

(ASP) ACTIVE SERVER PAGE

(1)

ASP developed in Nov. 1996 by Microsoft
An ASP File can contain text, HTML tags
and scripts. Scripts are executed on the server, and ASP is a program
that runs inside IIS. Where IIS stand is
Internet Information Services.

Definition ASP is a mixture of HTML and
scripting that enable you to build
dynamic and database driven.

Where Microsoft describe

ASP is a server-side scripting environment
that we can use to create and run
dynamic interactive, high performance,
web server application.

[What is a server]

A server is a computer (high speed & high
configuration) that allow computer in a network to have a
shared resources.

most server is the ~~area~~ ~~can~~ used to
share files, to run program, to share printer

→ Different type of server

PDC - Primary Domain Controller

BDC - Backup domain controller

file server, print server, Application server

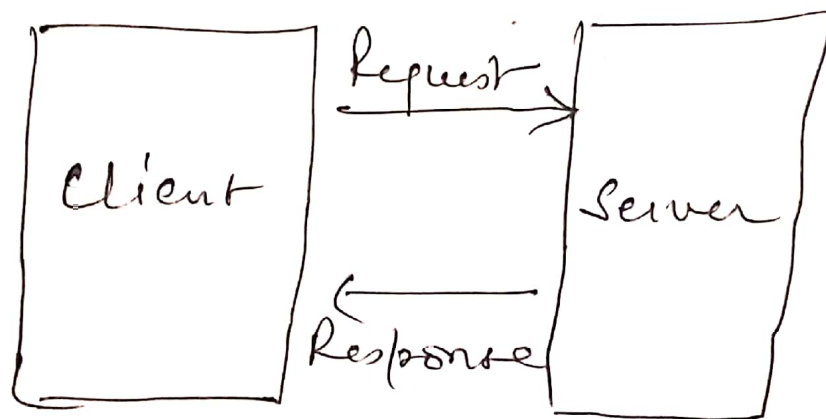
(body) < /HTML >

(ADO - ActiveX Data Object) (ADO.NET - ActiveX Data Object .NET)

Client/Server model

This model is a concept for describing commⁿ. between computing processes that are classified as service consumer (clients) and service provider (server).

" Client/server describe the relationship b/w two computer program in which one program the client make a services request from another program, the server which fulfill the request.

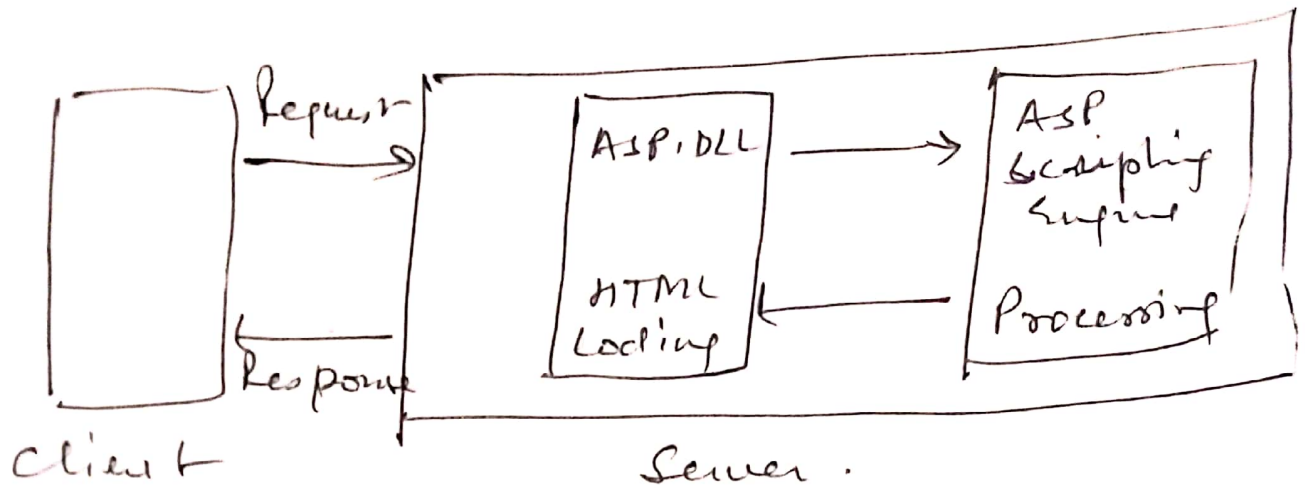


Client/Server model.

Client side scripting - The client process CSS. It is the client's responsibility to execute all client side scripts. Client side scripting is programmatic code in an HTML file that run on the browser.

Server side scripting - SSS are processed completely on the web server.

How does the Server process ASP scripts ③



ASP Script using `<% ... %>` inside

→ ① After you have installed IIS or PWS follow step.

→ ② Write some asp code and save the file as first.asp.

→ open ~~the~~ your browser and type
"http://localhost/first.asp"

→ response. write command is just like the printf. ~~command~~ command in C.

Ex `<HTML>`
`<head>`
`<title> first- ASP Page` `<title>`

`</head>`

`<body>`

`<%`

response.write("Welcome to first-
page of ASP Program!")

`%>` `</body>` `</HTML>`

ASP. Net

(4)

ASP stands for Active Server Pages. and ASP. Net is the next generation of ASP. After the introduction of ASP. Net, old ASP is called Classic ASP.

