If theory of this chapter feels tengthy some topic feels tescape some there we can be concept. There ines just some concept.

@Internet:

Internet 4s a vast network that connects computers all over the world. Through the Internet, people can share Information and communicate from anywhere with an internet connection. The internet consists of technologies developed by different individuals and organizations. Important figures include. Robert W. Taylor, who led the gevelopment of the ARPANET (an early prototype of the internet, and Vinton Cert and Robert Kahn, who developed TCP/IP technologies.

Internet is a short form of technical term internetwork and also often referred to as Net. Internet connects millions of us computers together globally, forming a network in which any computer can communicate with any other computer as long as they both are connected by the any other computer as long as they both are connected to the internet. It consists of private, scope. It is based on Client-Server Architecture. Internet is used for various purposes like Emailing, Social networking, Chat, Information sharing, Entertainment, Online jobs. etc.

Client 1 Web Server Database (Foreg. Mac Os, Laptops PC) (for e.g. Apache web server) (foreg. MySQL) lage in a collection of in pertines is a wine

ret:
Intranet 42 a local or restoricted communication network, especially a private network created using World Wide Web software. It is a computer network for sharing information and other services within an organization. The primary use of intranet is to help employees securely communicate with eachother. Modern intranets use social entranet features that allow employees to create profile, and to submit, like, comment and share posts. An entranet software 98 primarily used by organizations as a tool to: → Share organizational updates

→ Store files -> Connect Employees -> Increase Productivity - Collaborate with Heams, Border Manager

(Multi purpose network security application designed as a proxy server, firewall and VPN).

@ World Wide Web (WWW):-

It is the networked information system that provides a simple way of proposing different types of information such as deat, pictures, video, audio etc. on the internet using hyperlinks. It is the way of accessing information over the medium of the internet. It uses HTTP protocol and utilizes browsers, such as Internet Explorer, firefox, Groughe Chrome, Opera Mini etc. It is a collection of textual documents and other resources, linked by hyperlinks and URLs, transmitted by web browsers and web servers.

@ Web Pages:

Web Page 18 a collection of hyperlinks as a web document found in Internet. It 18 a document commonly written in HTML that 18 accessible through the internet. It 18 accessed by entering a URL address and may contain text, graphics and hyperlinks to other web pages and files. The collection of web pages and web contents 98 called website. Web Pages can be static or dynamic.

Static Web Pages: It 98 sometimes called a flat page or stationary page also. It 48 a page that is built using HTML code and features the same presentation and content, regardless of user Adentify or other factors. It 18 very difficult to manage the static web pages because web pages should be edited in the Server to change the content. A state web page 48 ready before It is accessed. Static web pages are easer to code and assemble. than dynamic web pages, which may feature customizable content according to a user's adentity or other factors.

19) Dynamic Web Pages: It 48 a web page that displays different content each time 4/15 viewed. It 48 very easy to manage because web pages can be editifed asisty from dashboard without editing on the server to change the content. Dynamic web pages are generally rendered by database operations in the Server. The content of a dynamic web page 28 generated by server each time 11 18 accessed. Dynamic web pages are a bit complex to code and assemble than static web pages. D. Web Clients:

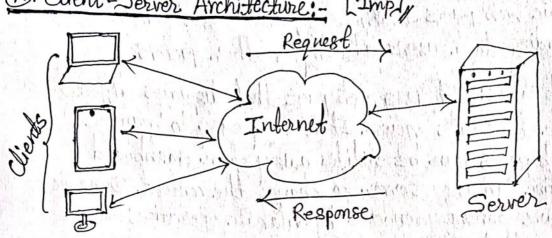
the wife of Web client as any device such as computer or mobile phone that uses web browser and requests a web server for web resources. A web browser can be considered as a web client. Web client 48 an application that uses HTTP to communicate with web server. The server sends requested resource back to the web client. necessaring, the dole is "

Dheb Servers:

Web sorver 93 a computer or computer software that listens and responds to a clients computer request made through a web browser. It 18 a machine that hosts web pages and other web documents. It provides web documents and other online services using HTTP. Web server can contain one or more websites. The primary function of web server 48 to store, process and deliver web pages to web clients. Pages delivered style sheets, texts, and hyperlinks to other web pages and files. Functions of web servers:

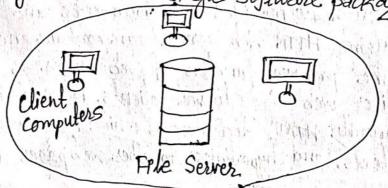
-> Stores and secures website data
-> Provides web database access.
-> Serve the end user requests.
-> Bandwith controlling to regulate networks traffic.
-> Virtual hosting.
-> Server side web scripting.

