Introduction to XML Schema Courseware (XSD101)

Length: 2 days

The Introduction to XML Schema course is designed to provide a solid understanding of XML Schema and its fundamental concepts. Throughout the course, students will learn about XML Schema basics, Simple-Type Elements, Complex-Type Elements, Attributes, Reusing Schema Components, Schema Keys, Annotating XML Schemas, and Namespaces. By engaging with real-world examples and hands-on exercises, students will develop the skills needed to create, validate, and manipulate XML schemas effectively.

Benefits

1. **Comprehensive Coverage:** The course covers essential XML Schema topics, ensuring a strong foundation in the subject.
2. **Practical Examples:** The course uses real-world examples to illustrate concepts and reinforce learning.
3. **Hands-on Learning:** Students will actively engage with the material through hands-on exercises, developing practical skills that can be applied immediately.

Outline

1. **XML Schema Basics**
   A. The Purpose of XML Schema
   B. The Power of XML Schema
   C. A First Look
   D. Validating an XML Instance Document
2. **Simple-Type Elements**
   A. Overview
   B. Built-in Simple Types
   C. Building a Simple Schema (Exercise)
   D. User-derived Simple Types
   E. Restricting Element Content (Exercise)
   F. Specifying Element Type Locally
   G. Nonatomic Types
   H. Adding Nonatomic Types (Exercise)
   I. Declaring Global Simple-Type Elements
   J. Converting Simple-Type Element Declarations from Local to Global (Exercise)
   K. Default Values
   L. Fixed Values
   M. Nil Values
3. **Complex-Type Elements**
   A. Overview
   B. Content Models
   C. Complex Model Groups
   D. Occurrence Constraints
   E. Adding Complex-Type Elements (Exercise)
   F. Declaring Global Complex-Type Elements
   G. Converting Complex-Type Elements from Local to Global (Exercise)

Required Prerequisites

- Basic XML