Applying Web Services to Mobile Device Location Based Services

林國隆、江憲坤

E-mail: 9222448@mail.dyu.edu.tw

ABSTRACT

Because of the rapid development of wireless environment and hardware technology of mobile devices, people are able to surf over the Internet anytime and anywhere. Therefore, related mobile services will make the live of people more convenient. In the scope of mobile commerce, "location service" is one of the most important mobile services. The primary goal of "location service" is to help people complete their work by getting the location information and related information of their need. This research analyzes the capabilities for design of location-based service according to the user and system requirements, and the scenario. Furthermore, this research designs and implements the Web Service objects which encapsulate the required capabilities owing to the Web Service is public, modular and reusable. Therefore, a collaborative location-based application framework is proposed which is based on Web Services. A location-based service prototype system based on the proposed framework is designed and implemented as a proof of concept example of this research.

Keywords : Web Services, Mobile Devices, Location Service, Collaboration.

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