In an Operating System, Client Server Communication refers to the exchange of data and Services among multiple machines or processes. In Client client-server communication System one process or machine acts as a client requesting a service or data, and Another machine or process acts like a server for providing those Services or Data to the client machine. This Communication model is widely used for exchanging data among various computing environments like Distributed Systems, Internet Applications, and Networking Application communication. The communication between Server and Client takes place with different Protocols and mechanisms.

- Client: When we talk the word Client, it mean to talk of a person or an organization using a particular service. Similarly in the digital world a Client is a computer (Host) i.e. capable of receiving information or using a particular service from the service providers (Servers).
- Servers: Similarly, when we talk the word Servers, It mean a person or medium that serves something. Similarly in this digital world a Server is a remote computer which provides information (data) or access to particular services.

So, its basically the Client requesting something and the Server serving it as long as its present in the database.

Data synchronization in a client-server network is a crucial process that ensures consistency and coherence of information across multiple devices or clients. The goal is to keep data up-to-date and uniform across the network, even when changes are made by different clients.

Operating systems, client-server communication plays a crucial role in exchanging data and services between multiple machines or processes.

- Sockets Mechanism
- Remote Procedure Call (RPC)
- Message Passing:
- Inter-process Communication (IPC):