

## *Agenda*

---

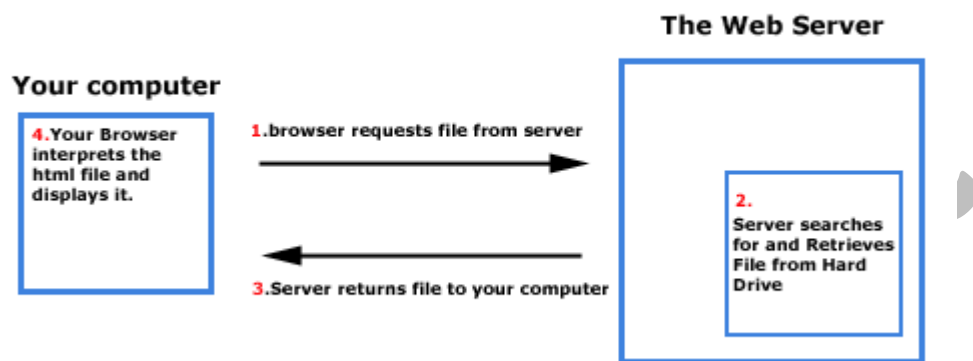
1. *Introduction to ASP*
2. *How ASP works*
3. *ASP Objects*
4. *Installing IIS on Windows 7 or Windows 8*
5. *Sample Programs*
6. *Importance of Form tag and how it works.*

Deccansoft

## ASP Introduction

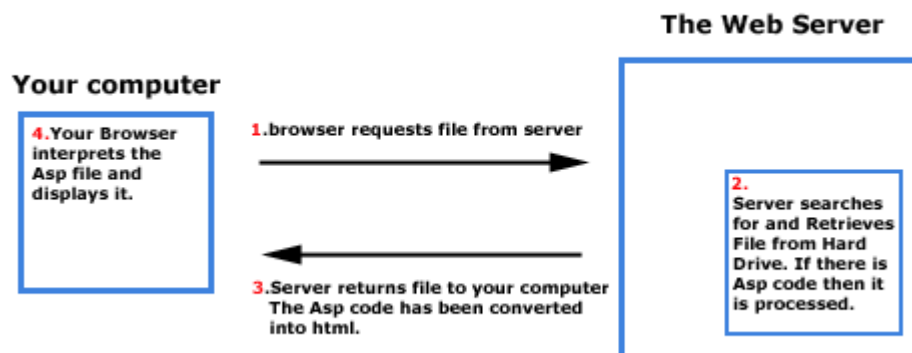
- ASP is a server side scripting technology that enables scripts (embedded in web pages) to be executed by an Internet server
- An ASP file can contain text, HTML, XML, and scripts
- An ASP file has the file extension ". asp"
- When a browser requests an HTML file, the server just returns the file without doing any processing.

### How a Html page is displayed



- When a browser requests an ASP file, IIS passes the request to the ASP engine (ASP.DLL) on the server.

### How an Asp page is displayed



- The ASP engine reads the file, line by line, and executes the scripts in the file which is marked as server script in `<% %>`.
- Finally, the output rendered is returned to the browser as plain HTML.

## ASP Objects

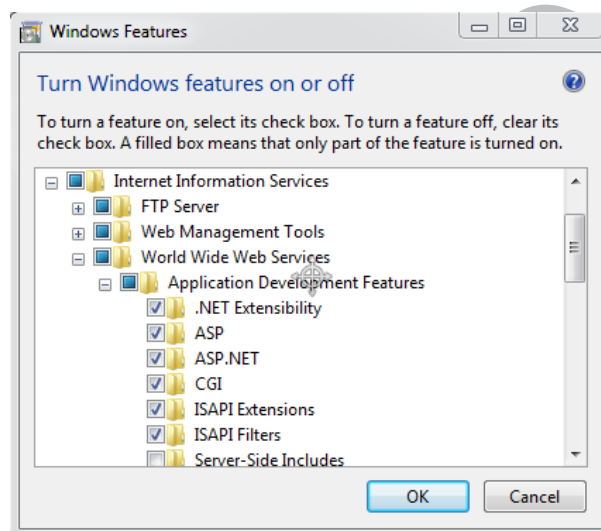
1. Request
2. Response
3. Session
4. Application
5. Server
6. ObjectContext

## 7. AspError

- `<%.....%>`: It contains the server side code in VBScript. The code outside the delimiter is Client side code and is as it is rendered to the client.
- `<% Response.Write("hello") %>` or `<%= "hello" %>` are same.

