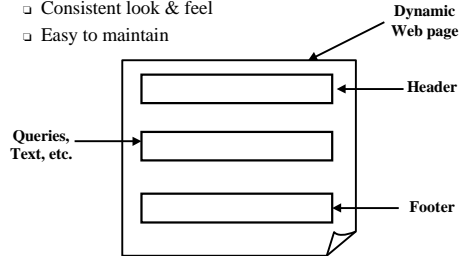


Advanced Cold Fusion Tags

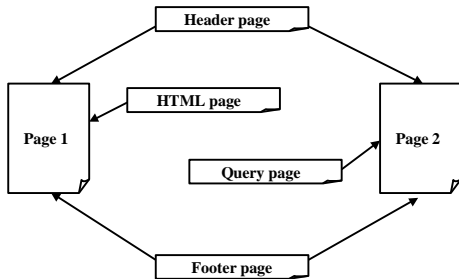
Brian L. Dos Santos

Code Reuse

- Dynamic web pages enable code reuse
 - Consistent look & feel
 - Easy to maintain



An example of Shared Code



CFINCLUDE Tag

```
<CFINCLUDE TEMPLATE="filename">
```

- The CFINCLUDE Tag is used to include a file in another file

```
<CFINCLUDE template = "header.html">
<CFINCLUDE template = "query1.cfm">
.....
<h2>Product characteristics</h2>
The product characteristics are as follows:
.... <CFOUTPUT .....>
<CFINCLUDE template = "Footer.html">
```

Included Files Example

```
Header.html
<HTML><head>
<title>Page Title</title>
</head>
<body bgcolor = "white">
Other layout tags
```

```
Footer.html
<hr>
<P>
<a href
="home.html">Home
Page</a>
</body></html>
```

```
Query1.cfm
<CFQUERY NAME="reportHeader"
DATASOURCE="School">
SELECT distinct s.id, s.name
FROM Student s
where id = #Form.id#
</CFQUERY>
```

Notes on CFINCLUDE Tag

- Pages are included before being processed
- All variables in the included pages are accessible
 - All data (environment information) in the pages are shared
- Potential side effects
 - Variables may be accidentally changed in one of the included files
 - May cause incorrect relative references if files included are in different directories

CFLOCATION Tag

```
<CFLOCATION URL="Template URL" ADDTOKEN="Yes/No">
```

- The CFLOCATION Tag allows you to jump to another page


```
<cfif action is "Delete">
  <cflocation URL="deleteprod.cfm">
<cfelseif action is "update">
  <cflocation URL="updateprod.cfm">
</cfif>
```

 - Addtoken is optional. Yes or No. Clientmanagement must be enabled (see CFAPPLICATION in the CF documentation).
 - The rest of the page is ignored. Nothing is shared between the pages.

Advanced Cold Fusion Tags

CFLOOP Tag

- Cold Fusion provides several types of loops
 - Index (for) loop


```
<CFLOOP INDEX = "parameter name" FROM="beginning value"
  TO="ending value" STEP="increment">
  ....
</CFLOOP>
```

```
<cfloop index="I" from="1" to="#queryname.recordcount#"
  step="1">
```
 - Conditional Loop


```
<CFLOOP CONDITION="expression">
<!-- Loop until CountVar = 5 -->
<CFLOOP CONDITION="CountVar EQUAL TO 5">
<CFSET CountVar=CountVar + 1>
The loop index is <CFOUTPUT>#CountVar#</CFOUTPUT>.<BR>
</CFLOOP>
```

Advanced Cold Fusion Tags

File Uploading

- File uploading allows a user to upload a file from a browser to the server
- It is done in two steps
 - Create a HTML form with a file uploading field.


```
File: <INPUT NAME="FileContents" TYPE="file">
<INPUT TYPE="submit" VALUE="Upload File">
```
 - Create a Cold Fusion file to save the file on the server


```
<CFFILE ACTION="UPLOAD" FILEFIELD="FileContents"
  DESTINATION="C:\Webdocs\Upload\"
  NAMECONFLICT="MAKEUNIQUE">
The file has been uploaded, as per your request.
```
- Requires later versions of browsers
 - Netscape 3.0 or later; IE 4.0 or later

Advanced Cold Fusion Tags

CFMAIL Tag

- Generates SMTP Mail


```
<CFMAIL TO="recipient" FROM="sender"
  CC="copy_to" SUBJECT="msg_subject"
  SERVER="servername" PORT="port_ID"
  TIMEOUT="seconds">
```

... Form & environmental variables are available here ...

```
</CFMAIL>
```
- There are a number of other optional parameters for the CFMAIL tag. Look up the documentation for them.

Advanced Cold Fusion Tags

CFMAIL Example

- This is an example of the CFMAIL that sends you mail when you update your information for the course


```
<CFMAIL TO="#Form.Email#"
  FROM="Ecommerce Update <bldoss01@acm.org">
  SUBJECT="Ecommerce Course">
#FName# #LName#, you have successfully update your
  records in the database. This is the current information you
  have provided.
Work Phone: #FORM.Wphone#
Home Phone: #FORM.Hphone#
Web page URL: #FORM.WebPageURL#
Assignment 3 URL: #FORM.Assign3URL#
</CFMAIL>
```

Advanced Cold Fusion Tags

Summary

- We have gone through a number of new Cold Fusion Tags
 - Reuse Code using the CFINCLUDE tag
 - Jumping to another page using the CFLOCATION tag
 - Looping using the CFLOOP tag
 - File uploading using the CFFILE tag and a special type of input form.
 - Generating SMTP e-mail messages using the CFMAIL tag

Advanced Cold Fusion Tags