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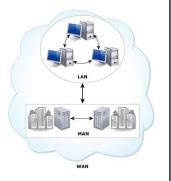
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Introduction of Web

- The Internet is a vast, international network, made up of computers and the physical connections (wires, routers, etc.) allowing them to communicate.
- The World Wide Web (WWW or just the Web) is a collection of software that spans the Internet and enables the interlinking of documents and resources.

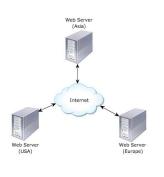
Evolution of web

- •The growth of computing expanded in multiple.
- Organizations connect together to share data.
- •This makes the beginning of computer networks.



Web and Internet

- WANs raised a strong need about global data sharing
- •This resulted referred as WWW.
- •Internet is known as the largest WAN.



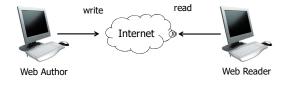
Web can be classified

- Web 1.0.
- Web 2.0.
- Semantic Web.

Web 1.0



- To be Known as traditional web.
- Authors write/publish content on the web.
- The published content has read-only format.
- Posing the problem of User interactivity.

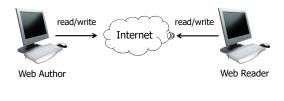


Web 2.0

- Web 2.0 also called as the read-write web.
- Readers can interact the authors by providing comments, blogs, queries, rating and so on.

Web 2.0

- It's great platform for the readers to share their viewpoints with the authors.
- The Web space is limited in web 1.0 and 2.0.

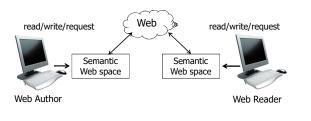


Static web pages

- •Static web pages have a limitations.
- Difficult to maintain.
- Updated manually.
- Inconsistency.
- Don't allow any user interaction.

Semantic web

- •Concept to be expected as the future of web.
- It is the read-write-request web.
- •The user can send the request for Web space.



Dynamic web pages

- Include static as well as dynamic web pages.
- Allows customizing the content and its appearance in the browser.
- Geneates content "on-demand".
- Accepts the user inputs through web browser.
- Serveral technologies envoled to make web sites more flexible and dynamic.
- Variety device such as PDAs, Cell phones, and so on is used XHTML Documents

Types of Web Application

- Static Web Application
- Dynamic Web Application
- Shop online or e-commerce
- Portal Web Application
- Animation Web Application
- Web Application with CMS

Server-Side Code

- Languages/frameworks include but are not limited to Ruby (Rails), Javascript (Node.js), Python (Django), PHP, C#, and Java; but the list of possibilities is infinite. Any code that can run on a computer and respond to HTTP requests can run a server.
- Stores persistent data (user profiles, instatweets, mybook pages, etc.).

Web Application architecture

• WWW use classical client / server architecture

• HTTP is text-based request-response protocol

HTTP

Client running a
Web Browser

Server running Web
Server Software
(IIS, Apache, etc.)

Server-Side Code

- Cannot be seen by the user (unless something is terribly wrong).
- Can only respond to HTTP requests for a particular URL, not any kind of user input.
- Creates the page that the user finally sees (this is generally only true in web applications that choose to render most of their layouts on the server)

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Client-Side Code

- Languages used include: HTML, CSS, and JavaScript.
- Parsed by the user's browser.
- Reacts to user input.
- Can be seen and edited by the user in full.

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Introduction to Web Services

- A Web service is a software module that has a URL or an Internet address so they can be called upon to perform a operation via the Internet.
- One Web service makes a request of another Web service to perform its task or tasks and pass back an answer creating a highly distributed system.
- using XML based messages via internet-based protocols.
- Web Services are latest distributed technology

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Client-Side Code

- Cannot store anything that lasts beyond a page refresh.
- Cannot read files off of a server directly, must communicate via HTTP requests.
- Creates the page that the user finally sees (this is generally only true in single page applications).

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Introduction to Web Services

- Benefits of Web Services:
 - Loosely Coupled
 - Ease of Integration
 - Service Reuse

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