



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

19CSB302- COMPUTER NETWORKS

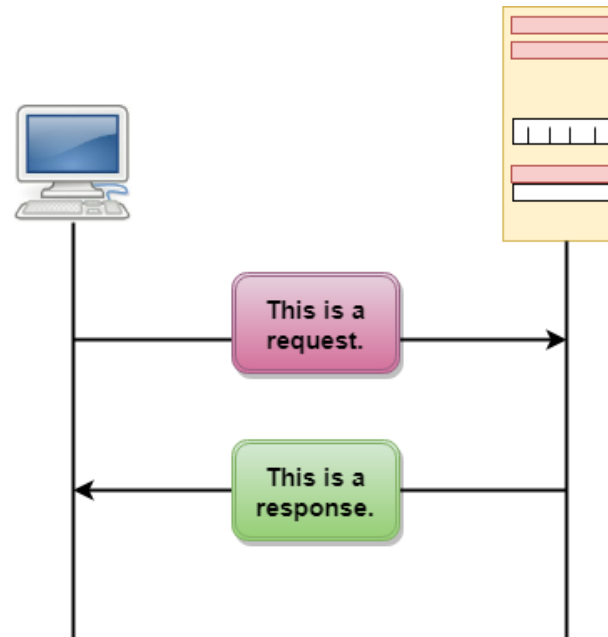
UNIT-5 APPLICATION LAYER



Hyper Text Transfer Protocol(HTTP)



- The HyperText Transfer Protocol (HTTP) is a set of rules used to define how the client- server programs communicate with each other to retrieve web pages from the Web.
- 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.





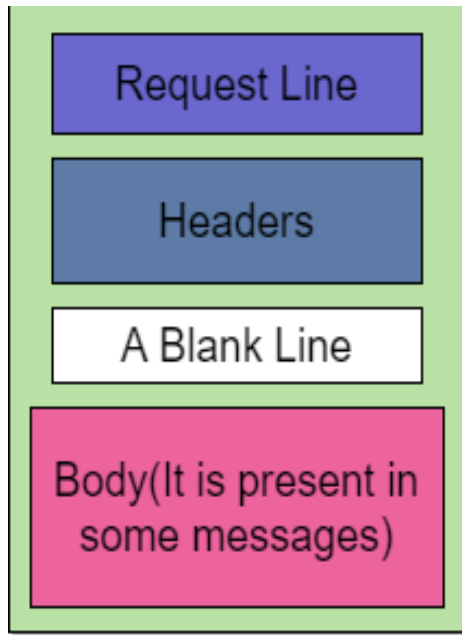
Http Features



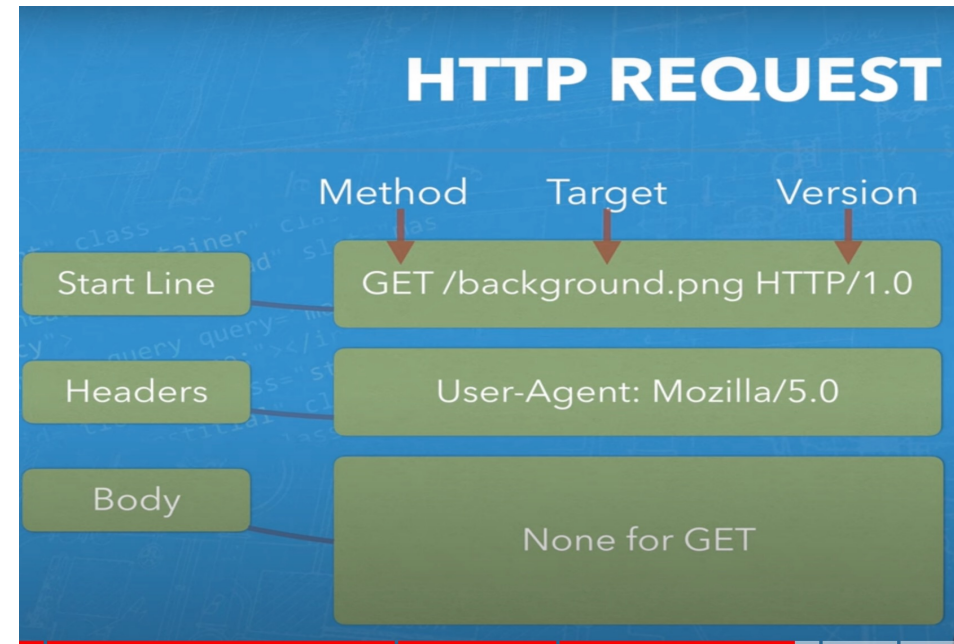
- Connectionless Protocol
 - The connection between client and server exist only during the current request and response time only.
- Stateless Protocol
 - HTTP is a stateless protocol as both the client and server know each other only during the current request.
- Media Independent