### Installing IIS and ASP on Windows 7 or Window 8

1. Press the (Windows + R) key combination to bring up a run box
2. Type "appwiz.cpl" and press enter
3. Click Turn Windows features on or off (On left panel of dialog)
4. Expand **Internet Information Services..**
5. Select Options as shown below:



### Examples using ASP

#### Code snippet for printing a table

```
<table border="1">
  <% For I = 1 To 10 %>
    <tr>
      <td>10</td>
      <td>*</td>
      <td><%=i%></td>
      <td>=</td>
      <td><%=10*i%></td>
    </tr>
  <% Next %>
</table>
```

```

<select>
  <% For i= 1 To 31 %>
    <% If (i = Day(Now)) Then %>
      <option value="<%=i%>" SELECTED><%=i%></option>
    <% Else %>
      <option value="<%=i%>"><%=i%></option>
    <% End If %>
  <%Next%>
</select>

```

To get the list of all Server Variables along with values.

[ServerVariables.ASP](#)

```

<table border="1">
  <%for each sv in Request.ServerVariables %>
    <tr>
      <td>
        <%=sv%>
      <td>
        <%= Request.ServerVariables(sv)%>
      &nbsp;
    </tr>
  <%next%>
</table>

```

### Understanding Form Tag

```

<form action="URL" method="Post" ...>
  <input name="n1" type="text/password/submit/reset/button/checkbox/radio/hidden/file/image" ...>
  <textarea name="t1"></textarea>
  <select name="s1" ...>
    <option value="v1">t1</option>
    <option value="v2" SELECTED="SELECTED">t2</option>
    ...
  </select>
</form>

```

#### Notes:

1. Form tag cannot be nested inside another form tag.
2. Input type's **button** and **reset** and **disabled** elements name and value pair is not submitted to the server.
3. Input type="button" is used only for writing client side JavaScript code.

4. Input type="checkbox" submits name and value pair only if the checkbox is checked otherwise nothing is submitted. If value is not provided the default value posted is "on"
5. To group radio buttons, **same name** must be given to them. And only the name-value pair of the radio button selected will be submitted to server.
6. For select, name of select and value of the option selected is submitted to server.
7. Select tag with size attribute is rendered as Listbox otherwise its rendered as DropDownList
8. If multiple options are selected in listbox, then with same name different values (multiple pairs) are submitted to server
9. For Textarea, name of text area and value of textarea is submitted to server.
10. Input type="image" behaves as submit button where as <img> tag renders static image.
11. A form can have more than one submit button, but only the name-value pair of the submit button used to post the form is included with the request.
12. If the form has input type="file" to upload a file along with request then its **enctype="multipart/form-data"** and **method="post"**.

#### To print First and Last Name

##### [NAME.HTML](#)

```
<form action="name.asp" method="post">
```

First Name

```
<input type="text" name="fn"><br>
```

Last Name

```
<input type="text" name="ln"><br>
```

```
<input type="submit" value="Submit">
```

```
<input type="reset">
```

```
</form>
```

##### [NAME.ASP](#)

```
<body>
```

```
<% firstname = request.Form("fn")
```

```
lastname = request.Form("ln") %>
```

```
Hello <%=FirstName & " " & Lastname%>
```

```
</body>
```

#### Displaying text in different fonts

##### [FONT.HTML](#)

```
<form action="font.asp" method="post">
```

```
<input type="text" name="t1" value="Hello"><br>
```

```
<input type="checkbox" name="bold" value="b" checked>Bold
```

```
<input type="checkbox" name="italic" value="i">Italic<br>
```

```
<input type="radio" name="color" value="red" checked>Red
<input type="radio" name="color" value="green">
Green
<input type="radio" name="color" value="blue">Blue
<select name="size">
  <option value="1">1</option>
  <option value="2">2</option>
  <option value="3" selected>3</option>
  <option value="4">4</option>
  <option value="5">5</option>
  <option value="6">6</option>
</select>
<input type="submit">
</form>
```

#### FONT.ASP

```
<html>
  <body>
    <%
      txt = request.form("t1")
      if (request.form("bold") = "b") then
        txt = "<b>" & txt & "</b>"
      end if
      if (request.form("italic") <> "") then
        txt = "<i>" & txt & "</i>"
      end if
      col = request.form("color")
      size = request.form("size")
      txt = "<font color=" & col & " size=" & size &
        ">" & txt & "</font>"
      response.Write(txt)
    %>
  </body>
</html>
```