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WEB-BASED ELECTRONIC MEDICAL RECORD SYSTEM

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ABSTRACT

Healthcare organizations are suffering from the lack of medical history reports and statistical information that should have been available to healthcare practitioners prior to their treatments. Healthcare practitioners can not provide optimal care without the sufficient knowledge of these reports. With the advent of Electronic Medical Records (EMR), patient information can be stored in computer databases at institutions, hospitals and doctor offices. In order to increase the effectiveness and the efficiency of healthcare delivery, several groups are facilitating the growth of EMR systems by creating standards for the formatting and storage and by developing software that is catered for managing the exchange, integration, sharing and retrieval of electronic medical record. In this thesis, we designed and built a web-based system, that delivers some of the main Electronic Medical Record System functions like: Patient demographic data collection (patient’s basic information that uniquely identifies him by name, date of birth, medical record number, gender, address, etc), which can be shared by many organizations, collecting health related information to enable us to produce different useful statistical reports, structured data entry for diagnoses, diseases, blood bank, lab test and X-ray. Furthermore it supports multiple office locations such as the connectivity between practice sites, multiple user access to a single patient record, with appropriate security, as well as other functions. The final output of the thesis is currently published on an Intranet web site, and will be posted later on the Internet.