OnDroad Planner: Building Tourist Plans using Traveling Social Network Information

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Abstract

One of the key challenges in automated planning is to define the sources of information that will feed the initial state and goals of each task. Here we describe an application on travel planning, where the initial state and goals will be obtained by crowdsourcing. Travel planning requires the use of plenty Internet-based resources; some of them are related to human generated opinions on all kinds of matters. We present the OnDroad planner, a system that creates personalized tourist plans using the human generated information gathered from the Minube traveling social network. OnDroad proposes an initial tourist guide according to the recommendation of the users profiles.

Architecture

Minube

There is a traveling social network where users can:

1. Post photos
2. Share Point of Interest (POI)
3. Create a tourist plan
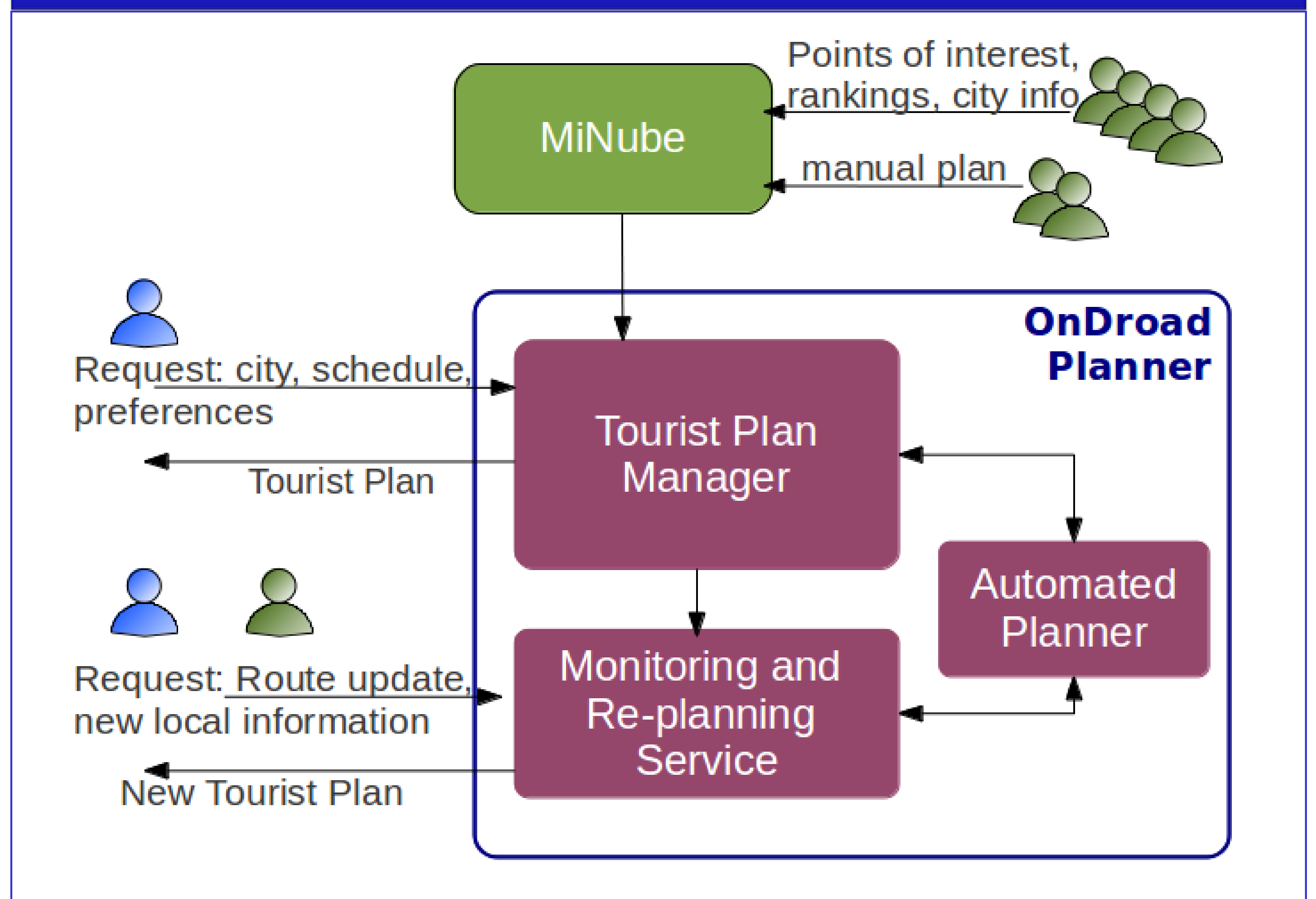4. Share their experiencies
5. Vote a POI

