New Perspectives on XML Comprehensive, 3rd Edition

Additional Project

Tutorial 2

Jenna has been working on creating a DVD library where she can list all of the DVDs that she has. Some she bought herself, others were gifts from her mom, dad, sister, grandpa, and grandma. Her root element for her library is dvd library with one or more dvd elements. Each dvd has a title, description, year, company, favorite characters, favorite bonus features, and purchase information. Her character’s elements each have one or more character elements. Her bonus elements each have one or more features. Her purchased elements each have price, location, and date. The dvd, bonus, and purchased elements also each have an attribute.

1. Using your text editor, open***dvdlibrary.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 ***dvdlibrary.dtd***. Add a comment at the top of the DTD file with a description of the file, your name, date, and the filename.
4. In the ***dvdlibrary.dtd*** file, declare the following elements:
   1. The **dvdlibrary** element, containing one or more dvd elements
   2. The **dvd** element, containing title, description, year, company, characters, bonus, and purchased elements
   3. The **characters** element, containing one or more character elements
   4. The **bonus** element, containing one or more feature elements
   5. The **purchased** element, containing price, location, and date elements
   6. The data types of title, description, year, company, character, feature, price, location, and date as PCDATA
5. In the ***dvdlibrary.dtd*** file, declare the following attributes:
   1. The **isbn** attribute, required of the dvd element, containing **CDATA**
   2. The **num** attribute, required of the bonus element to indicate number of bonus features, containing **CDATA**
   3. The **from** attribute, optional for the purchased element, containing a value from a list containing **mom**, **dad**, **sister**, **grandpa**, and **grandma**
6. Save your changes to the ***dvdlibrary.dtd***.
7. In the ***dvdlibrary.xml*** file, in the comment section add a supporting file list with ***dvdlibrary.dtd*** in the list.
8. After the comment section in ***dvdlibrary.xml***, insert a **DOCTYPE** that references the system location dvdlibrary.dtd.
9. Save your changes to the ***dvdlibrary.xml*** file.
10. Validate the ***dvdlibrary.xml*** file. Correct any reported errors to make the file valid.
11. Submit the completed and validated files to your instructor.