

DELHI TECHNOLOGICAL UNIVERSITY



Mathematics And Computing

COMPUTER NETWORKS (MC-308)

Midterm Project Proposal

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Client-Server File Transfer Console Application using TCP socket programming.

WHAT IS TCP?

TCP refers to the Transmission Control Protocol, which is a highly efficient and reliable protocol designed for end-to-end data transmission over an unreliable network. A TCP connection uses a three-way handshake to connect the client and the server. It is a process that requires both the client and the server to exchange synchronization (SYN) and acknowledge (ACK) packet before the data transfer takes place.

WHAT IS SOCKET PROGRAMMING?

Socket programming is a way of connecting two nodes on a network to communicate with each other. One socket(node) listens on a particular port at an IP, while the other socket reaches out to the other to form a connection.

OBJECTIVE

In this Project, we shall explore the basics of Socket Programming. We shall implement this method to develop a Client-Server File Transfer console Application in Linux. With this project we can understand how low-level network communication works.

DELIVERABLES

1. CODE

The code shall be available via Github links.

2. PROJECT REPORT

We will prepare a Project Report which will explain what TCP Socket Programming is. It will also underline all the steps we took during the implementation of the Application.

The report will also include screenshots of the test run of the application.