Information Management Resource Kit

Module on Management of Electronic Documents

UNIT 5. DATABASE MANAGEMENT SYSTEMS

LESSON 3. USING A DATABASE FOR DOCUMENT MANAGEMENT

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 the requirements for informatio management, and 	ATT IN	
 comprehend the role of database in an inform management system. 	ation	
	C	3/

Introduction	
How can we manage our electronic documents?	A meeting is in course in the headquarters o
	the Organization for Agricultural Policy to decide how to manage the electronic documents that will be published on the new website. Requirements for document management ar- not the same as those for document delivery but it is important to consider that there is a common need: as well as final users, also users of a document management system (e.g. authors, editor, publisher) will need to access the documents quickly and easily .







The Organization for Agricultural Policy carrie requirements.	ed out a short anal	ysis, generating	some
Some of them are listed below: can you tell v	which area they fa	II into?	
	Workflow	Content management	
	management	Resources administration	Semantic management
Users with 6 different roles will access the system.	0	0	0
Documents will contain internal links.	0	0	0
The language version will be specified for each document.	0	0	0
		1	1



You have two main methods at your disposal for managing electronic documents:

- managing on the file system;
- managing using a database.

Let's look at these methods in more detail.



Jsing a file system for r	Root Folder Properties 2 ×	
	General Sharing General Sharing Image: Sharing You can share this folder among other users on your network. To enable sharing for this folder, click Share this folder. Or to not share this folder Share name: Root Folder Comment: User limit: Maximum allowed Challow Image: Users To set permissions for how users access this To configure settings for Offline access to Caching	The first thing you need to do to manage documents or the file system is to create a root folder which will be the 'base' of your document management system. You can set up user access permissions on that folder using the operating system administration tools.





Using a file system for management

If you are to be successful in managing documents on the file system you will need to be **organized and disciplined**.

That is to say, you need to make sure that you **follow the rules** you have set for how you will manage your documents.

If you are the **only person** managing documents (on the hard drive of your own computer, for example) **it is much easier** to keep to the rules than if you have many different users.



Using a file system for management



From the analysis of requirements, it emerges that complex workflow management is needed to support collaborative authoring and review.

With which of the following opinions do you agree?

• As far as the costs are concerned, choosing a file system to manage documents is better than using a database!

• There are a lot of users: a file system would give us some problems that could be avoided by using a database.

• Let's be realistic... a file system is not powerful enough to manage a website: we need a database!

Please click on the answer of your choice











Document Management System

The main features of **Document Management Systems** are:

- · import and export of the resources
- version control
- access control
- · document scanning and imaging
- metadata management

Leading commercial document management systems include products from **Documentum**, **OpenText** and **FileNet**.

If version control and access control are the two most important features for you, then you may be able to use the **open source CVS**. CVS is the **Concurrent Versions System** (http://www.cvshome.org) a widely used open-source network-transparent version control system.

CVS is useful for everyone from individual developers to large, distributed teams.

Although it is really aimed at managing the source code in software development projects, you can use it for managing any type of electronic documents.

Its client-server access method lets users access documents from anywhere there's an Internet connection. It includes a sophisticated check-out model and version control mechanism and its client tools are available as open source implementations on most platforms.





There is also a new standard for the management of resources: the Web-based Distributed Authoring and Versioning (**WebDAV**).

Published by the Internet Engineering Task Force (IETF) in 1999, it allows for the management of resources on **remote servers** so that the web can be used as a distributed document management system.

WebDAV provides facilities for:

- Collaboration
- Metadata
- Namespace management
- Ordered collections
- Versioning
- Access control
- Searching

Swww.webdav.org

manage informatior	download and print a i. open the document.	guideline doc	cument to li	st the require	ments to	
Click on the icon to	open the document.					
Guideline	es for requirements a	<u>nalysis.</u>				

Summary

• There are two main areas to consider when thinking about **document management**: managing the **workflow** and managing the **document content** itself.

• Using a **file system** is a viable option if requirements for document management are **simple**, there is only a **limited number of users**, and you don't have any particular problem with **security and backup**.

and the

• Databases can manage metadata with **document content on the file system**, or can contain both document content and metadata.

• Databases are used in **document management systems** and in **web content management systems**.

• There is also a new standard for the management of resources: the Web-based Distributed Authoring and Versioning (**WebDAV**).

Exercises The following four exercises will allow you to test your understanding of the concepts described up to
now.
Good luck!

Exercise 1	
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Can you tell in which area the following management requirements fall?

	Workflow	Content management	
	management	Resources administration	Semantic management
Links between documents must be managed.	0	0	0
Collaborative authoring and review must be supported.	0	0	0
Information packaged in electronic files must be uniquely identified.	0	0	0

Please click on the answers of your choice

xercise 2		
nat are the advantages	s of each information manageme	ent mode?
FILE SYSTEM]	It is easier to use by multiple users.
		It allows the reuse of document content in other documents.
DATABASE SYSTEM]	It requires no additional software, other than the operating system of your computer and the network.
		It is cheaper to implement.
	Click on each option and drag i	t in the



ou've got various options for managing docu at best matches each of the three systems	ments using databases: choose the description listed.
1	
Document Management System	A system that provides version and access control, metadata management and workflow.
Web content Management System	Facilitates the management of resources on remote servers allowing for web-enabled distributed document management.
WebDAV	Geared specifically to manage content (in multiple formats) that is to be published on a website.
Click on each optior correspon	

If you want to know more ...

CVS is the Concurrent Versions System a widely used open-source network-transparent version control system. (http://www.cvshome.org)

WebDAV - Web-based Distributed Authoring and Versioning (www.webdav.org)

Commercial document management systems include products from Documentum (www.documentum.com), OpenText (www.opentext.com) and FileNet (www.filenet.com)

Commercial web content management products are available from vendors such as Microsoft (www.microsoft.com), MediaSurface (www.mediasurface.com), Interwoven (www.interwoven.com) and Tridion (www.tridion.com)

www.B2Business.net - an online portal with information on products for electronic business, including listings of document and content management systems.

