



SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore – 641 107

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 COMPUTER SCIENCE AND TECHNOLOGY

COURSE NAME: 19CT503 – Internet Programming

III YEAR /V SEMESTER

Unit 1- WEBSITE BASICS

Topic : Web clients-web servers

Web Clients

- **web clients** is an application software that allows us to view and explore information on the web.
- User can request for any web page by just entering a URL into address bar.
- Web clients can show text, audio, video, animation and more. It is the responsibility of a web browser to interpret text and commands contained in the web page.

- Earlier the web clients were text-based while now a days graphical-based or voice-based web browsers are also available.

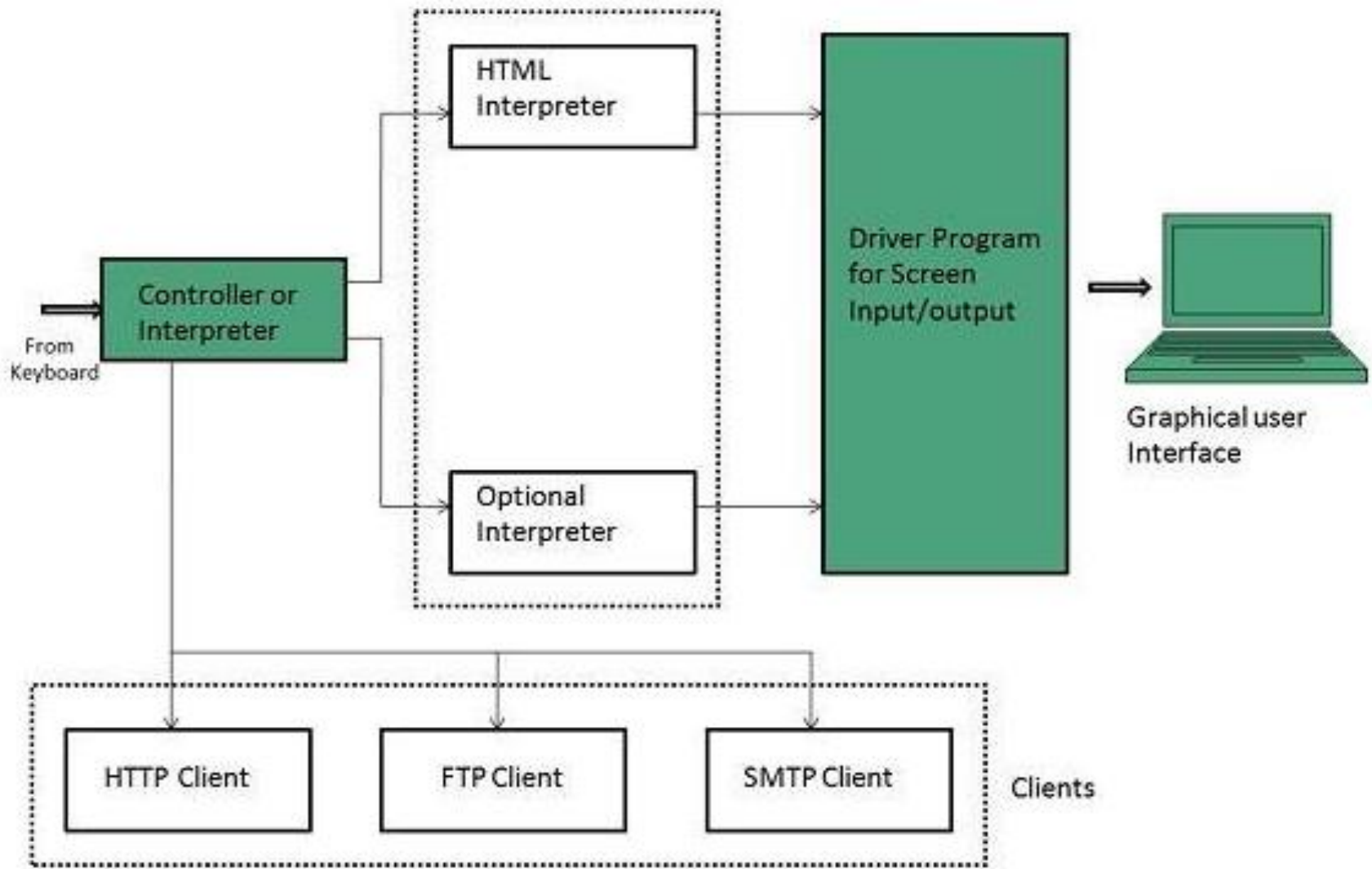
Browser	Vendor
Internet Explorer	Microsoft
Google Chrome	Google
Mozilla Firefox	Mozilla
Netscape Navigator	Netscape Communications Corp.
Opera	Opera Software
Safari	Apple
Sea Monkey	Mozilla Foundation
K-meleon	K-meleon

Architecture

- There are a lot of web browser available in the market.
- All of them interpret and display information on the screen however their capabilities and structure varies depending upon implementation.
- Basic components includes:
 - Controller/Dispatcher
 - Interpreter
 - Client Programs

- **Controller** works as a control unit in CPU. It takes input from the keyboard or mouse, interpret it and make other services to work on the basis of input it receives.
- **Interpreter** receives the information from the controller and execute the instruction line by line.
- Some interpreter are mandatory while some are optional For example, HTML interpreter program is mandatory and java interpreter is optional.

