

Visual Basic Scripting

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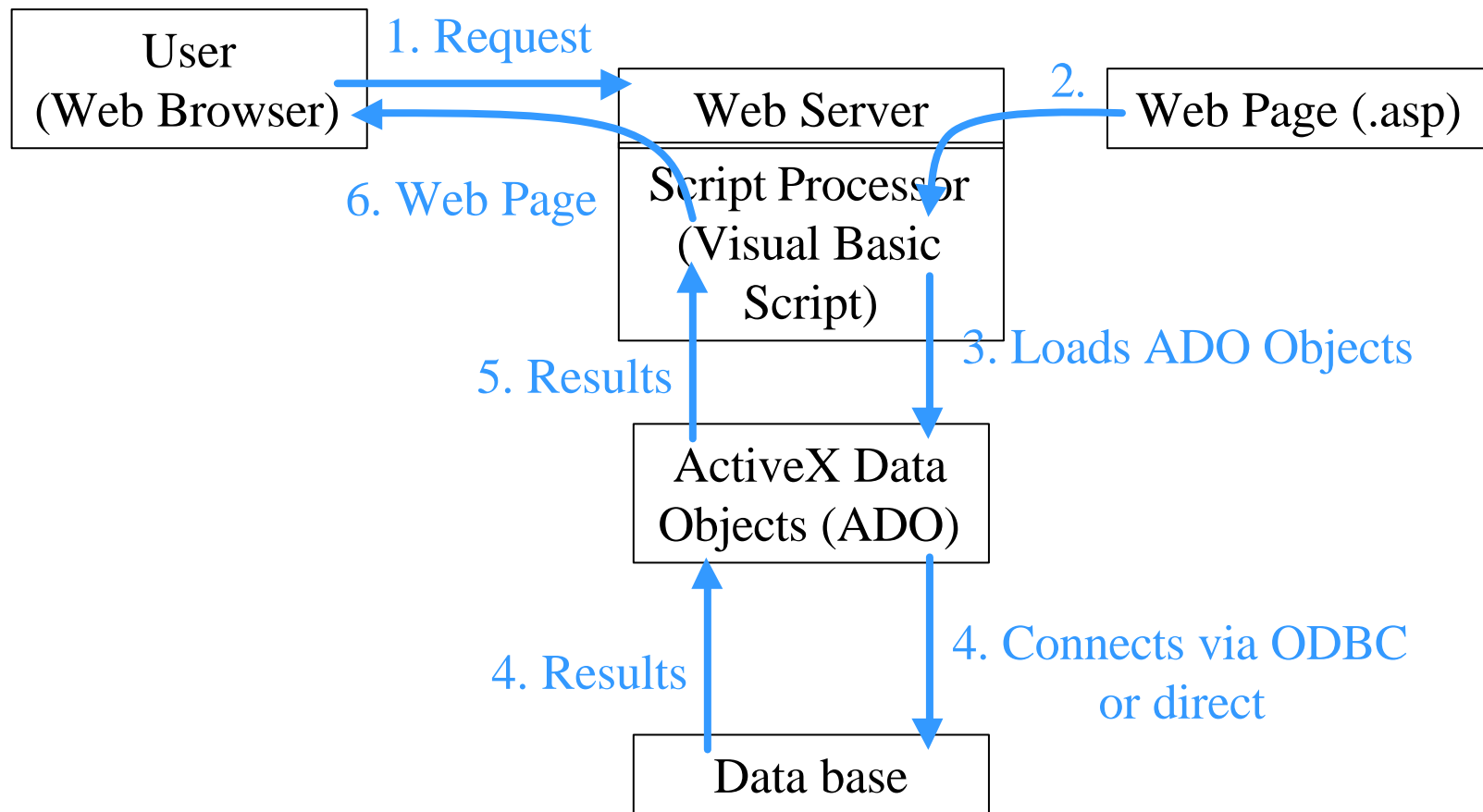
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Scripting

- Client side: JavaScript
- Server side: **VBScript** for MS-servers; most other servers support Perl, C, Java, PHP,...

Processing of Active Server Pages



A simple ASP file

```
<html><head></head><body>  
<%  
Response.Write "<p>Hello World!</p>" &_  
    vbCrLf  
%>  
</body></html>
```

The Browser gets:

```
<html><head></head><body>  
<p>Hello World!</p>  
</body></html>
```

Other ways to include Code

Short for Response.Write:

```
<% = " <p>It's " & Now( ) & " </p>" %>
```

Specify the script language:

```
<script runat=server language=VBScript>  
Response.Write " <p>Hello!</p> "  
</script>
```

Features of VBScript

- Implicit variable definitions (exception arrays `Dim a_array(100)`)
- Weak typing of variables
- No Modules
- Objects specific to VBScript
 - Dictionary (associative array)
 - File (access to files)

Dictionary

```
Set person =  
    Server.CreateObject( "Scripting.Dictionary"  
        )
```

```
person( "fname" ) = "Jim"  
person( "sname" ) = "Buyens"  
person( "state" ) = "Arizona"
```

- You can: (see Book pp. 114-116)
 - Test if a key exists
 - Remove a key
 - Count keys

Dictionary: Example

```
Set holdRec =  
    Server.CreateObject("Scripting.Dictionary"  
        ry")  
For Each fld In rs.Fields  
    holdRec(fld.Name) = fld.Value  
Next  
  
For Each ky In holdRec  
    Response.Write "<p>" & ky & "=" &  
        holdRec(ky) & "</p>" & vbCrLf  
Next
```

File and Function

```
<%
```

```
Set fs = Server.CreateObject("Scripting.FileSystemObject")
```

```
Function GetFileDate(argURL)
```

```
    Set fileObj =
```

```
    fs.GetFile(Server.MapPath(argURL))
```

```
    GetFileDate = file.Obj.DateLastModified
```

```
    Set fileObj = Nothing
```

```
End Function
```

```
%>
```

```
<% = GetFileDate("testfile.htm") %>
```

Formatting Functions

```
amt = 12.25
```

```
Response.Write FormatCurrency(amt)
```

```
Response.Write FormatPercent(amt)
```

```
Response.Write FormatDateTime(Date())
```

String Functions

```
status = Split( "test,21,guest" , "," )
```

```
statusJoined = Join(status, ";" )
```

```
result = Filter(status, "es" )
```

```
pos = InStr( "--xy-----xy--" , "xy" )
```

```
Replace( "bicycle" , "bi" , "motor" )
```

Loops

```
Do [{While | Until} condition]  
  [Exit Do]
```

```
...
```

```
Loop
```

```
For counter = start To end [Step step]
```

```
...
```

```
Next
```

```
While expression
```

```
...
```

```
Wend
```

Logic Control

```
if expression Then
```

```
    . . .
```

```
Else
```

```
    . . .
```

```
End If
```

Functions and Subroutines

```
Function name [ (argument, ... ) ]
```

```
...
```

```
name=expression
```

```
End Function
```

```
Sub name [ (argument, ... ) ]
```

```
...
```

```
End Sub
```