**National University of Computer and Emerging Sciences, Karachi  
FAST School of Computing**

**CS3001-Computer Networks, Spring 2022**

**Project Proposal**

**Project Title:** Encryption Integration in SMTP

**Group Members:**

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**Section:** 6E

**Project Description:**

SMTP would be the prime focus of the project. Furthermore, this will be improved by adding encryption to the text. This will allow the message to be sent securely without the encryption technique known. The project will provide end to end encryption to the user.

**Plan of work:**

We would use the ASCII encryption technique. The user will have to add some random numbers of his choice that the system will process and design the encryption algorithm accordingly. The basics of that encryption would be present in the system, but the values would not be present. These values will make quite difficult for unauthorized person to decrypt. In the text with some special key the system will be able to identify the values. Then it will provide the decrypted values to the receiver.

**Work Breakdown:**

**Arman:**

developing Equivalence partitioning (converting key to 16 bits)

AES (Advanced Encryption Standard)

**Sajjad:**

Encryption and Decryption

Hiding key

**References:**

https://www.tutorialspoint.com/cryptography/advanced\_encryption\_standard.htm