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Abstract
Nursing works are important and tough in the hospital environment because nurses must execute various dosing manipulation and nursing records, and comfort patients' emotional reacts owing to long-term sickness. Thus, a RFID-enabled nursing medicine system based on mobile-computing environment is proposed in this thesis to help nurses manipulate dose easily and simply.
The characteristics of the system are: precisely identifying the patient where the working carts is located at to avoid the wrong dosing by wire-less RFID reader and ward/bedside RFID tag; easily completing the dosing manipulations by palm computers embedded with wireless web functions; using AJAX technologies to get the data generated from RFID to achieve the purposes for locating and tracing the working carts.
After actual bed-side testing and questionnaires, we can make sure that the system can actually reduce the loadings of the nurses in paper recording, avoid the errors in patient-drug matching, improve the qualities of medical services and achieve the goals of patient-oriented medical services.
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