HTTP Request Message

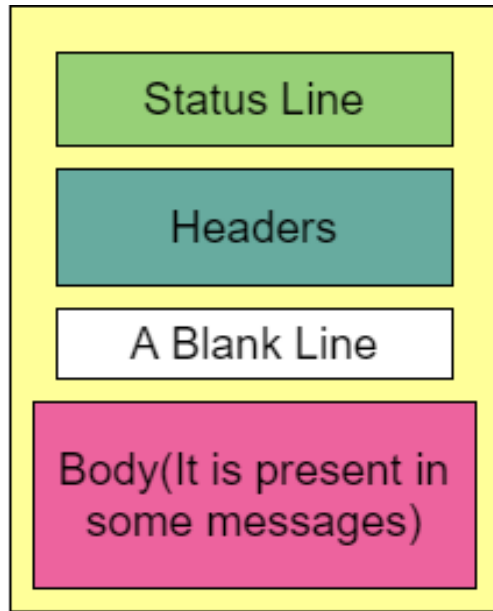


Request Message

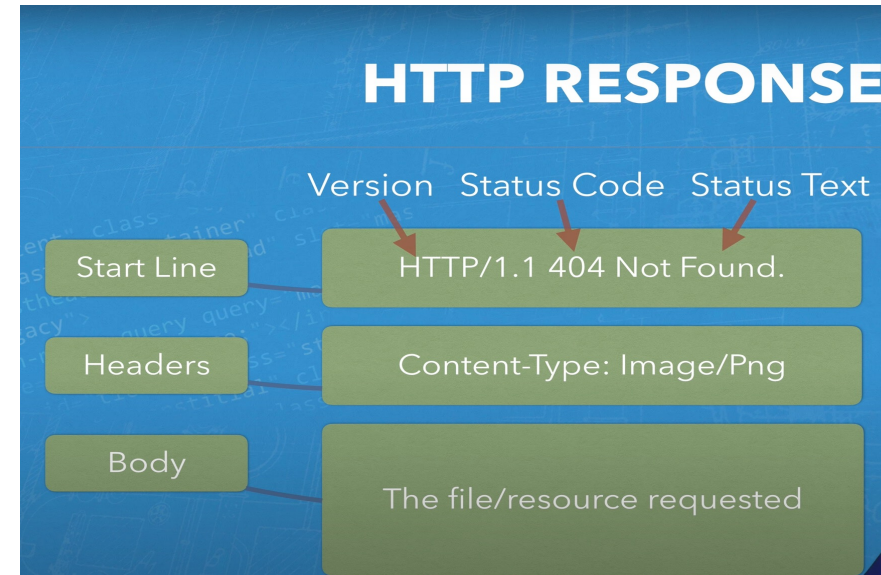


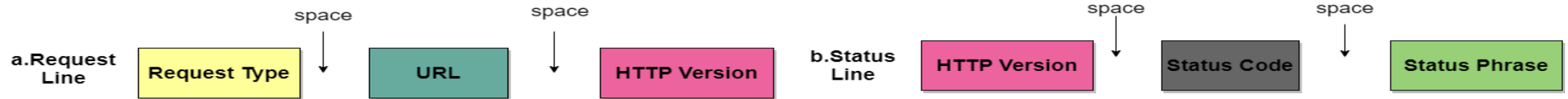


Http response Message



Response Message

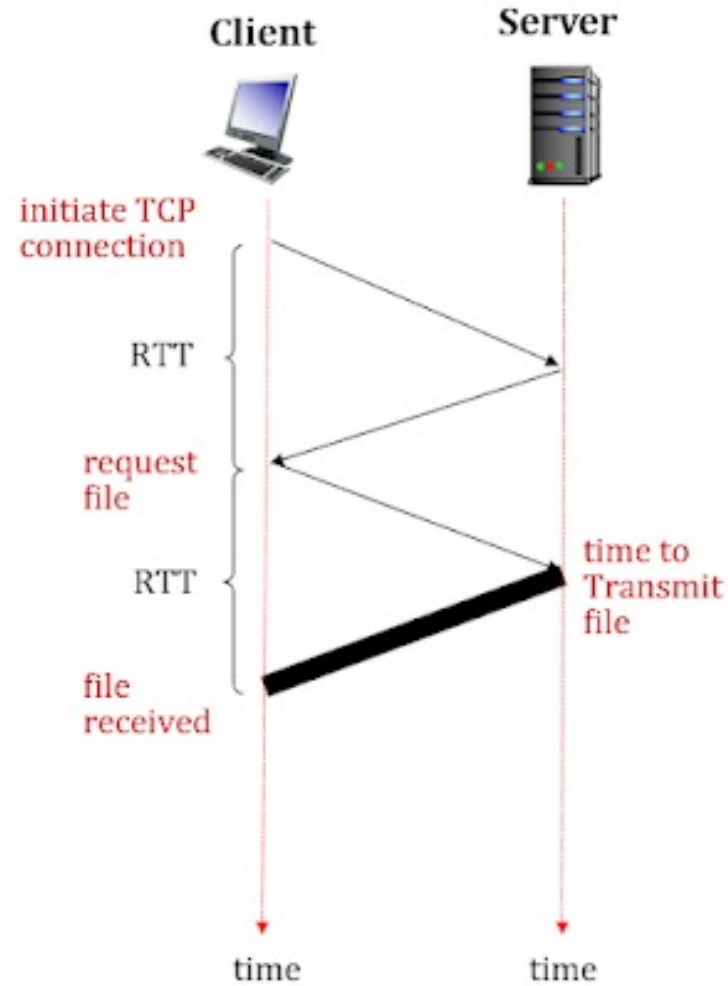


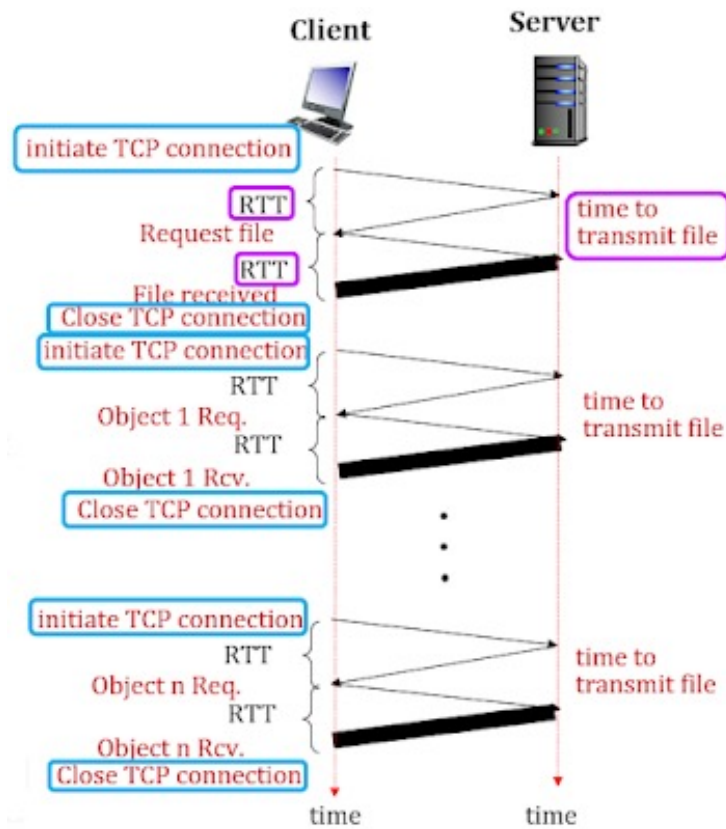


- There are three fields in this request line - *Method*, *URL* and *Version*.
 - The Method field defines the request types.
 - The URL field defines the address and name of the corresponding web page.
 - The Version field gives the version of the protocol; the most current version of HTTP is 1.1.
- The first field defines the version of HTTP protocol, currently 1.1.
 - The status code field defines the status of the request. It classifies the HTTP result. It consists of three digits.
 - 1xx–Informational, 2xx– Success, 3xx–Redirection, 4xx–Client error, 5xx–Server error
