What is ASP

• Active Server Page (ASP) is a web server application development technology
• ASP is an open framework in which you can combine HTML, scripts and reusable ActiveX server components to create dynamic and powerful web pages

Benefits of ASP

• ASP complements client side scripting.
• ASP development is easy to learn.
• With the ASP development environment, you can easily leverage existing investments skills
• ASP development is compile free.
• The ASP environment is extensible.

How ASP compare with similar web development technologies

• Common Gateway Interface (CGI)
• Internet Server Application Programming Interface (ISAPI)
• Internet Database Connector (IDC)
• Windows CGI (WinCGI)
How does ASP work

Client requests ASP page

Page send to engine for parsing

Global.asa is requested and run as necessary

‘Object has moved: 302’

Error occurred in ASP code

Correctly formed HTML page

An HTML and Client-side Script page is returned to the browser

Client Server ASP Scripting host

ASP Structure and Syntax

An ASP application primarily consists of the following elements:

- Server-side includes (optional)
- HTML code
- Script delimiters
- Script code
- ActiveX components (optional)
- ASP objects (optional)

ASP Structure and Syntax (cont)

```xml
<%@ LANGUAGE="VBSCRIPT" %>

<SCRIPT RUNAT=SERVER LANGUAGE=VBSCRIPT>
    Sub SayHello ()
        Response.Write("<H1>Hello! Today's date is " & Date & " </H1>")
    End Sub  </SCRIPT>

<HTML>  <HEAD> <TITLE> Syntax of ASP Applications </TITLE> </HEAD>

<BODY bgcolor="white">
    <!-- insert HTML here -->

    <%= "<H2>This line of text is displayed as output </H2>" %>
    <%  Call SayHello ()
        Response.write("<HR>")  %>

</BODY>  </HTML>
```
ASP Structure and Syntax (cont)

ASP has three delimiters

- "<%" and ">%" is used to separate blocks of ASP code from the rest of a web page.
- "<%= " and ">%=" is used to display the value of an expression or variable
- "<Script>" and "</Script>" delimiter is used to define the ASP Script blocks and specify the scripting language if you don’t want to use VBscript.

ASP Structure and Syntax (cont)

ASP has five build-in objects:

- Request -- to get information from the user
- Response -- to send information to the user
- Server -- to manage server object, HTML streams, and URLs
- Session -- to store temporary information used during the course of a user session.
- Application -- to share application-level information and control settings for the lifetime of the application.

Programming Web Database with ASP

Step 1: Create an Instance of the Connection Object.
Set DatabaseConnection = Server.CreateObject("ADODB.Connection")

Step 2: Open the connection to the Database
DatabaseConnection.open "FILEDSN=mydata.dsn"

Step 3: Issue SQL Commands to the Database
DatabaseConnection.Execute "<SQLStatementGoesHere>"

Step 4: Close the Data Connection
DatabaseConnection.Close
Set DatabaseConnection = Nothing

The next generation: ASP+

- Drawbacks of ASP
- ASP+ is almost entirely component based and modularized
- Every page, object, and HTML element you use can be a runtime component object
- Access the component objects in a far more granular and controlled manner
Thank you