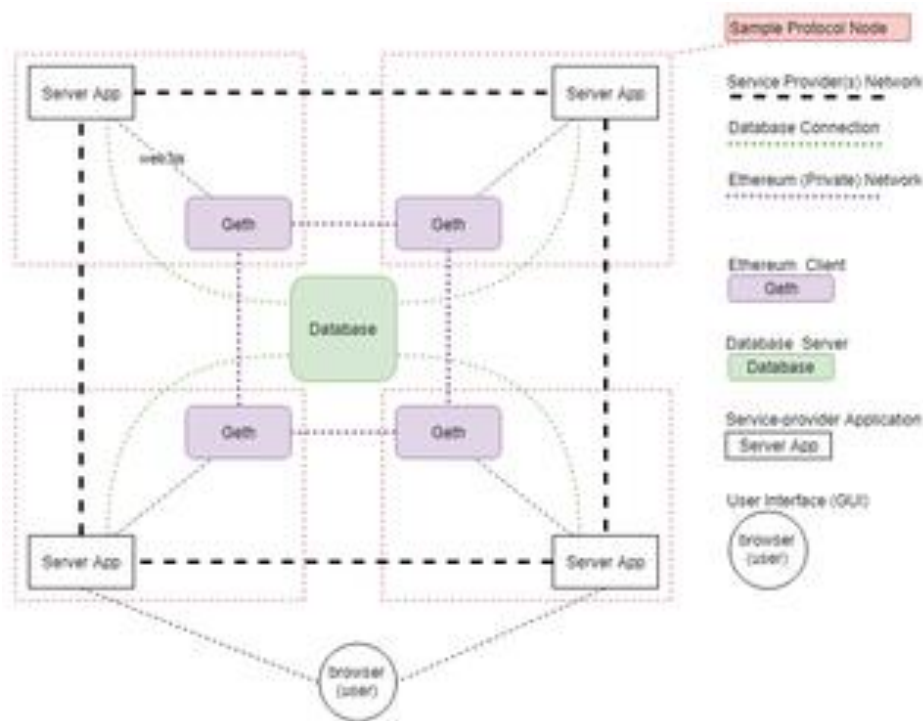# Functional Diadram

Terminology:

- Node - Is an executable software application which connects to a network of similar nodes. For example, Geth is a node in Ethereum network.
- Sample Protocol node (SP-node) - Is the service provider machine executing the needed software components. (like: Geth, MIST and Server-App)
- Server App - Is a server software application belongs to a specific service-provider.

Diagram 1 - Representation of Sample Protocol:

In the diagram above we present 4 Sample Protocol Nodes. The nodes connect to a database server. Users interact with Sample Protocol using a web browser connected to one of the Service providers' Server App.

Sample-Protocol Node consists of and executes other nodes like Geth for private Ethereum network, database node (if SWARM, IPFS or alike is used) and server-provider application software.

Elements Connections:

Server-App connects to other Server-App(s) to form a network of service-providers.

Server-App connects to a local Geth node to interact with blockchain (send transactions, watch events and call contract's functions).

Server-App connects to a mutual database for storing critical data. Server-App may connect to a private database to store its own data.

Geth node connects to other Geth nodes to form a decentralized Ethereum Blockchain network.

Geth node connects to local Server-App

Database node may be centralized database server/provider or a decentralized database node in any case this database stores critical data.

User Browser connects to any one of the service providers node. This is the specific "www" website.