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XML Introduction / Intermediate

Duration: 2 Days

Overview:

Programming systems these days are working on many different machines and using many different technologies and programming languages. XML is a modern effort employed to allow communication between all these different systems.

Aspect Training's XML Introduction/Intermediate training class provides a comprehensive introduction to Extensible Mark-up Language (XML). XML is a new technology and is a powerful language used to encapsulate data into XML files. XML is particularly useful for integrating and passing data between Business-to-Business applications or between disparate systems.

Prerequisites:

There are no prerequisites for this course. Previous use of HTML would be an advantage but is not essential.

Continued over....



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Course Topics:

XML Basics

What is XML?
XML Benefits
XML Documents
The Prolog
Elements
Attributes
CDATA
Whitespace
XML Syntax Rules
Special Characters
Creating a Simple XML File

Quick Introduction to XHTML

XHTML vs. HTML
The DOCTYPE Declaration
XHTML Strict
XHTML Transitional
XHTML Frameset
The Document Element
A Sample XHTML Document

DTDs

Well-formed vs. Valid
The Purpose of DTDs
Creating DTDs
The Document Element
Other Elements
Choice of Elements
Empty Elements
Mixed Content
Location of Modifier
Using Parentheses for Complex Declarations
Declaring Attributes
Validating an XML Document with a DTD

XML Schema

The Purpose of XML Schema
The Power of XML Schema
A Simple XML Schema
Validating an XML Instance Document

Simple-Type Elements

19 Primitive Data Types
Built-in Derived Data Types
Defining a Simple-type Element
User-derived Simple Types
Applying Facets
Controlling Length
Specifying Patterns
Working with Numbers
Enumerations
Whitespace-handling
Specifying Element Type Locally
Declaring Global Simple-Type Elements
Default Values
Fixed Values

Complex-Type Elements

Content Models
xs:sequence
xs:all
xs:choice
Complex Model Groups
Occurrence Constraints
Declaring Global Complex-Type Elements
Mixed Content
Defining Complex Types Globally

Attributes

Empty Elements
Adding Attributes to Elements with Complex Content
Adding Attributes to Elements with Simple Content
Restricting Attribute Values
Default and Fixed Values
Requiring Attributes