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DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

COURSE NAME: 19CT503 – Internet Programming

III YEAR /V SEMESTER

Unit 1- WEBSITE BASICS

Topic : HTTP request and response message

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HTTP



- HTTP stands for **HyperText Transfer Protocol**.
- It is a protocol used to access the data on the World Wide Web (www).
- The HTTP protocol can be used to transfer the data in the form of plain text, hypertext, audio, video, and so on.
- This protocol is known as HyperText Transfer Protocol





- HTTP is similar to the FTP as it also transfers the files from one host to another host.
- HTTP is used to carry the data in the form of MIME-like format.
- HTTP is similar to SMTP as the data is transferred between client and server.





Features of HTTP

- Connectionless protocol
- Media independent
- Stateless







Messages

• HTTP messages are of two types: request and response. Both the message types follow the same message format.







Request Message:

The request message is sent by the client that consists of a request line, headers, and sometimes a body.

Response Message:

The response message is sent by the server to the client that consists of a status line, headers, and sometimes a body.







HTTP Request

HTTP Response







HTTP Request





HTTP/1.1 200 OK

Date: Thu, 20 May 2004 21:12:58 GMT Connection: close Server: Apache/1.3.27 Accept-Ranges: bytes

Content-Type: text/html Content-Length: 170 Last-Modified: Tue, 18 May 2004 10:14:49 GMT

<html> <head> <title>Welcome to the Amazing Site!</title> </head> <body> This site is under construction. Please come back later. Sorry! </body> </html>

Status Line

General Headers

Response Headers

Entity Headers

HTTP Response

Message Body

HTTP Response

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Uniform Resource Locator (URL)

- A client that wants to access the document in an internet needs an address and to facilitate the access of documents, the HTTP uses the concept of Uniform Resource Locator (URL).
- The Uniform Resource Locator (URL) is a standard way of specifying any kind of information on the internet.
- The URL defines four parts: method, host computer, port, and path.







Method:

The method is the protocol used to retrieve the document from a server. For example, HTTP.

Host:

The host is the computer where the information is stored, and the computer is given an alias name.



- Port:
 - The URL can also contain the port number of the server, but it's an optional field.
 - If the port number is included, then it must come between the host and path and it should be separated from the host by a colon.
- Path:
 - Path is the pathname of the file where the information is stored.
 - The path itself contain slashes that separate the directories from the subdirectories and files.





THANK YOU

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