**SPL1 Project Proposal Form, 2022**

**Institute of Information Technology (IIT)**

**University of Dhaka**

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| **Student’s Name:**  +880 1580 33 21 87 | MAHFUZ SARKER SHYKOT | | |
| **Student’s Roll:** | BSSE 1328 | **Phone:** |  |
| **Project Description:**  **VisionConnect**  VisionConnect is a prototype connectivity tool to interact with human being via LAN as Instagram provide us with wide horizon. VisionConnect would be implemented using C/C++ and socket programming. It would provide secure exploration of login, texting, file sharing and wide productivity between one-to-one and one-to-many peering (basically group chat).  VisionConnect will use two different advanced encryption algorithm (e.g. AES256, HMAC-SHA256, Caesar Cipher Algorithm of Cryptography etc) to execute end-to-end encryption (E2EE) like WhatsApp for authentication and sending message respectively. VisionConnect would also use efficient and enhanced searching algorithm to search throughout the messaging history. It would additionally use socket programming to send a file while chatting. VisionConnect will also provide functionality of blocking or unblocking, user status (online or offline), user review and so on.  Overall, VisionConnect is implementing 3 different modules as follows.   * Login module * Chatting module * Exploration module | | | |
| **Languages or Tools to be used:**  C, C++  Visual Studio Code, Github, Git, Gitbash | | | |
| **Supervisor’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  DR. SUMON AHMED  **Signature of the supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  January 04, 2023 | | | |