WanderWays(Travel Planning WebApp) Objects Summary

Entity Objects

Entity objects represent the core data and business objects in the system. They typically have a lifecycle and persistent identity.

1. **Traveler**
   - Represents the user of the travel app.
   - Stores personal information and preferences.
2. **Itinerary**
   - Represents a planned trip.
   - Contains information about destinations, dates, and activities.
3. **Destination**
   - Represents a location that can be visited.
   - Stores information like name, description, and associated costs.
4. **Budget**
   - Represents the financial plan for a trip.
   - Contains estimated costs and budget limits.
5. **TripSuggestions**
   - Give suggestions to users based on destination inputs.

Boundary Objects

Boundary objects handle the interaction between the system and external entities (like users or other systems).

1. **PreferencesForm**
   - Allows travelers to input and update their travel preferences.
   - Collects data like destination types, budget range, and travel dates.
2. **SuggestionDisplay**
   - Presents trip suggestions to the traveler.
   - Shows a list of potential destinations based on traveler preferences.
3. **ItineraryDisplay**
   - Shows the created itinerary to the traveler.
   - Presents a detailed view of the planned trip, including destinations and timeline.
4. **BudgetDisplay**
   - Presents the budget estimate to the traveler.
   - Shows breakdown of estimated costs for the trip.

Control Objects

Control objects manage the flow of data and coordinate the interactions between entity and boundary objects.

1. **ItineraryManager**
   - Creates itinerary based on user inputs.
   - Update previously created itinerary.
2. **TripSuggestionGenerator**
   - Generates trip suggestions based on traveler preferences and popular destinations.
   - Applies algorithms to match preferences with potential destinations.
3. **BudgetCalculator**
   - Calculates the estimated budget for a trip.
   - Takes into account selected destinations, activities, and traveler preferences to provide a cost estimate.