

Project: Smart Travel Assistant

(for Izmir)

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INTRODUCTION

Even in today's world, where people can leverage the latest advancements in AI, trip planning often remains a manual and time-consuming task.

Problem:

Travelers must manually find, compare, and decide on destination options across many platforms based on their own preferences.

Goal:

To build a **Smart Travel Assistant** that simplifies travel planning for **Izmir** by using structured data, intelligent relationships, and AI-powered insights.

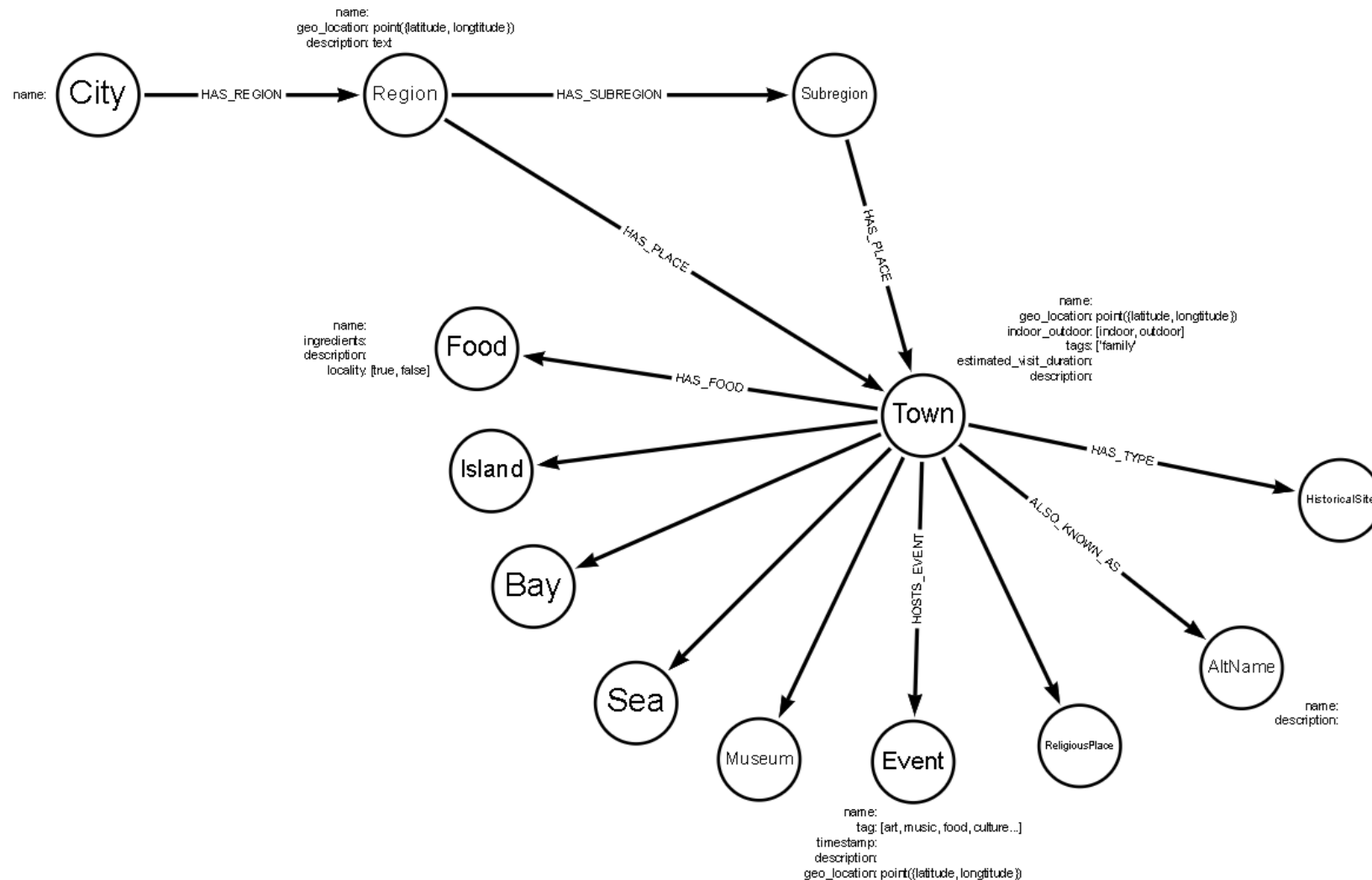


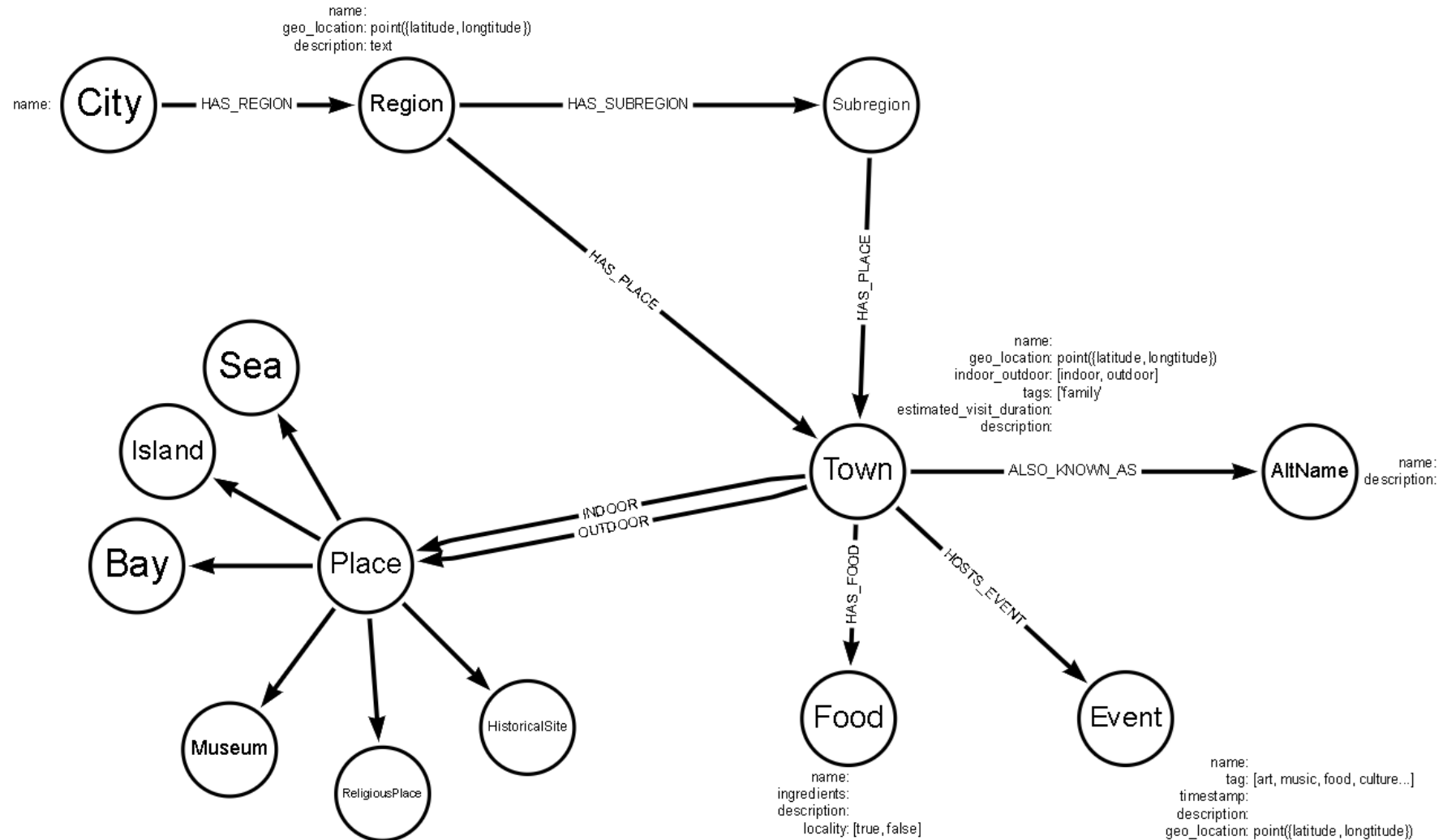
MOTIVATION

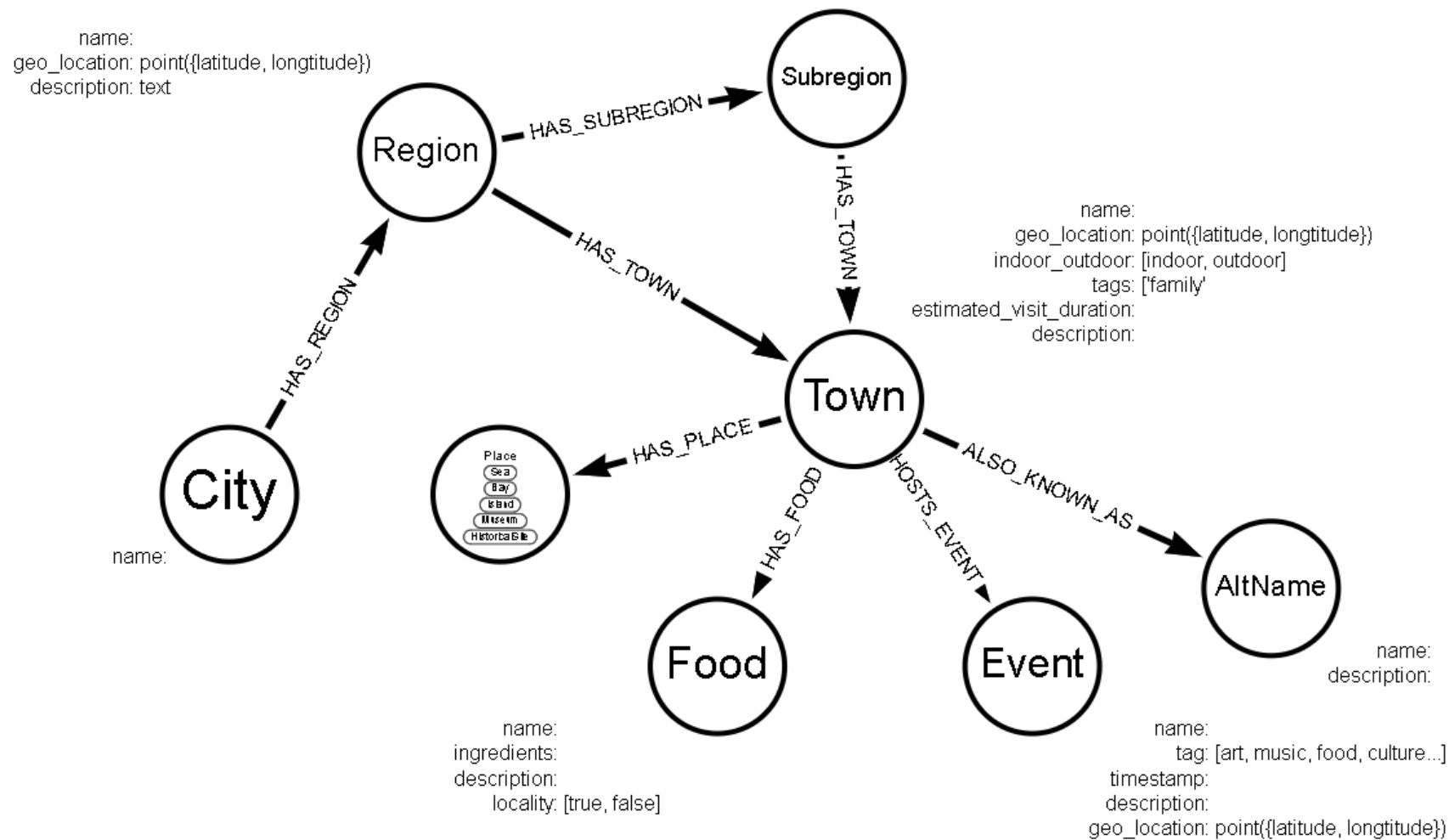