-> Client-Server Architecture:- [Imp]

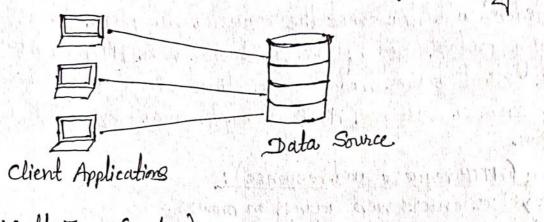


on which client requests server for resources. Server hosts, delivers and manages most of the resources and servers to be consumed by the client. It has one or more clients connected to a central server over a network or internet connection. WWW 48 based on this architecture.

One Teer > In one feer the user enterface, marketing logic and data logic are present in the same system. This kind of service 18 reasonable. The data 18 usually stored in the local system or a shared drive. Completely unscalable and only one user can access the system at a given time via the local client. It consists of presentation, business and data access layers within a single software package.



Two Trer-In this architecture, client and server have to come on direct incorporation. If a client is giving an input to the server, there shouldn't be any intermediate. It is considered as affordable architecture. Multiple users can connect to the server at once. It is not suitable for security reasons.

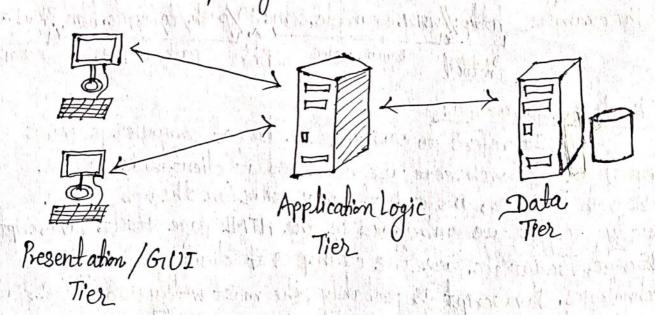


980) Multo Tier (N-tier):

N-tier architecture 18 really 3 tier architecture.

In which the middle fier may or may not be split up into new tiers.

The application fier 18 broken down into separate parts. The primary advantage of N-tier architectures 18 that they make load balencing possible. A fired N-tiered architectures are also more easily scalable, since only servers experiencing high demand, such as application server, need be upgraded. The primary disadvantage of N-tier architectures is that it is also more difficult to program and test an N-tier architecture due to its increased complexity.



HTTP stands for Hyper Text Transfer Protocol. It defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands. For example, when we enter a URL in our browser, this actually sends an HTTP command to the web server directing it to fetch and transmit the requested web page. It is underlying protocol used by the world wide web. HTTP is based on the client-server model where client sends a request and server sends a response. HTTP is implemented over a TCP connection.

Working: (HTTP request and response):

User enters web address on browser.

-Browsez uses DNS to locate IP address.

Browser opens TCP connection to server.

-> Browsez sends HTTP request over connection.

-> Server sends HTTP response over connection. -> Browser displays body of response on browser window of client,

Merch Replications

URL stands for Uniform Resource Locator. A URL 48 nothing more than the address of a given unique resource on the web.

Such resources can be HTML page, a CBS document, an image etc.

URL 48 a form of URI and standardized naming convention for addressing documents accessible over the Internet and Intranet.

For example: http://www.example.com: 80/path/to/myfile.html?key1=value1

Protocol Domain name Port path to file parameter

Ecripts) on the web that are executed at client-side, by the user's web browser, instead of server-side (on the web server). Usually scripts are embedded in the HTML page itself. Javascript, VBS cript, Jacript etc. are the examples of client side scripting technologies. Javascript is probably the most widely used client-side scripting language.

In client-side scripting the source code 93 transferred from the web server to the users computer over the enternet and run directly on the browser. The scripting language needs to be enabled on the client computer. Sometimes If a user 18 conscious of security risks they may switch the scripting facility off.

@. Server Side Scripting:

It Includes writing the applications executed by the server at run-time to process client input or generate document in response to client request. So the server side scripts consist the directives embedded in web page for server to process before passing page to requestor. It is usually used to provide interactive web sites that interface to databases or other data stores. PHP, ASP, Java, Python etc. are mainly used languages for server side scripting. The primary advantage to server-side scripting Is the ability to highly customize the response based on the user's requirement, access rights, or queries into data stores.

@ Web 1.0 vs. Web 2.0

Web 1.0

-> It 98 the "readable" phrase of world wide web with flat data.

> There 18 only limited Interaction between sites and web users,

> It 48 simply an information portal where users passively receive information without being given the oppurtunity to post reviews, comments and feedback.

Web 2.0

→ It 18 the "writable" phrase of the world wide web with interactive data.

-> there as unlimited anteraction between sites and web users.

> It encourages participation, collaboration and information sharing.

→ Eg. Youhibe, Wiki, Facebook, Flickr

and so on.