### **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

- 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

- 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

- 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