

IMPLEMENTATION OF LOGIN SECURITY IN HOSPITAL INFORMATION SYSTEM USING ONE TIME PASSWORD BASED ON EMAIL WITH MD5 HASH

ABSTRACT

Siti Fatimah Mother and Child Hospital is one of the hospitals that is always present to meet the health needs of the community, especially maternal and child health. This company stores important data for all patients and hospitals that should not be known by any party. The problem with this hospital management information system requires a security so that hospital data is kept private. By using the authentication process, where every time the client identifies himself with the server computer, the server will ensure the authentication of the client data so that accuracy in security can be guaranteed. The purpose of the final project is to implement the MD5 hash algorithm that can be used by the server to determine the authentication of incoming clients and also to secure the information system in the hospital. Security method in information system by way of authentication based on One Time Password with MD5 hash. In this login process, it will avoid the existence of a password (PIN) directly based on the web which may be changed or attacked by intruders. The results of the One Time Password implementation have been applied to the hospital information system login using the python programming language and the django framework so as to provide a sense of security and confidentiality. One Time Password code is sent via email with a dynamic code (changes).

Keywords: One Time Password, MD5, Login Security, Web.