SPL1 Project Proposal Form, 2022

Institute of Information Technology (IIT)

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Project Description:

Title: Image Encryption and Decryption using AES Algorithm

An image is encrypted and decrypted using AES algorithm in my SPL-1 project. Due to the increasing use of images in various fields, it is essential to protect confidential image data from unauthorised access.The receiver can only view the given image as the image is encrypted using AES, and the key is only known to the sender and receiver . The sender and receiver agree upon a 128-bit key. Encryption is done in spans, where we process 16 pixels in each span . For both its Cipher and Inverse Cipher, the AES algorithm uses a round function composed of four different byte-oriented transformations: SubBytes, ShiftRows, MixColumns and AddRoundKey.The decryption process is similar to encryption.

Steps: 1. Read the image.
       2.Key Selection.
       3.Generation of Multiple keys.
       4.Encryption.
       5.Decryption.

Languages or Tools to be used: C , C++ , VsCode ,Github

Supervisor's Name: Dr. Naushin Nower _____

Signature of the supervisor: _____

Date: _____