Simple web stack

Server: a server is a piece of computer hardware or software that provides functionality for other programs or devices, called "clients".

Domain Names: are used for different purposes, including application-specific naming, addressing, and in various networking contexts to establish: – Simple identification of hostnames and hosts.

- Domain names provide an easy way to recognize and memorize the names using the numerically addressed Internet resources.
- It is used to address the Internet resources placed on internet or it provides and abstraction that allows the resources to be moved from one place to another in hierarchy.
- It provides a way to move the resources in a topological form and provide the translation to be done using the IP addresses and domain names.
- Domain names provide a way to the registrants to refer to the domain owners for their registration of the domain and have the ownership of it.

Functions of web server:

1. **Stores and secures website data:**

   In web hosting services, a web server stores all website data and secures it from unauthorized users when it is properly configured.

2. **Provides web database access:**

A web server's responsibility is to provide access to websites that are hosted. Web hosting service providers own some web servers that are used in variable ways to provide different web hosting services, such as backend database servers.

3. Serve the end user requests:

Web servers accept requests from different users connected over the internet and serve them accordingly.

4. Bandwidth controlling to regulate network traffic:

It is a feature available in web server to minimize excess network traffic. Web Hosts can set bandwidth values to regulate the rate of data transmission over the internet. This feature avoids the down time caused by high web traffic.

5. Virtual hosting:

Virtual Hosting is a type of web hosting service in which a web server is used to host other software based virtual web-servers web sites, data, applications and other services. Virtualized Web servers do possess this feature to provide virtual hosting.

6. Server side web scripting:

This feature of web server enables the user to create dynamic web pages. The popular server side scripting languages include Perl, Ruby, Python, PHPandASP etc

Role of the application server

An application server is a server that hosts applications or software that delivers a business application through a communication protocol. An application server framework is a service layer model. It includes software components available to a software developer through an application programming interface.

Data Base

The use of a computer database is typically involved in efficient data management. A shared, integrated computer structure, a database stores the following: End-user data i.e. raw data relevant to the end user. Metadata—the data about data, through which end-user data is integrated and managed.

Hypertext Transfer Protocol (HTTP)

Web servers and HTTP (a primer) Web browsers communicate with web servers using the Hypertext Transfer Protocol (HTTP). When you click a link on a web page, submit a form, or run a search, the browser sends an HTTP Request to the server.