Schema Diagram

Attributes and entities:

1. **User and Authentication**
   - *UserID(pk)*
   - *Name*
   - *Email*
   - *Password*
   - *Phonenumber*
   - *ProfilePicture*

2. **Itinerary and trip Planning**
   - *ItineraryID (Primary Key)*
   - *UserID (Foreign Key)*
   - *Destination*
   - *StartDate*
   - *EndDate*
   - *TransportDetails*
   - *HotelDetails*
   - *MealRecommendations*
   - *CostBreakdown*

3. **Map**
   - *MapID (Primary Key)*
   - *LocationName*
   - *Coordinates*
   - *ActivityFilters (e.g., restaurants, services)*
   - *Directions*

4. **Weather**
   - *WeatherID (Primary Key)*
   - *LocationID (Foreign Key)*
   - *ForecastDate*
   - *Temperature*
   - *WeatherCondition*
   - *SevereWeatherAlerts*
   - *PackingSuggestions*

5. **Photo**
   - *PhotoID (Primary Key)*
   - *UserID (Foreign Key)*
   - *UploadDate*
   - *Caption*
   - *StoragePath*

6. **Blog**
   - *BlogID (Primary Key)*
   - *UserID (Foreign Key)*
   - *Title*
   - *Content*
   - *CreationDate*
   - *Photos (Foreign Key to Photo)*

7. **Message**
   - *MessageID (Primary Key)*
   - *SenderID (Foreign Key to User)*
   - *ReceiverID (Foreign Key to User)*
   - *Timestamp*
   - *Content*
   - *GroupID (Optional for group chats)*

8. **Expense**
   - *ExpenseID (Primary Key)*
   - *UserID (Foreign Key)*
   - *Category (e.g., transport, food, accommodation)*
   - *Amount*
   - *Date*
   - *Description*

9. **EmergencyContact**
   - *ContactID (Primary Key)*
   - *LocationID (Foreign Key)*
   - *ContactType (e.g., embassy, medical)*
   - *Name*
   - *PhoneNumber*
   - *Address*

10. **LocalEvent**
    - *EventID (Primary Key)*
    - *LocationID (Foreign Key)*
    - *EventName*
    - *EventDate*

- ● *EventType (e.g., festival, concert)*
- ● *Description*

11. LanguageTranslation
- ● *TranslationID (Primary Key)*
- ● *UserID (Foreign Key)*
- ● *OriginalText*
- ● *TranslatedText*
- ● *TranslationDate*
- ● *LanguageFrom*
- ● *LanguageTo*

Relationships

1. User ↔ Itinerary: One-to-Many (A user can have multiple itineraries).

2. User ↔ Photo: One-to-Many (A user can upload multiple photos).

3. User ↔ Blog: One-to-Many (A user can create multiple blogs).

4. User ↔ Expense: One-to-Many (A user can log multiple expenses).

5. User ↔ Message: Many-to-Many (Users can send/receive multiple messages).

6. Itinerary ↔ Map: One-to-One (Each itinerary is linked to a map).

7. Map ↔ Weather: One-to-Many (A location on the map can have multiple weather forecasts).

8. Map ↔ LocalEvent: One-to-Many (A location can have multiple events).

9. User ↔ LanguageTranslation: One-to-Many (A user can perform multiple translations).

10. User ↔ EmergencyContact: One-to-Many (A user can access multiple emergency contacts).

ER- Diagram :

Itinerary

Pk	ItineraryID
Fk	UserID
	Destination
	StartDate
	EndDate
	TransportDetails
	HotelDetails
	MealRecommendatons
	Cost Breakdown

Message

PK	MessageID
Fk	SenderID
Fk	RecieverID
	TimeStamp
	Content
	GroupID(optional for groupchats)

Expense

PK	ExpenseID
	Category(e.g. accomodation, transport)
	Amount
	Date
	Description

LocalEvent

PK	EventID
	LocationID
	EventName
	EventDate
	EventType
	Description

User

PK	UserID
	Name
	Email
	Password
	Phone Number
	Phone Number
	Phone Number
	Profile Picture

EmergencyContact

PK	ContactID
Fk	LocationID
	ContactType(e.g. embassy, medical)
	Name
	PhoneNumber
	Address

LanguageTranslation

PK	TranslationID
Fk	UserID
	OriginalText
	TranslatedText
	TranslationDate
	LanguageFrom
	LanguageTo

Map

PK	MapId
	Location Name
	ActivityFilters
	Direction
	Coordinates

Weather

PK	WeatherId
Fk	LocationID
	ForecastDate
	WeatherCondition
	SevereWeatherAlert
	PackingSuggestions

Blog

PK	BlogId
Fk	UserID
	Title
	Content
	CreationDate
	Photos

Photo

PK	PhotoID
Fk	UserID
	UploadDate
	Caption
	StoragePath