to-date weather forecasts for their chosen destinations to help them plan their trips accordingly.

Budget Management: The application will incorporate a budget management feature, allowing users to estimate and track their expenses for transportation, accommodation, activities, and food.

Travel Tips and Guides: The application will provide travel tips, packing lists, language guides, and safety tips for each recommended destination, assisting users in their travel preparations.

The scope of the application focuses on providing users with a comprehensive and personalized travel experience, including destination recommendations, trip planning tools, social interaction, budget management, and useful travel information.

Top of Form

Milestone

project title

- project scope

- functional requirements

- erd

- class diagram

- group members details

- group leader

- milestone (divide your project into sub modules with completion date.)