**Balkan Road Trip - Thesis**

**Architecture**

DB contains Country, Destination, Activities, RoadTrips and User data.

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

**Functionalities - Basic**

* Authentication Done, add real encryption
* Explore
  + Destinations Done
  + Activities Done
* Plan Road Trip
  + Manual
    - User: start == finish
    - App: List all Destinations Done
    - User: Select Destinations Done
    - App: Retrieve Activities using API or DB Done
    - User: Select Activities Done
    - App: Create Optimal Route
    - App: Display Map Done
    - App: Display AI text about this road trip
    - User: Customize Route, Destinations and Activities
      * App: Budget Functionality
        + Gas Cost: Insert l/100km consumption. Calculate. Done
        + Activities Cost: each time selected activities are updated, calculate cost.
    - User: Confirm Creation fix backend
    - App: Save all data in database
  + AI Assistant Chat Done

**Functionalities - Extra**

* Local Foods Section
* Display destination to destination driving time Done
* Using Weather API or search, display AI text, describing how the weather is usually at that point of the year
* Using AI prompt, set ideal days of stay for each destination
* User: choose or upload avatar

**CURRENT TASKS:**

* Backend Fixes: return destinationId in activities. = Add to the DTOs!
* Fix day planner: start creating dests\_count = total\_days. A day takes activities of one or 2 destinations ( dest1 -> dest2 drive).
* Display created road trips in profile.
* In destination selector: small icon for each destination. Onclick it should open a small popup with the description of the destination, number of each activity type (e.g. 5 religion activities, 2 leisure, ++) and *if possible* show it on the map = (info)
* Frontend: find better images for Experiences view, adjust navbar based on screen size
* Beautify route json before creating roadTrip (make smaller)

*Extras*

Similar Sites

visitgreece

https://triptile.com/balkans

https://wanderlog.com/guides

**Target**

* Quick
* Easy UI
* Fun
* Get Inspired, not organize/plan

Future Ideas:

* Popular Destinations
  + Rank Destinations (Top 5/10)
    - Each time Destination is searched (explore) or added in a Road Trip, increase its popularity index
    - Calculate list of most popular of last 3 days/week/15 days
* Reviews Functionality: onclick review destinations and activities/experiences
* Social Media
  + App: Show Feed. Other Road Trips.
  + User: Scroll, Follow other users; like Road Trips
  + API: get Pois, close to the place of choice: <https://dev.opentripmap.org/tiles>
  + Generate
    - User: choose maximum driving hours, start and finish
    - User: choose category

**API**

* Ai Text and Image Generator: <https://rapidapi.com/razy7292/api/models3> Added
* Route calculator: <https://openrouteservice.org/> Added
* 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>