

ABSTRACT

Data Security System for Registration on Training and Certification Using AES and Base64 Algorithm

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Advanced encryption standard algorithm is an art of cryptography using the advanced encryption, howsoever cryptography is a process to secure information by encrypting it. To implement it on the registration system, this algorithm can be used to encrypt registrant data to the database forth it makes the data secured from the action of data breaching. Base64 algorithm is needed to encode data from plaintext to binary text in American standard code for information interchange format, and to decode data from binary text to plaintext. The problems in this research are how to implicate two algorithms for the encryption process on securing registration data, and to know if the implementation of two algorithms work well on the system. The purpose of this research is to give solutions for that problem, by having knowledge and skills to build data security system with the implementation of advanced encryption standard and base64 algorithm. This research uses qualitative and quantitative method, for data mustering through observation, experiment, and documentation, in this case towards the testing process in client and server side. The result that the writer hopes for this research are to get knowledge and skills to build the system, and it serves its purpose.

Keywords: *Advanced Encryption Standard Algorithm, Base64 Algorithm, Cryptography, American Standard Code for Information Interchange, Data Security System.*

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