OnDroad Planner

❖ Extracts information from **Minube** services
❖ Selects the best N POIs
❖ Splits the set of best POIs in subgroups that are geographically close
❖ Creates a plan for each day

Users

The users can request:
A plan of :
- city
- zone
- country

To realize this plan we use the global score of POIs and votes from your network
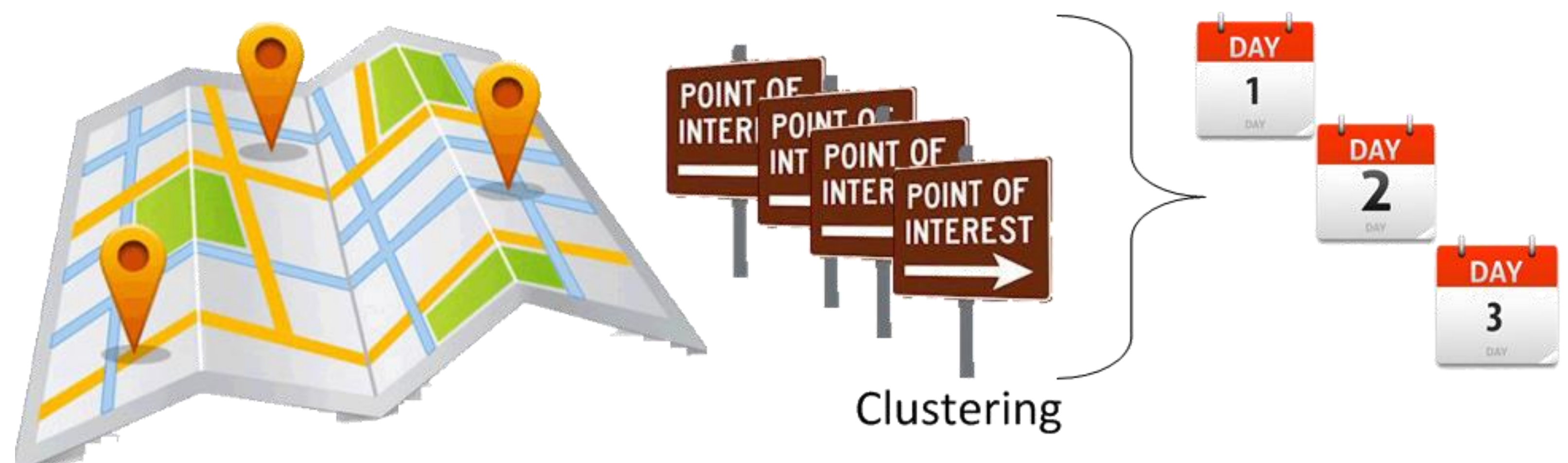
Tourist Plan

❖ (10:00 Visit Trocadero-Garden 1 hour)

❖ (11:00 Move Trocadero-Garden Eiffel-Tower 0,25 hours)

❖ (11:15 Visit Eiffel-Tower 3 hour)

❖ (14:15 Move Eiffel-Tower Bistrot-Ding-Restaurant 0,05 hours)

❖ (14:18 Have-Meal Bistrot-Ding-Restaurant 1,5 hours)

❖ (15:48 Move Bistrot-Ding-Restaurant American-Library 0,09 hours)

❖ (15:53 Visit American-Library 1,5 hour)

❖ (17:23 Move American-Library Des-Invalides-Esplanade 0,27 hours)

❖ (17:39 Visit Des-Invalides-Esplanade 1,5 hour)

Future Work

o We are currently developing the monitoring and re-planning service
o New information from users will be use to rebuild the plan
o Hand-made plans could be used to improve ours plans