E-Diary Learning System for Tour-Guided Learning

Recently many information technologies have been developed for multiple applications such as manufacturing, business, and education. For education, to develop a good learning management system is a critical issue due to it can increase the users' learning efficiency. A novel learning management system we developed is composes of three subsystems: (1) Development Platform for Active Learning. (2) Outdoor and Indoor Tour Guide System. (3) e-Diary Learning System for Tour-Guided Learning. In this paper, we stress on the architecture, learning model, and applications of the above third subsystem. The main idea of this subsystem is to integrate multiple multimedia data such as text, image, video, and voice into the valuable information. Many components (e.g., importer, exporter, and e-Diary viewer) are comprised in the subsystem. The records kept on the trip can be imported from users. They can review the scenery been seen and the places been visited. The trip data can also be exported to the storage medium (e.g., compact disc, hard disc). Thus it is also regarded as a tour information management system. The subsystem consists of two major functions, system administration and diary browse. The first one includes the user management and the diary management. The second one focuses on the reappearance of the tour. Besides travelogue making, this subsystem is suitable for the learning of extracurricular activities. It provides teachers the useful and vivid manners to increase the learning efficiency of students. The experimental results appear that the proposed subsystem has the following advantages: (1) improving the quality of teaching (2) increasing the students' learning interests (3) facilitating data storage and review. Up to now, the proposed subsystem only works in single PC. Our ongoing work is to enhance the network functions of the current subsystem to migrate to Intranet or Internet.