

Mobile Web Application Course

Lab # 3

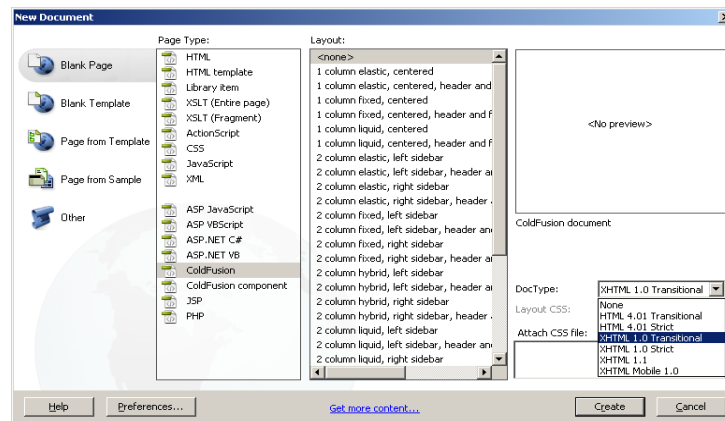
Creating Server-Side Scripts for BlackBerry using ColdFusion

The objective of this lab is to learn and understand how to create server-side scripts for building mobile Web applications using BlackBerry devices.

Exercise 1: Index (For) Loops

From the previous lab, you learned how to run the your Web server (i.e. localhost) to run mobile Web applications on BlackBerry devices. In this exercise, you will build XHTML-based Web pages that contain mobile Web application code and how to run it using BlackBerry devices.

Using a Web development application environment (i.e. Visual Studio or Adobe Dreamweaver), create a file with the name “Lab4_Exercise1.cfm”. For illustration purposes, Adobe Dreamweaver is used for this lab.



Index (for) loops: Loop for as many times you would like to loop to repeat.

Format:

```
<cfloop
  index="index"
  from="StartingPoint"
  to="EndingPoint"
  step="Increments">
</cfloop>
```

For creating an index for loops, the <CFLOOP> command is used. It contains the following properties:

- Index: contains the value of the loop number
- From: contains the starting point of the loop
- To: contains the end point of the loop
- Step: contains the increment value (optional)

Using the CFLOOP command in CFM, create loop that outputs the following:

My current loop index is 100
My current loop index is 80
My current loop index is 60
My current loop index is 40
My current loop index is 20
My current loop index is 0

Add <h3> ...</h3> for each line.

Launch the BlackBerry simulator and run the loop in the browser. The following output should appear.



In order to use the Internet service using BlackBerry simulators, you must run the BlackBerry Email and MDS Services.

Exercise 2: Conditional (while) Loops

Conditional (while) loops: Iterates through a set of instructions as long as the condition is true.

Format:

```
<cfloop condition="expression">  
    instructions ....  
</cfloop>
```

Create a while loop that outputs the following message 10 times.

HINT: use the LTE or GTE expression to accomplish this task.

The following output should appear in the BlackBerry device.



Exercise 2: List (list) Loops

List loops are used to iterate through a specified list using a delimiter.

Format:

```
<cfloop  
    List="Delimited List"  
    Index="Current Position"  
    delimiters="Delimiter Character"  
</cfloop>
```

Create a list that contains the following items:

- BMW
- Mercedes
- Honda
- GM
- Chrysler

Create a list loop that loops through the items of the list, compares each item value to the keyword "Honda". If a match is found, the following output the printed:

Yes: Honda was found in the list.

If there is no match, the following output the printed:

Oops! No matches.

HINT: Use <cfif...> for conditional statements and the function "trim" to remove any extra spaces when performing a comparison.

The following output should appear on the BlackBerry device.

