

**IMPLEMENTATION OF ENCRYPTION AND DECRYPTION USING THE
VIGENERE CIPHER METHOD FOR SECURING TRANSACTION DATA
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ABSTRACT

Transaction data is a file that is sent a lot and contains a lot of important information in it. The security of transaction data files is of course very important so that irresponsible parties do not hack or manipulate information from the data. One way to secure data is to use cryptographic techniques. Cryptography is used to provide information content or plaintext into content that cannot be understood through an encryption or encipher process, and to retrieve the original information a decryption or decipher process can be carried out. The Vigenere Cipher algorithm is an algorithm for encoding and decoding data using ASCII format, which is based on the base number 64 or can be said to be one of the methods used to encode binary data. In building this application system, the PHP (Hypertext Preprocessor) programming language and MySQL database were used as system creation tools. From the results of experiments carried out with this application, the encrypted data becomes a message, and decryption is carried out so that the data can return to its original form without any changes, so that the authenticity of the data can be maintained.

Keywords: Cryptography, Vigenere Cipher, Transaction Data, PHP, MySQL