- **Time Consumption:** Travelers spend **over 5 hours on average** researching trips — according to [Expedia Group research](#). They often need to search across multiple sources to gather details about **museums, historical sites, popular attractions, and local food**.
- **Information Overload:** Planning a trip involves navigating **too many disconnected sources** — blogs, maps, forums, and review sites — making it difficult to form a clear plan or make confident decisions.
- **No Traveler-Centric Design:** Many tools provide **generic suggestions**, without focusing on **what travelers truly want to experience, see, or explore** during their journey. They lack the ability to understand **individual intentions and trip goals**.



KNOWLEDGE GRAPH DESIGN-1









POSSIBLE PROBLEMS

- Place name variations / duplications / Greek names
- Turkish characters
- Wrong named entity recognition
- Wrong geo location
- LLM limitation while making the data structure
- Lack of local APIs for museum, transportation etc.
- Incomplete fields (opening hours)
- Risk of misinformation process (website, hallucination)



CHATBOT FUNCTIONALITY

- **Place recommendation** by user preferences (museum, historical areas, beach, sea etc.).
- **Local food recommendation** based on user allergen list.
- **Weather checking** is done to make a proper plan any time of the year.

Briefly, planning the whole trip according to user preferences.

Might be implemented (free API):

- Flight finder
- Accommodation recommendation
- Showing the route
- Car rental, transportation



Thanks for Listening!