

National University of Computer and Emerging Sciences, Karachi
FAST School of Computing
CS3001-Computer Networks, Spring 2023

1. **Project title:** VPN (Virtual Private Network)
2. **Group member name and ID:** Kashif Ali (20P-0648)
3. **Proposed project description:**
Allows users to access the internet securely and privately. By connecting to a VPN, users can encrypt their internet traffic and hide their IP address, making it more difficult for third parties to track their online activities. Some functionalities are Encryption, IP Spoofing, Access content that is not available in their region or country, and Anonymous browsing.
4. **Plan of work:**
 1. Problem identification: In the first step I will see the problem, What technologies I can use it for and Selecting the best technologies and tools.
 2. Researching: In this step I will research the resources and learn the implementation on those technologies that I will select in first step.
 3. Identify the Requirements: This is the final point I will explore what features and functionalities will VPN perform some of them are given below.
 - Security
 - Privacy
 - Bypass Geo-restrictions
 - Anonymity
 - Torrenting
 - Multiple Protocols.
5. References:
 - https://www.youtube.com/watch?v=zcJayEW6nX8&t=1821s&ab_channel=Shane_sreal
 - https://www.cyberghostvpn.com/en_US/privacyhub/create-your-own-vpn/