**Balkan Road Trip - Thesis**

**Architecture**

DB contains Country, Destination, Activities, Road-Trips and User data.

API requests provide Things to do, POIs, Sights and more. (If a good API is found)

Load Destinations and Activities when starting the application and pass it each time.

**API**

* Ai Text and Image Generator: <https://rapidapi.com/razy7292/api/models3> Added
* Route calculator: <https://openrouteservice.org/> Added
* Get Pois, close to the place of choice: https://dev.opentripmap.org/tiles
* Use for getting distance between places: https://rapidapi.com/sharemap-sharemap-default/api/travel-places
* Search for places by text string, Search for nearby places: https://rapidapi.com/trueway/api/trueway-places
* Add Map, Addresses, Routes: <https://apidocs.geoapify.com/docs/places/api/api>

**Functionalities - Basic**

* Authentication (Done, add real encryption)
* Explore
  + Destinations (Done, better styling)
  + Activities
* Plan Road Trip
  + Manual
    - User: Choose month, starting and finish points
    - App: List all Destinations (Done, better styling)
    - User: Select Destinations Done
    - App: Using Weather API or search, display AI text, describing how the weather is usually at that point of the year.
    - App: Retrieve Activities using API or DB
    - User: Select Activities
    - App: Create Optimal Route
    - App: Using AI prompt, set ideal days of stay for each destination
    - App: Display Map
    - App: Display AI text about this road trip
    - User: Customize Route, Destinations and Activities
    - User: Confirm Creation
    - App: Save all data in database
  + Generate
    - User: choose maximum driving hours, start and finish
    - User: choose category/tags
  + AI Assistant Chat (Done, better styling)

**Functionalities - Extra**

* Popular Destinations
  + Rank Destinations (Top 5/10)
    - App: Each time Destination is searched (explore) or added in a Road Trip, increase its popularity index
    - App: Calculate list of most popular of last 3 days/week/15 days
* Like Mechanism
  + User: Like Destination, Activities
  + App: Update database
* Review Destination
  + User: Set 1-10 stars. Leave comment
  + App: Map User to Review; Review to Destination; Update database
* Social Media
  + App: Show Feed. Other Road Trips.
  + User: Scroll, Follow other users; like Road Trips
  + App: Update database
* Map
  + Pin visited Destinations
  + Clicking a Destination sends to Explore/Destination/id
* Budget Functionality

**Target**

* Quick
* Easy UI
* Fun
* Get Inspired, not organize really

Tasks

* Start by creating simple road trip between 2 destinations.
* Before Road Trip Creation: Overview Screen: Left Mini Map. Right Activities Per Day
* Find good category/tags, fill the many2many tables and implement the functionality.
* Make sure structure is followed: MVC – DB – UI (4)

**CURRENT TASK:**

* Fetch, Display and onclick review destinations and activities
* (4) for Reviews
* Fix MVC (Java) of RoadTrip based on the new structure (ui)

Similar Sites

https://triptile.com/balkans

https://wanderlog.com/guides