

Development Of A WEB GIS Based On Tourism Information System

Xiaoyang Gao ¹ and Åke Sivertun ²

Department of Computer and Information Science

Linköpings University, Sweden

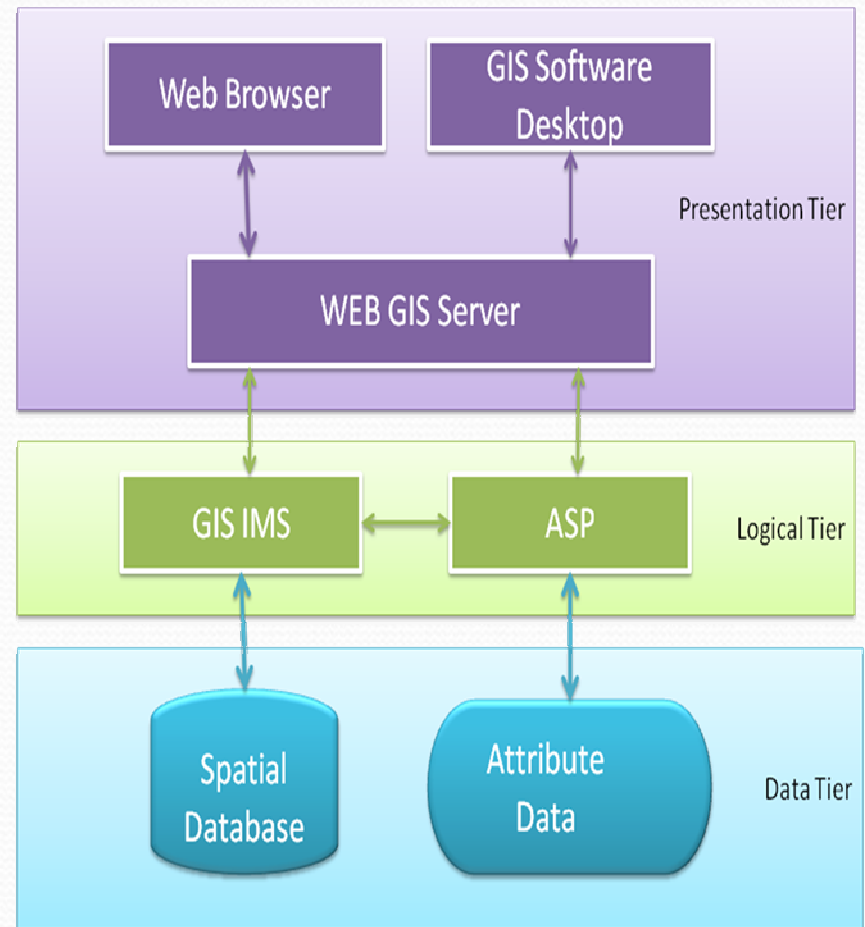
Abstract

WEB service technologies bring us effective means of developing a brand-new generation WEB GIS. This paper provides a model to develop a WEB GIS based on Tourism Information System (TIS). According to requirements of a distributed WEB GIS based on TIS, we choose a WEB B/S/S three-tier architecture to construct the system, and apply relatively ripe ASP techniques to realize active pages and extended functions. To develop an effective system, designing TIS is important and also determines the capability and performance of the system. In our study, we focus on structures of WEB GIS services and discuss the data preparation affecting the design of database. Based on proposed system structures, we apply our findings to build up a WEB GIS system for Shenongjia tourism district in China. The proposed model can be generally applied to manage tourism information, accomplish mapping visualization, provide information query for tourists and help decision making. Furthermore, it helps organizations manage and improve local tourism industries.

