

IMPLEMENTATION OF AES 128 BIT ENCRYPTION METHOD (RIJNDAEL) ON EMPLOYEE SALARY DATA (Case Study: Bali Indah Studio Pangkalan Bun, Central Kalimantan)

M. RIZKY HADI HUTAMA

*Informatics Study Program, Faculty of Science & Technology
University of Technology Yogyakarta*

*Jl. Ringroad Utara Jombor Sleman YogyakartaE-mail:
rizkyhutama11@gmail.com*

ABSTRACT

Bali Indah Pangkalan Bun is a specialized store that offers a variety of photography, camera, and digital printing needs. Established in 2017, the store manages its employee payroll process manually using applications such as Microsoft Word and Microsoft Excel, and stores all salary data in hard copy format. Ensuring the security of payroll data is necessary to reduce the serious risk of misuse by irresponsible parties, which could potentially lead to losses for all involved parties. Addressing this challenge requires an innovative approach that combines effective data security systems, with a special emphasis on implementing cryptographic techniques. Therefore, this research was conducted to address issues at Bali Indah Pangkalan Bun to prevent data misuse by irresponsible parties. Bali Indah Pangkalan Bun manages this system using the waterfall method, with stages including problem identification, data analysis, system analysis, system design, system implementation, and system testing. The results of the system testing indicate that encrypting data using AES in the payroll application can ensure that the information is inaccessible to unauthorized parties.

Keywords: Employees, salary, AES.