

WEB GIS Based on Tourism Information System: an Application Case Study

Xiaoyang Gao¹, Åke Sivertun²

¹ DEPT. OF COMPUTER AND INFORMATION SCIENCE
LINKÖPINGS UNIVERSITET
xiaga970@student.liu.se

² DEPT. OF COMPUTER AND INFORMATION SCIENCE
LINKÖPINGS UNIVERSITET
akesiv@ida.liu.se

WEB service technology brings us effective means of developing the brand-new generation WEB GIS. This paper provides the method and process to develop WEB GIS based on Tourism Information System (TIS). According to the requirements of distributed WEB GIS based on TIS, we choose the WEB B/S/S three-tier architecture to construct the system, and apply the relatively ripe ASP technique to realize the active page 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 structure of WEB GIS service and discuss the data preparation which may affect the design of the database, at the same time; we take an application to give an application representation. As the paper presents a general model of developing WEB GIS based on TIS, it can be applied to manage general tourism information, accomplish mapping visualization, provide information query for tourists and help decision making. Also, it will help related governor manage and improve the local tourism industry.