SECURING STUDENT DOCUMENTS USING WEB-BASED RIVEST SHAMIR ADLEMAN ALGORITHM

(Case Study: SMPN 15 Sukabumi City)

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ABSTRACT

Technological developments, especially in data security systems in maintaining the security of information data, are growing very rapidly. In maintaining the security of information data, there are branches of science in development such as cryptography and steganography. In its application, it is not only done using one security technique, but can be done in combination with information data security. This research aims to create a data security system by implementing cryptography on student documents by calculating the Rivest Shamir Adleman (RSA) algorithm. RSA is a cryptographic algorithm that can be used to secure data and the algorithm is an asymmetric blockciphertext that can encrypt (encipher) and decrypt (decipher) text using two keys, namely the private key and the public key. The results of the research are that users can encrypt documents and the encrypted documents are decrypted again using two keys so that the security of the information data is maintained because it has been secured and encoded using two different keys.

Keywords: Security, Encryption, Decryption, Cryptography, RSA Algorithm.