DEVELOPING A HIPAA COMPLIANT EMR SYSTEM: TIGERPLACE CASE STUDY

Saurav Garg

Yang Gong, Dissertation Supervisor

ABSTRACT

The purpose of this project was to develop a secure and HIPAA-compliant EMR system in TigerPlace. Any information that is processed over the network or internet is exposed to various security threats. Malware infections can easily infect the user system when the user is browsing the web, and this malware or virus can be potentially harmful to the vital information processed by the user system. In order to protect and secure the TigerPlace EMR system from unauthorized access and misuse by hackers/malicious users, and to ensure the compliance of the EMR system with HIPAA requirements, security measures and protocols within the web application were implemented. This project involved the development of an-easy to use and sophisticated information (EMR) system for TigerPlace, analysis and evaluation of security needs for this EMR system, implementation of various security safeguards to ensure integrity, availability, and confidentiality of residents' medical records and, finally, suggestions for the improvement and enhancement of the security of this application.