

DATABASE SECURITY USING RSA ALGORITHM IN DATA STORAGE PROCESS

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ABSTRACT

The development of technology is very rapid, especially in the field of data security which is increasingly vulnerable to data theft. The process of storing data in a database that is easy to misuse is considered necessary for the existence of cryptography as data and information security. Therefore, the experts created an algorithm method to secure data. This method is called the encryption and decryption method to secure highly confidential data or information from irresponsible people. The data to be secured is customer data in the Web-based MBC Barbershop Reservation System. The ongoing lack of customer data security is certainly an obstacle for customers to make reservations on the system. With these problems, the purpose of this research is to provide security for customer data. The method that will be used is the RSA Algorithm which aims to secure data and information contained in a database. Analysis of the data and system design such as ERD (Entity Relationship Diagram), DFD (Data Flow Diagram), Flowchart, and system design to the system requirements to be built. The final result obtained is a Security System in the Database Storage Process using the RSA Algorithm which is expected to encrypt and decrypt customer data in the storage process to the database so that confidentiality is maintained and avoids data misuse. This system is built using a web browser and is made using the PHP programming language, PHP Javascript, MySQL, HTML.

Keywords: Database, RSA Algorithm, PHP, and Web.