A framework for supporting a context-aware shopping environment

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Abstract

Nowadays, mobile devices such as mobile phones and tablet computers have become a part of our daily life. These devices are combined with sensors such as Radio Frequency Identification (RFID) operating on wireless infrastructure to create a context-aware environment to facilitate our daily life. On the other hand, service and cloud computing have become popular server-side technologies for ubiquitous service provision. In this paper we focus on constructing a context-aware shopping environment. This paper presents a framework that supports context-aware shopping environment which adopts RFID technology on WiFi for context-awareness and Web services for service provision. The experimental results show the feasibility of the system.

Keyword：Cloud computing, Context-awareness, RFID, SOA, Ubiquitous Commerce