Abstract

Due to the rapid development of smart hospital, doctors have an urgent need to access Electronic Medical Record System (EMR) through mobile tablets, in wireless environments. Since most of the EMR systems are based on Windows Operating systems, the mechanisms of making EMR mobiles become an important research issue in smart hospital. This paper presents an application to a Smart Hospital based on cloud computing. This system could be achieved by using service oriented architecture, and XML (Extensible Markup Language) technology; It improves the mobile tablets that provide the needed information to the doctors, which are based on their context work. Thus, the doctors would be able to follow up their patients’ treatments and medical services. Moreover, they would be able to send back their review whether the patients took their treatment on time or not. Besides, this smart hospital system helps the doctors in taking critical decisions like in kidney transfer, depending on both the patient’s and the volunteer’s results.
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**Index Terms**

- Computer Science
- Intelligent Systems

**Keywords**

- Mobile computing
- Smart Hospital
- Cloud Computing
- Health Care and Cloud
- Health Care.