

Application of Cloud Based Healthcare Information System through a Smart Card in Kingdom of Saudi Arabia

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Abstract : Smart card technology is a secure and safe technology that is expanding its capabilities day by day in terms of holding important information without alteration. It is readily available, and its ease of portability makes it more efficient in terms of its usage. The smart card is in use by many industries such as financial, insurance, governmental industries, personal identification, to name a few. Smart card technology is popular for its wide familiarity, adaptability, accessibility, benefits, and portability. This research aims to find out the perception toward the application of a cloud-based healthcare system through a smart card in KSA. The research has compiled the countries using a smart card or smart healthcare card and indicated the potential benefits of implementing smart healthcare cards. 120 participants from Riyadh city were surveyed by the means of a closed-ended questionnaire. Data were analyzed through SPSS. This research extends the research body in the healthcare system. Empirical evidence regarding smart healthcare cards is scarce and hence undertaken in this study. The study provides a useful insight into collecting, storing, analyzing, manipulating, and accessibility of medical information regarding smart healthcare cards. Research findings can help achieve KSA's Vision 2030 goals in terms of the digitalization of healthcare systems in improving its efficiency and effectiveness in storing and accessing healthcare data.

Keywords : smart card technology, healthcare using smart cards, smart healthcare cards, KSA healthcare information system, cloud-based healthcare cards

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