

WHAT IS THE 3-TIER ARCHITECTURE

Architecture:

The Structure or Behavior of the System Process Model

like., Planning, Designing, Implementation it is also called Architecture.

For Example:

The Client asked for one Application to give information about what requirements are they want(input).

And that information based to prepare a structure of the process like., planning, designing, implementation(developers, testers, database developers).

And finally to get the results, give a client (output) these process are also based on "The 3-tier Architecture" .

The 3-Tier Architecture:

The 3-Tier Architecture, also known as the three-layer architecture, is a client-server software architecture that separates an application into three distinct layers, or tiers. The purpose of this architecture is to improve modularity, maintainability, scalability, reliability and flexibility of the software system.

The 3-tier Architecture is a combination of Front-end, Back-end, Database

Client-tier(Presentation layer):

This tier represents the user interface of the application and is responsible for presenting data to the user and receiving user input. It includes the graphical user interface (GUI) components, such as web pages, forms, and widgets.

Server-tier(Application or Business layer):

This tier contains the business logic of the application and performs the core processing of the data. It is responsible for processing user requests, retrieving and manipulating data, and performing complex operations. It includes modules such as controllers, services, and APIs.

Data-Tier(Data access layer):

This tier is responsible for managing the data storage and retrieval in the system. It includes the database or file system where data is stored, as well as the data access layer (DAL) that interacts with the database to read and write data.

Front-end:

To represents the user-interface part it is a two parts,

->UI/UX Designing

->Developing

UI/UX Designing:

The client what requirements they want to represent the Designing UI/UX part.

Developing:

To Developing the Applications and Websites to based on the UI/Ux Designing part.

Back-end:

The client request and ask for the browser to through https or api to backend logic part used.

Data base:

request the backend server to database search the information to give to response client.

What is the website?

collection of webpages

web page:

a document written in hypertext that you can see online, using a web browser.

What is the software?

set of Applications is also called as software.

what is the Application?

group of programings is also called as Application.

what is the programing?

Set of instuctions is also called as Programing

what is the Instruction?

To follow the conditon and terms it is also called instruction.

what is the API?

Application Programme Interface it is used to transfer data from client to server layer.

what is the Https?

Hyper text transfer protocol it is used to ask the information on browser through ip address or text wise to application or server layer.

URL:

Uniform Resource Location it is used to find the location of the text

what we want to search for the browser.

what is the ip address?

An internet protocol(IP) address is the unique identifying number assigned to every device connected to the internet.

An IP address definition is a numeric label assigned to devices that use the internet to communicate. And to convert to the text to assign the ip address.

For example:

17.172.224.47 to https://www.amazon.com//

the text is also called domain.

domain:

It is a user convience show the ip address text wise.