ASP

- ① ASP uses Vb script - for the server side coding
- ② Vb script - is a simple scripting language.
- ③ There was no server control. You have to write all HTML tags.
- ④ ASP uses Vb script, there is no compilation. All ASP pages are interpreted when the page is called.
- ⑤ It uses a technology called ADO to connect with databases.
(ADO - Active X Data Object)

ASP. Net

- Vb script not supported in ~~ASP. Net~~
- ASP. Net support more lang include C#, VB. Net, J#.
- VB. Net or C# are very powerful OOP languages.
- It much more robust and reliable program.
- It offer a very rich set of control called Server Controls and HTML Controls.
- It automatically write the required HTML tag automatically.
- It can be compiled to efficient MSIL. You compile ASP. Net application.
- The server side code is compiled to assemblies. It loaded at run time.
- ASP. Net - uses the ADO. Net ~~tech~~ technology.
- (ADO. Net - Active X Data Object . Net)

⑥ Event driven programming
load not available
Drag and Drop facilities
"on click" event handler

ASP.Net you can write
event handler for several
events like button clicks,
text change events

⑦ In the ASP, HTML generated
on the page, HTML generated
by this logic to be output

• .Net framework provides a
very clean separation of code
from content.

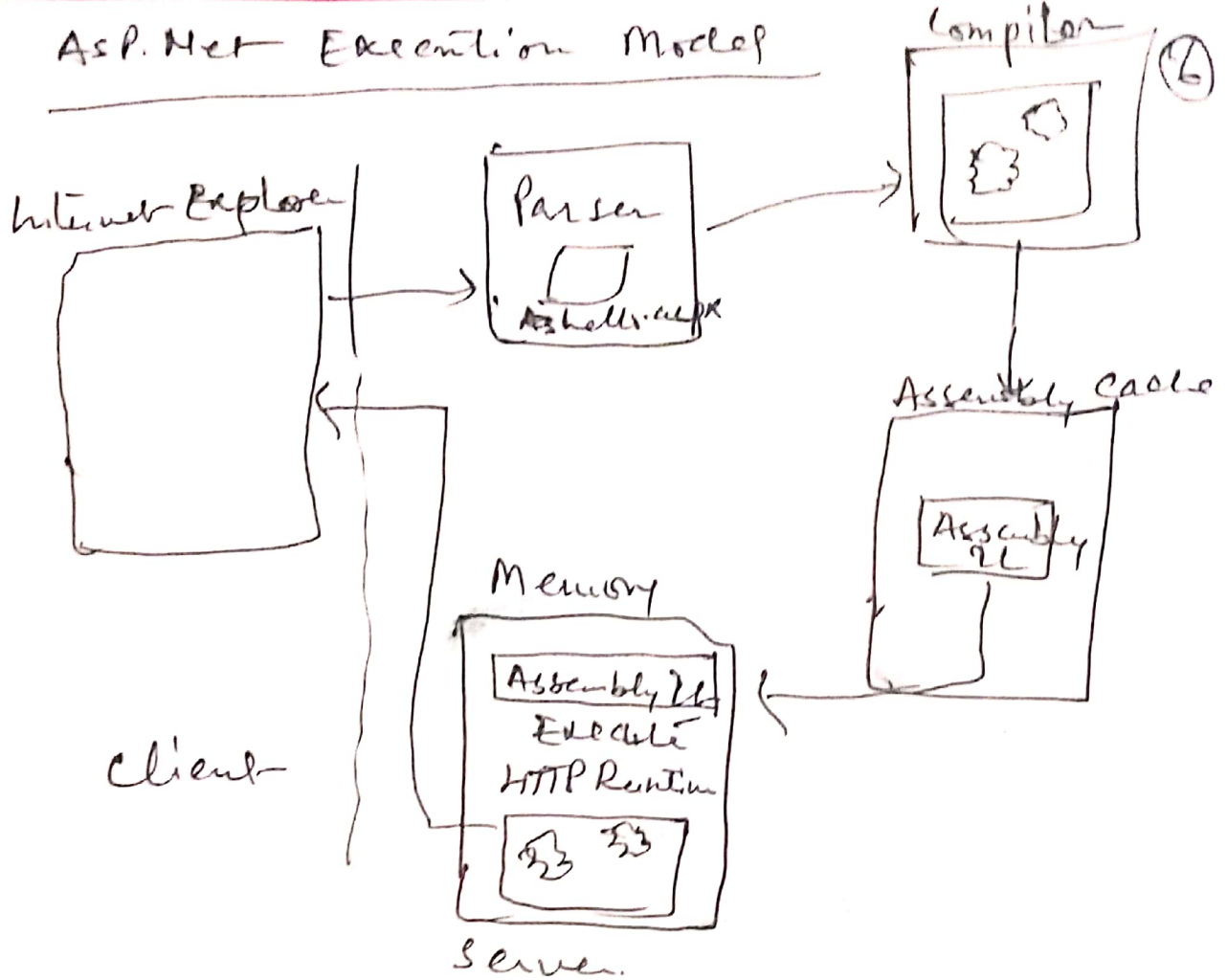
Features of ASP.Net

- Better Language support
- Programmable Controls
- Event driven programming
- XML based Components
- User authentication with accounts and roles.
- Higher scalability
- Increased performance
- Easier configuration
- NOT fully ASP compatible
- Easy Deployment, Compatibility

Language Support

- ASP.Net use ADO.Net
- ASP.Net support full VB, not VB script
- ASP.Net support C#
- ASP.Net support JSP.

ASP.NET Execution Model



- When the client requests a web page for the first time, the following set of events takes place.
- Client browser issues a GET HTTP request to the server.
- The ASP.NET parser interprets the source code.
- If the code was not already compiled into a dynamic link library (DLL), ASP.NET invokes the compiler.
- Runtime loads and executes the MSIL code that was already compiled during the first access attempt.