Architecture of WEB GIS

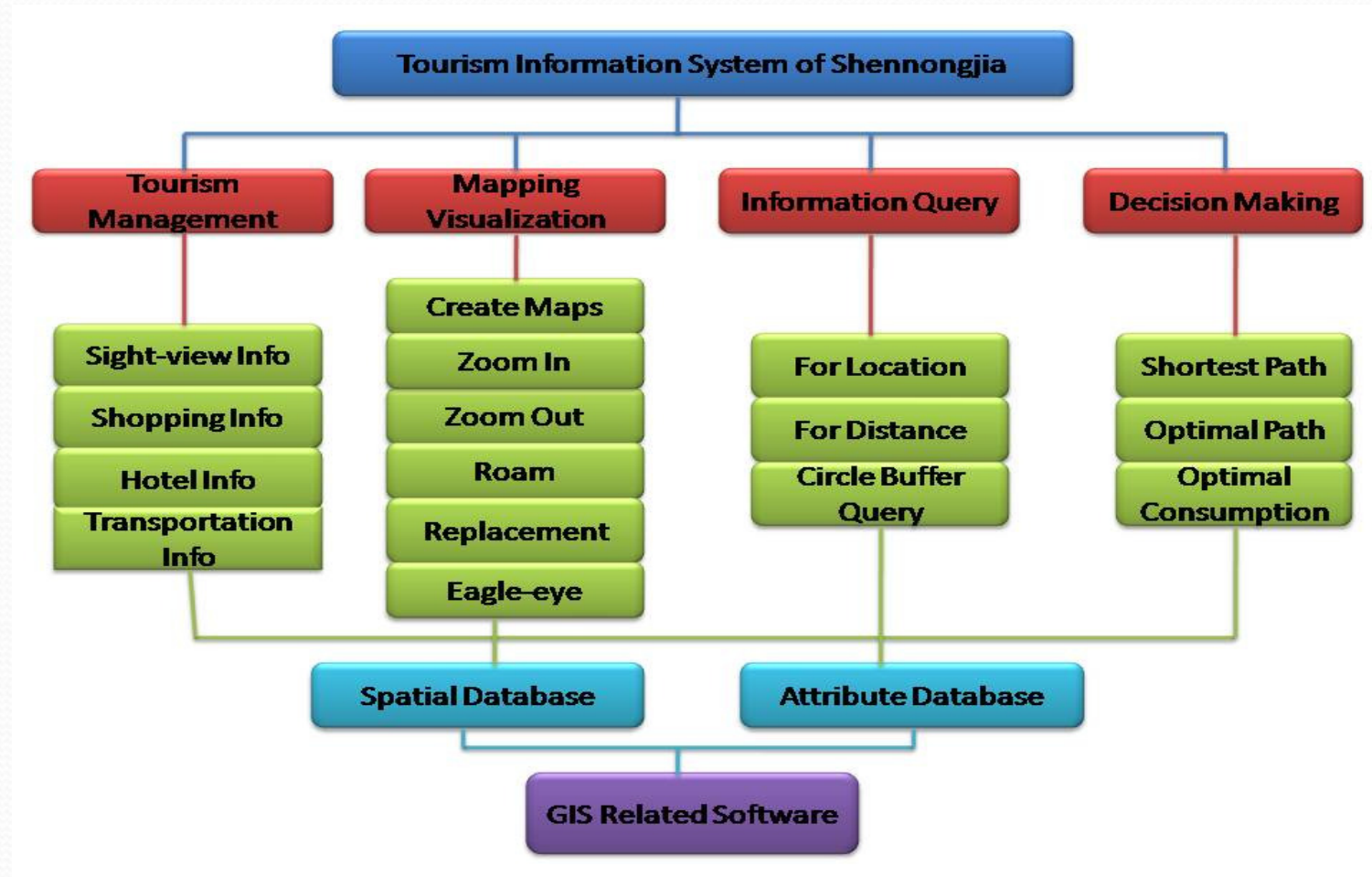
The B/S/S three tiers are:

- The ***data sources tier (database server)***, which is actually a GIS server and answers for storing information.
- The ***logical tier (web server)***, which transfers multi-response from users' requests and queries operations.
- The ***presentation tier (browser)***, which is a platform of communication between users and a GIS server (or data)



