WEB-BASED EMPLOYEE PAYROLL DATA SECURITY SYSTEM USING ADVANCED ENCRYPTION STANDARD METHOD

(Case Study: PT Sarana Indah Permai, Indonesia, Tarakan)
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ABSTRACT

PT Sarana Indah Permai, Indonesia, Tarakan, is a company engaged in the field of construction contractors and engineering consultations established in 2018. Data security is a valuable asset that must be maintained, if data is changed, data is lost and viewed by unauthorized parties. PT Sarana Indah Permai, Indonesia, Tarakan does not yet have a salary data security system. In a company, salary data is very important and must be kept secure and confidential. Because, if salary data is changed, data is lost, or viewed by irresponsible people, a company can suffer losses. Therefore, research was conducted that aims to create a security system that can secure salary data by encryption, and restore it to its original state called decryption in the form of files (XLS, PDF, and DOC) using the AES 128 (Advanced Encryption Standard) encryption and decryption method. The results of the study produced salary data files that had been encrypted into ciphertext.

Keywords: Data Security System, Employee Salary Data Protection, Encryption, Decryption, AES 128 Algorithm.