 - The Status phrase field gives brief description about status code in text form

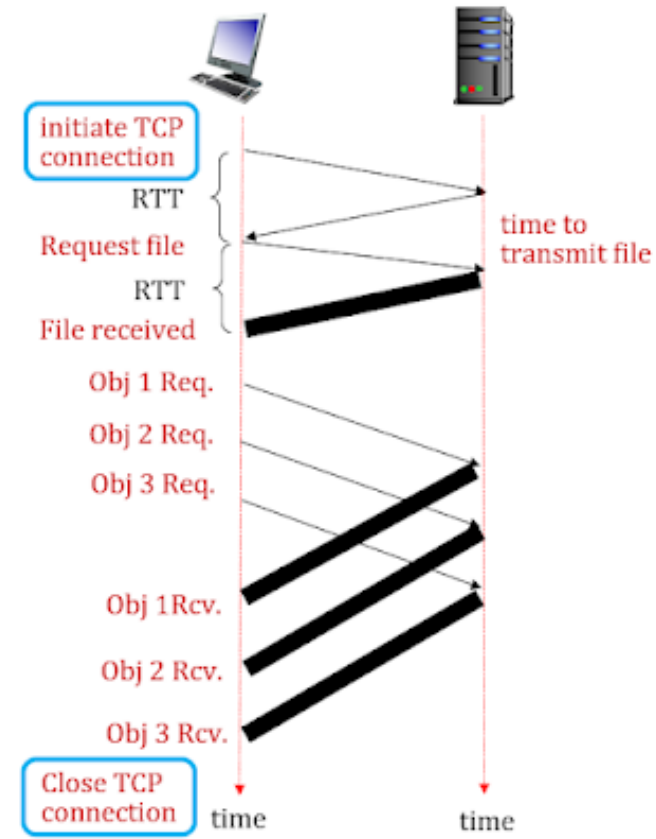


Http Connection





Non-Persistent



Persistent



Http Cookies



HTTP is stateless , Cookies are used to add State. To Help websites remember you and your preferences

An **HTTP cookie**(**Unique ID** also called **web cookie**, **Internet cookie**, **browser cookie**, or simply **cookie**) is a small piece of data sent from a website and stored on the user's computer by the user's web browser while the user is browsing.

Cookies were designed to be a reliable mechanism for websites to remember stateful information (such as items added in the shopping cart in an online store) or to record the user's browsing activity (including clicking particular buttons, logging in, or recording which pages were visited in the past).

