Information Management Resource Kit

Module on Management of Electronic Documents

UNIT 6. NETWORKING DOCUMENTS AND DATABASES

LESSON 3. DYNAMIC WEBSITES: ACTIVE SERVER PAGES

NOTE

Please note that this PDF version does not have the interactive features offered through the IMARK courseware such as exercises with feedback, pop-ups, animations etc.

We recommend that you take the lesson using the interactive courseware environment, and use the PDF version for printing the lesson and to use as a reference after you have completed the course.



Objectives

At the end of this lesson, you will be able to:

 understand what Active Server Pages (ASP) are; and

• be aware of the main advantages and disadvantages of ASP.









Creating an ASP page	
<html></html>	
<body></body>	This is a simple ASP file. The text in blue is the ASP code, written using Microsoft's VBScript scripting language.
<% response.write("Hello World!")%>	As in HTML, there are delimiters which define the starting and ending points of a code sequence. These delimiters are expressed by the following symbols:
	<% and %>
♦ Inttp://localhost/helloworld.asp ► Microsoft Internet toX File Edit View Favorites ← Back + → - ② ② △ Search Favorites Address ③ http://localhost/helloworld.asp ▼ ◇ Go Links Hello World! ● ● ● ●	The Response object manages the outpu of the code: in this example, it employs th "write" method to write the text "Hello World!" on the screen.
Done Cocal intranet	

Creating an ASP page	
Scripts in ASP are, by default, written in the VBS	cript language.
lowever, scripts can be written in other language	es.
ASP ships with native support for two scripting la	nguages (others can be purchased separately):
VBScript, and	
JavaScript, a non-Microsoft scripting language	
	_
<%@ language="javascript"%>	Here you can see the previous example written in JavaScript.
<pre><%@ language="javascript"%> <html> <body></body></html></pre>	Here you can see the previous
<pre><%@ language="javascript"%> <html> <body> <%Response.Write("Hello World!")%></body></html></pre>	Here you can see the previous example written in JavaScript. The first line declares the language being used. The resulting HTML page is exactly
<pre><%@ language="javascript"%> <html> <body></body></html></pre>	Here you can see the previous example written in JavaScript. The first line declares the language being used.

Creating an ASP page

<html> <head><title>Welcome!</title></ head> <body> <center> <h1>Welcome to our website!</h1> You are visitor number <!--#include file="counter.asp"--> </body> </html> This ASP page uses the **#include** construct from the Server Side Include (SSI) library, which is a widely used resource in the ASP environment.

<!--#include file="counter.asp"-->

In our example, the server will automatically substitute this code with the contents of the "counter.asp" file which resides in the same folder as the ASP page.

Thanks to the "#include" construct, there is **no need to copy the same code to several pages**. Changes to the "counter.asp" file will automatically be applied to all pages.



Creating an ASP page	
Please sign in below: Nance: Sex: © Male © Fernale = Pavorite Color: © © © © © © © © © © © © © © © © © © ©	In your opinion, which of the following objects is used to process data submitted in this form?
	Response Request
Please select	the answer of your choice

eating an ASP pag	e	
To sum up, in or	der to create an ASP page you have to:	
2) write a page s	litor (Notebook or Word), or an HTML editor; tarting with <html><body>and ending with </body></html> ; commands and scripts; then s.asp.	
Then, you can up	bload the ASP file on your website.	
	a very simple one and it just showed the basic ASP syntax. For further nay visit several sites, e.g.:	
/ww.learnasp.cor	n and www.aspalliance.com.	



ASP can also be used to **connect to databases using ODBC**.

This allows the developer to create dynamic web pages that are generated using content held in a database.

Through the use of ODBC, ASP can use data from a wide range of databases, for example: SQL Server, Oracle, MySQL, and Access.

Let's look at the stages of building a simple document management website, using a Microsoft Internet Information Server – IIS as web server and Microsoft SQL Server as database.



(no figoritas)	af blenet laftere De 36 Janet Flacens Greek (J. 2 J. 2 I.	18	The first page will be similar to the one on the left.
	Document I	ist	To access, for example, the third
	Document Title	Date	document, the user will have to:
	73C. and Depitters Marcau as NET	Qct 23, 2002	
	Landonicate ALL	Hor 28, 2001	 select the document title, then
	Assert for Gross	74 5,2001	 select the format, "PDF", to
	Story 2245, p. Feloring Database	Jan 20, 2001	bring up the document itself.
	Big Documents, Little Attributes	7an 6,2001	
			Now let's look at how this result can be achieved.













The **details.asp** page will then **get all the details** for each document from the database.

The Request.QueryString retrieves data appended to the query string in the URL and relating to the selected document.

Adding a new document is now done by simply inserting a new row into the document table in the database; no change to the ASP pages is needed.

Details.asp (fragment)

```
<!-- #include file="database.asp" -->
<%
Set dbcon =
Server.Createobject("ADODB.Connection")
//Get the docid of the document selected
docid = request.QueryString("docid")
```

View the entire details.asp file







• Microsoft	s Active Server Pages (ASP) is a Microsoft	proprietary
	lynamic website development.	
	are easy to build and completely integrate they can contain a mixture of text, HTML/XML	
 ASP ships and JavaSc 	with native support for two scripting language ·ipt .	s: VBScript
ASP can al	so be used to connect to databases using C	DDBC.
	ools including ASP are widely used , but most of using it come only when you are already us latform.	
	lisadvantages of ASP stem from the fact that i Microsoft technology.	t is

Exercises	
The following four ex lesson.	ercises will allow you to test your understanding of the concepts covered in the
Good luck!	

Exercise 1 Which of the	e following structures	can represent an A	ASP file?	
0	ASP page ASP Script	0	ASP Script	
	Please	e select the answer	r of your choice	

Exercise 2		
Can you identify the components of the following simp	le ASP code?	
response	method]
write	output]
Welcome!	object]
Please pair the items in each co	olumns.	

Exercise 3					
What is the	function of the "inc	lude" construct?			
	O It retrieves info	rmation provide	d by or related to	a user.	
	O It manages the	output of the As	SP code.		
	\bigcirc It avoids the ne	ed for duplication	on of code on sev	eral pages.	
	Plea	se select the ans	swer of your choi	ce	
	Plea	se select the ans	swer of your choi	ce	

Exercise 4		
Which of the follow	ving are advantages of ASP technology?	
	Easy to use	
	Open source	
	Portable	
	Integrated with HTML	
	Please select the answer of your choice	

If you want to know more	
 ASP 101 - A database interfacing primer. ASP Wire - Active server pages news and information source. ASP Developer Net web-based ASP tutorials. Fuzzysoftware - The definitive active server resource. 4 Guys from Rolla - Offers ASP articles, FAQs, message boards, tips, reviews & more. ASP Kicker - Articles designed to help the beginning ASP programmer. The Humble ASP FAQ - Frequently asked ASP questions. ASP Tutorial http://www.w3schools.com/asp/default.asp General ASP resources : http://www.aspin.com Microsoft ASP resources : http://msdn.microsoft.com/asp Learnasp.com – ASP resources and tutorials 	