Course duration

- 3 days

Course Benefits

- Learn to get data from a database and display it on the page
- Learn to insert, Edit and Delete records from a database
- Learn to pass data from one page and receive it on another using HTML Forms
- Learn to create Dynamic Form Fields including Dynamic Select Lists
- Learn to build a Search Interface
- Learn to use Session Variables to provide Password Protection
- Learn to call ColdFusion Components (CFCs) and Custom Tags

Available Delivery Methods

Public Class
Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class
Private classes are delivered for groups at your offices or a location of your choice.

Course Outline

1. Introduction to ColdFusion
    1. Static pages vs. Dynamic pages
    2. Server-side Web Technologies
    3. Database Alphabet Soup: ODBC/JDBC, DSNs and SQL
    4. Course Objectives and Prerequisites
    5. Introduction to Course Project
2. ColdFusion Basics
    1. Using CFML
        1. Code Editors
        2. Dreamweaver Interface
        3. Tag Updaters / Extensions
        4. Tag Editing Dialog Boxes
    2. Embedded Tag Help
    3. Using ColdFusion Comments

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    4. Creating Variables
        1. <cfset> and <cfoutput>
    5. Variable Scope/Prefixes
    6. Built-in ColdFusion Functions
        1. CF Function Reference (Dreamweaver specific)
        2. Online Reference (http://livedocs.adobe.com)
        3. Tip: (http://cfquickdocs.com)
    7. Using <cfinclude> to reuse code
3. Dynamic Data: Querying the Database
    1. Database Basics
        1. Introduction to SQL
        2. Select Statement
        3. Update Statement
        4. Insert Statement
        5. Delete Statement
        6. Data Source Name (DSN) / Remote Development Server (RDS)
        7. The DSN Used in This Class: movieList
    2. Course Project Database
    3. Querying the database with <cfquery>
        1. <cfdump> for Quick Output
    4. Customizing Display with <cfoutput>
        1. Building Dynamic Tables
        2. Shortcut: <cftable>
        3. Shortcut: Dynamic Table Tool (in Dreamweaver)
4. Creating a Drill-down Interface
    1. Passing Variables between Pages
        1. "Two-page method"
    2. Receive Variables through the URL
        1. Using a WHERE clause in a SQL Statement
        2. Protecting Against SQL Injection Attacks with <cfqueryparam>
5. Conditional Statements and Forms
    1. Conditional Statements
        1. <cfif>, <cfelseif> and <cfelse>
        2. Comparison Operators
        3. Operator
        4. Description
        5. Using the isDefined() function
    2. HTML Form Review
    3. Self-Submitting Forms
        1. Using the <cfparam> tag to set a default value
        2. Quick Examination of a ColdFusion Framework (Methodology): Fusebox
    4. Dynamically Populating Select Lists
        1. HTML Review: <select> tags
        2. Introducing the <cfform> Tag
        3. Shortcut: <cfselect>
6. Quick Introduction to RSS and Ajax with <cfform>
    1. Reading an RSS Feed

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2. Introducing the <cfform> Tag
3. Building a Mask with <cfform>
4. Automatically Build a Dynamic Select List with <cfselect>

7. Search Interface
    1. Creating a Search Interface
        1. Using % and _ in a LIKE Statement
8. Insert Records into the Database
    1. Inserting Records
        1. SQL Insert Statement
        2. Insert Record Step 2 - the Insert
        3. Shortcut: <cfinsert>
        4. Redirect Users with <cflocation>
    2. Automated Form Validation
        1. Client-side vs. Server-side validation: When does the validation code run?
9. Edit (Update) Database Records
    1. Updating records
        1. SQL UPDATE Statement Review
        2. Passing the Primary Key
        3. Page 2 - View Current Data in a Form
        4. Page 3 - Perform the Update to the Database
        5. Shortcut: <cfupdate>
    2. Deleting Records
        1. Note on Deleting records
        2. Review of the SQL Delete Statement
        3. "Deleting" without deleting
        4. No <cfdelete>!
10. Reusing Code
    1. Reusing code with <cfinclude> and <cflocation>
    2. Custom Tags
        1. Where to store Custom Tags
        2. CALLER and ATTRIBUTE scopes
        3. Using <cfmodule>
        4. A Note about CFX tags
    3. User Defined Functions (UDFs) and ColdFusion Components (CFCs)
        1. Creating UDFs with the <cffunction> tag
        2. Using ColdFusion Components (CFCs)
    4. Creating Components
        1. Calling or Invoking Components
        2. Passing Arguments to Components
        3. The Component Code
        4. The main CFML page
        5. View a Component directly in the browser
11. Using Session Variables for Password Protection
    1. Session Variables
        1. Using Application.cfc to Enable Session Management
        2. Creating Password Protected Pages

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3. Password-protect.cfm (the included page)
4. Application.cfm
5. Locking Session and Application variables with <cflock>

12. Tracking User Information with Cookies (optional)
    1. Using Cookies to Track Users
13. Sending email with <cfmail> (optional)
    1. Using ColdFusion to Send Email
        1. <cfmail> Tag Syntax

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this ColdFusion class:

- HTML

Experience in the following *would be useful* for this ColdFusion class:

- SQL
- JavaScript
- CSS

Follow-on Courses

- Advanced ColdFusion Training: Components, Error Handling and Complex Objects
- Advanced ColdFusion Training: XML, File System and Web Services

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