New Perspectives on XML Comprehensive, 3rd Edition

Additional Project

Tutorial Project 3

The Winterburg Museum wants to create a page to spotlight local artists who have some or all of their work displayed in the museum. The page will showcase an artist profile consisting of name and biography and then list the artist’s main works. The museum wants you to create a schema for the xml page.

1. Using your text editor, open ***artwork.xml***. Review the contents to familiarize yourself with the structure of the XML file.
2. Add a comment in the prolog with a description of the file, your name, date, and the filename.
3. Create a text file called ***artwork.xsd***. Add a comment at the top of the XSD file with a description of the file, your name, data, and the filename.
4. In the ***artwork.xsd*** file, add the root schema element to the document and declare the XML Schema namespace using the *xs* prefix.
5. In the ***artwork.xml*** file, attach the schema file ***artwork.xsd*** to this instance document, indicating that the schema and instance document do not belong to any namespace.
6. In the ***artwork.xsd*** file, declare the **Artworks** element, containing one or more Artworkchild elements.
7. In the ***artwork.xsd*** file, declare the **Artwork** element containing the following sequence of nested child elements: **Title**, **Media**, **Description**, **Created**, and **Display**. All of the child elements should contain string data.
8. Save your changes to the ***artwork.xsd*** file, and then validate the schema document. Correct any errors you find.
9. In the ***artwork.xml*** file, in the comment section add a supporting file list with ***artwork.xsd*** in the list.
10. Save your changes to the ***artwork.xml*** file.
11. Validate the ***artwork.xml*** file against the schema document you created. Correct any validation errors you discover in the instance document.
12. Submit the completed and validated files to your instructor.