MERN Stack Training

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Application: It is a computer program that can perform some task, there are two types of applications

1. Standalone or Desktop
2. Web Application or Distributed

Standalone application: You can use this application only after installing on your machine

ex: MS Word, Antivirus, VSCode editor and so on

Web application: These applications can be accessed over the internet without installing on your machine

ex: Bank Applications, Gmail, twitter, e-commerce website and so on.

How you can access these web applications

You need to access via browser (which itself is another application which is a standalone application that helps accessing any distributed application).



Client & Server



Both client & server are machines, where you can launch or run the applications, but servers are the one who hosts the application and client would send the request to these applications and get the response.

Web application vs Web pages

Web application can produces many web pages, it can perform various tasks and can handle the request & generate the response, these response are shown in web pages

Web application’s can show two kinds of pages

1. Static pages - These contents doesn’t change, it would be common to all the users

ex: Wikipedia

1. Dynamic pages - These contents change at runtime, it would be different for different users

ex: Facebook, Twitter, Online shopping applications, Gmail

Technologies used for static pages & dynamic pages

Static pages can be developed using HTML & CSS

Dynamic pages can be developed using various technologies like Javascript, Servlets, PHP, ASP.net, Django

Various programming languages helps you to develop dynamic web applications

1. Java: Servlets & JSP
2. JavaScript: Node.js & Express.js
3. C#: ASP.net
4. Python: Django.

URL: Uniform Resource Locator, it is used to access any web application over the internet, this is a name for a web application running in any particular server

HTTP: Hyper Text Transfer Protocol, it is used to communicate between the client and the server, it is used to exchange the data in request & response formats, which are also called as HTTP messages

HTTP messages: These are the data exchanged between server & the client, there are two types of http messages

1. Request: Sent by client
2. Response: Sent by server

Request & Response are divided into two sections

1. Header: It will have header information’s of request & response like content-type, accept, length and so on
2. Body: It will have the data, which is very much important for both client & server