Tourist Attraction Information Service (TAIS)

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Abstract—Tourist attraction information service is a recommendation system developed for Android-based devices. The service determines the current tourist location and provides recommendations about attractions around (like museums, monuments, and other places) and their textual and photo description. It allows to browse information about attractions which are better to attend and based on the tourist preferences and current situation in the region. The system chooses an Internet source that provides the actual information about the interested attraction based on tourists ratings. The information is extracted by attraction information module from Wikipedia, Wikivoyage, Panoramio, Flickr, internal attraction databases and provided it to the recommendation module. For interoperability support between service modules the smart space technology is used which allows providing for information sharing between different devices. The architecture of tourist attraction information service is presented in Fig. 1. Mobile client sends the contextual information like the tourist coordinates and preferences to the attraction information module. The module provides the attraction information that includes a list of attractions, images and descriptions from different internet sources to the recommendation module. The recommendation module analyzes the attraction information and tourist preferences and implement filtering and sorting it. Ordered list of attractions is presented to the client module.

Keywords—Tourist attraction, Information service, TAIS.