- **Client Program** describes the specific protocol that will be used to access a particular service. Following are the client programs that are commonly used:
 - **HTTP**
 - **SMTP**
 - **FTP**
 - **NNTP**
 - **POP**



Web server

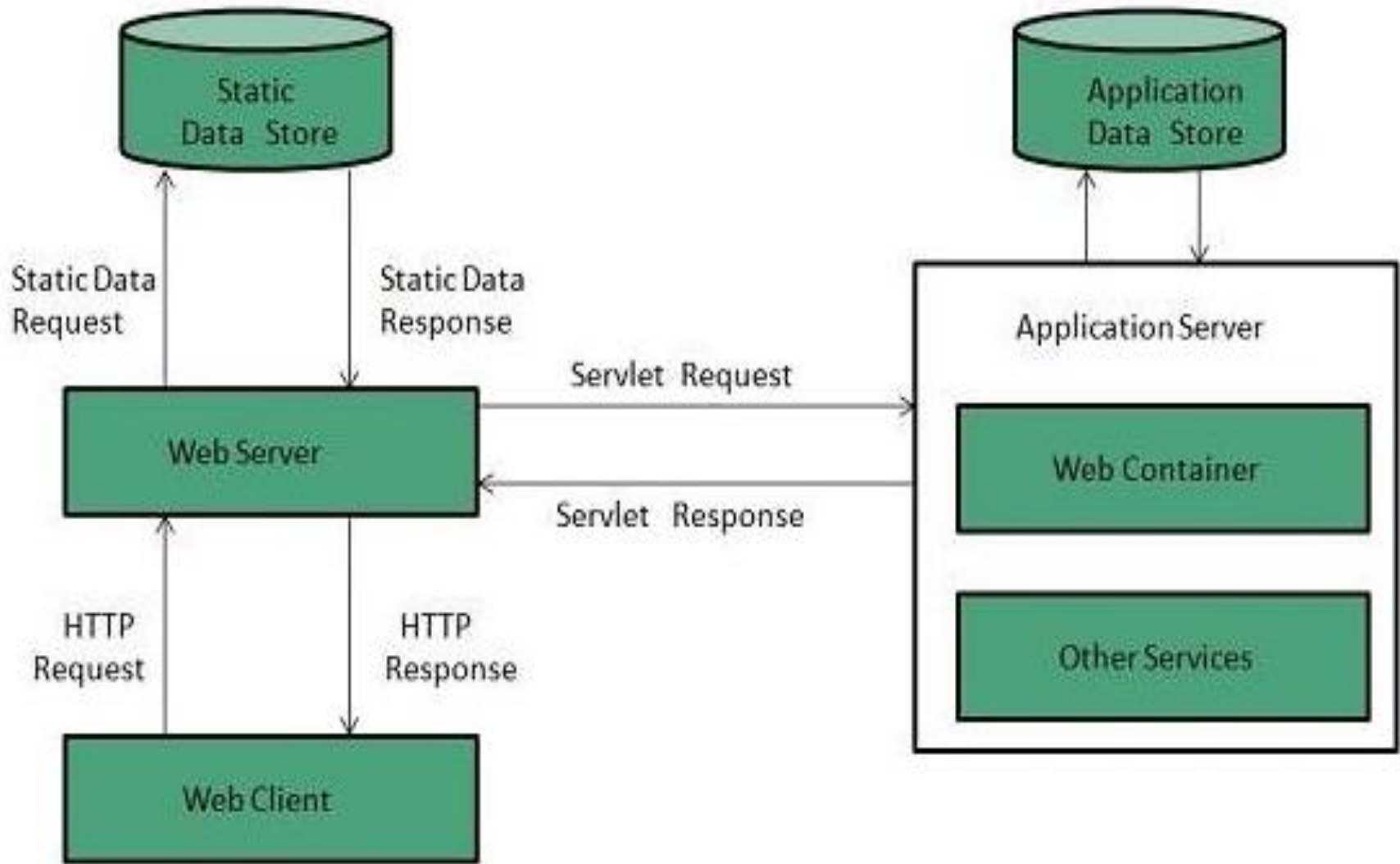
- Server is a device or a computer program that accepts and responds to the request made by other program, known as client.
- It is used to manage the network resources and for running the program or software that provides services.
- Web server contains only web or servlet container.

- It can be used for servlet, jsp, struts, jsf etc.
- It can't be used for EJB.
- It is a computer where the web content can be stored.
- In general web server can be used to host the web sites but there also used some other web servers also such as FTP, email, storage, gaming etc.

- Examples of Web Servers are:
 - **Apache Tomcat and Resin**
 - **Internet Information Services**
 - **Lighttpd**
 - **Sun Java System Web Server**
 - **Jigsaw Server**

Web Server Working

- It can respond to the client request in either of the following two possible ways:
- Generating response by using the script and communicating with database.
- Sending file to the client associated with the requested URL.



- **Important points**
- If the requested web page at the client side is not found, then web server will send the HTTP response: Error 404 Not found.
- When the web server searches the requested page if requested page is found then it will send to the client with an HTTP response.
- If the client requests some other resources then web server will contact to application server and data is stored for constructing the HTTP response.



THANK YOU