

222. ELECTRONIC HEALTH CARE DATA STORAGE AND EMS TRACKING USING CLOUD SERVICES

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Cloud Computing provides facilities for storage, management, processing, and accessing information and other data stored in several system, platforms, applications etc .In this paper we are proposing, an android application in cloud that hold one's medical details along with an Emergency Medical Services(EMS). A Call that is generated from a patient's mobile, is used for tracking the nearby hospital. Once the cloud GPS receives the call, it searches for nearest medical care using k-d tree search algorithm. The hospital; receives an emergency call along with the particular patient details, so they can contact for ambulance as well as pre-requirement treatments. The proposed system locates nearest available hospital, contacts its ambulance emergency system, accesses a Electronic Health Record of emergency patient using Privacy Aware Security Algorithm (PASA). The main objective of proposing cloud based solution is to reduce the cost (construction and maintenance), to reduce data loss risk, to gather all the hospitals on one platform to better access patients' medical information for easy management and maintenance. The proposed cloud computing solution is intended to be used by hospitals; however the solution is generic and can be used by hospitals of any country and the community based hospitals.

Keywords: Cloud computing, EMS, k-d tree search algorithm, Privacy Aware Security Algorithm (PASA)

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