Smart Way of Prescribing Medication

Girish Patil[1], Kartik Nillawar[2], Sachin Shetkar[3], Mohit Khatri[4], Snehal Shekar Shinde[5]

Students, Department of Information Technology Engineering[1,2,3,4]

Asst. Professor, Department of Information Technology[5]

Smt. Kashibai Navale College of Engineering, Pune, Maharashtra, India

Abstract: *This research deals with Implementation of digital signature technology for e-prescription to avoid cybercrime problems such as Theft, modification, unauthorized access, etc. In this research, 2048-bit RSA algorithm will be implemented in Java programming and Android based system. The design of the Secure Electronic Prescription (SEP) application is to combine given services such as confidentiality, authentication and non-repudiation. The Secure Electronic Prescription (SEP)application is intended to combine specific services such as confidentiality, authentication and non-repudiation. prescription details issued to pharmacists only are used to secure encrypted prescriptions and QR codes. There are two schemes in the application namely protection schemes and authentication scheme. This study uses black-box and white-box testing to test input values, code, and outputs without testing the processes and designs occurring in the system. Demonstrate implementation of encryption in Secure Electronic Prescription (SEP). The implementation of a digital signatures in this study can prevent archive theft, which is shown in the implementation and proven in the test.*

Keywords: Secure Electronic Prescription

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