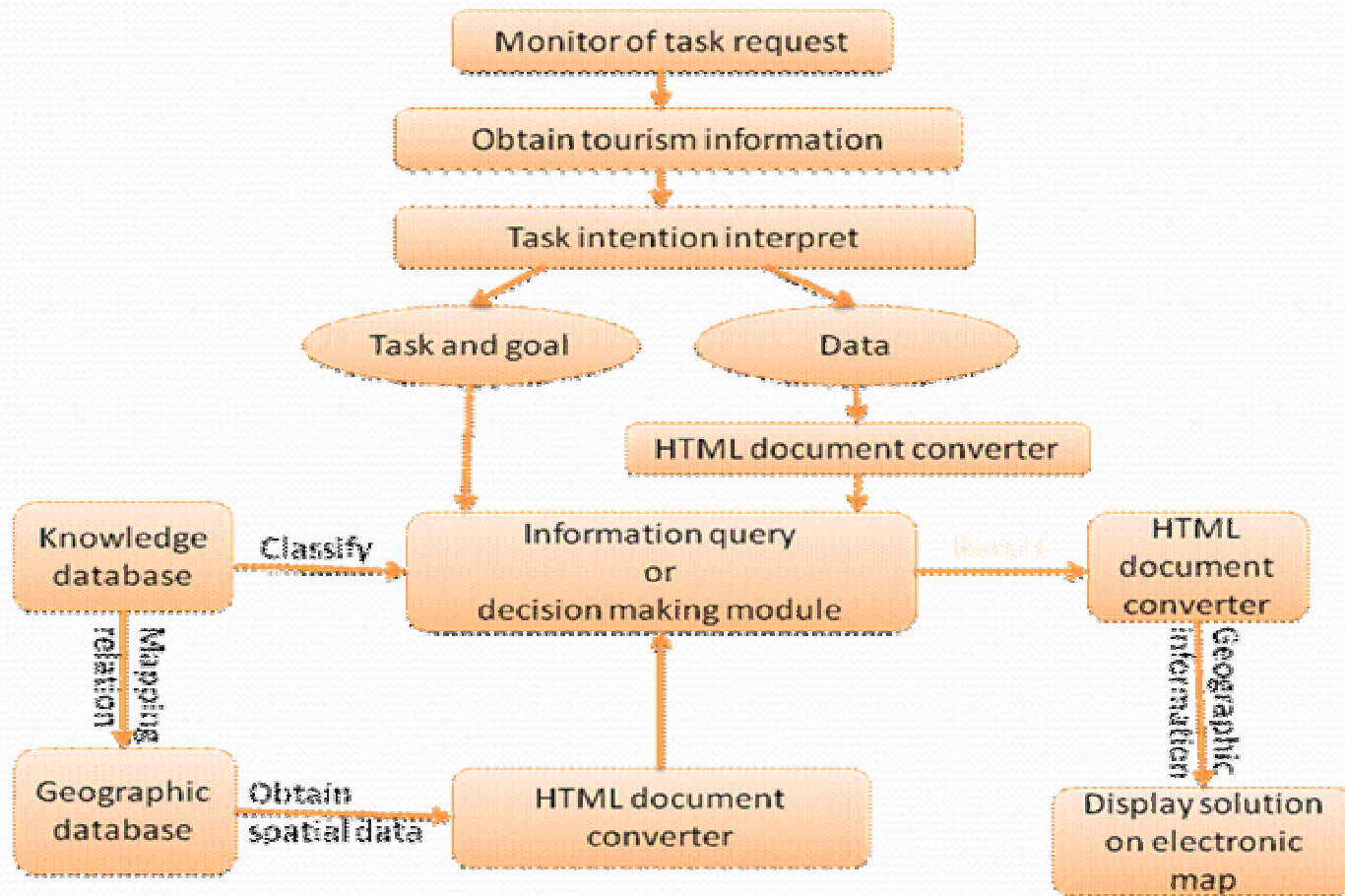
Design of Tourism Information System Based on a WEB GIS

1. Integrated framework of Tourism Information System



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2. Processing Flow-chart of Mapping Visualization Module



Conclusion

- This paper mainly discusses structure and design processing of a WEB GIS, which is a combination of WEB and IT and also an inevitable trend to improve information management and service.
- A WEB GIS is already not only displaying a map, but an “intelligent” multifunctional map, which guides users to reach destinations, gives users suggestions according to their demand, and brings users more information than a simplex map.