outline

- What is ASP?
- Benefits of ASP
- How ASP compare with similar web development technologies
- ASP structure and syntax
- Programming web database with ASP
- The next generation: ASP+

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**
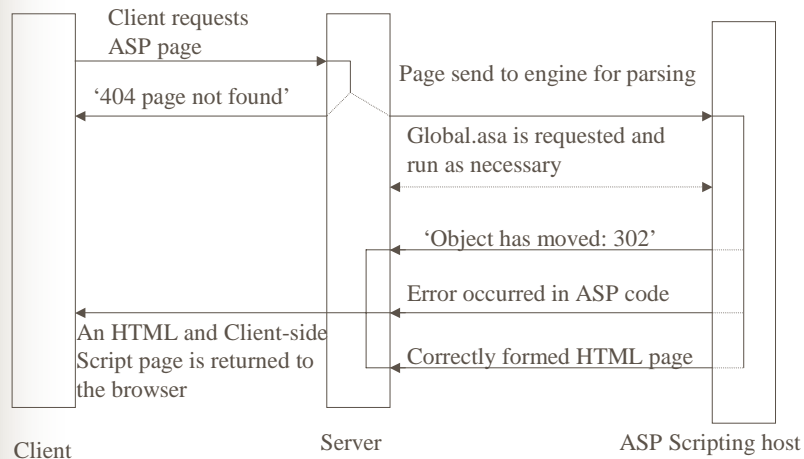
Benefits of ASP

- **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

'404 page not found'

Page send to engine for parsing

Global.asa is requested and
run as necessary

'Object has moved: 302'

Error occurred in ASP code

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

Correctly formed HTML page

Client   Server   ASP Scripting host
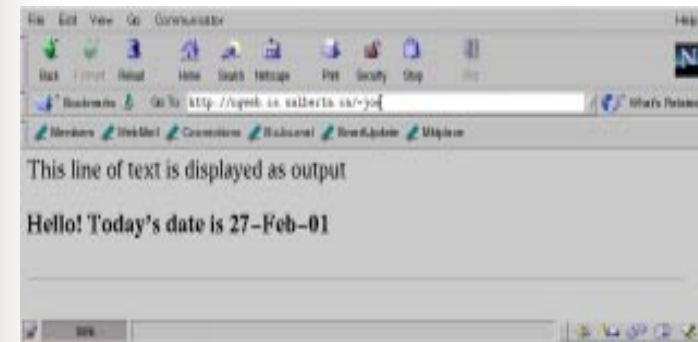

ASP Structure and Syntax

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)

```
<%@ 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 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