

ABSTRACT

Clinics are health services such as consultations, examinations and treatment. To carry out these health services, each patient is required to register their personal data for data collection at the clinic. It is important to note that this patient data is strictly confidential because it contains the patient's identity, patient history which is sensitive data and only authorized persons can know the patient's data. Referring to Law Number 27 of 2022 concerning Personal Data Protection (PDP), patient data needs to be kept secure so that there is no misuse of data. Based on the results of the interview, the management of patient data is still manual so that it can be seen by unauthorized people, therefore it is necessary to create a website by implementing cryptography such as the advanced encryption standard (aes) algorithm to manage patient data at the clinic. By using the aes algorithm, patient data will be much safer than without using cryptographic techniques. The creation of this data application uses the prototype method, the Laravel framework, and uses the aes256 algorithm. The purpose of creating this data application is to make it easier for telecommunications to manage and maintain patient data so that it is stored safely and can function properly. The results on the patient data application website show that the process of managing data and implementing the advanced encryption algorithm 256 CBC standard is successful and functioning well.

Keywords: Laravel, AES256, data application, prototype, website.