

Case Problem 2

Data Files needed for this Case Problem: `chester.css`, `chester.txt`

Chester's Restaurant Chester's Restaurant is located in the quaint town of Hartland, Minnesota. Jasmine Pup, the owner and operator, wants to display the recently revamped breakfast menu on the web. She wants you to apply an existing style sheet to the document so the menu is nicely formatted on the web. She has saved the menu information to a text file and needs you to convert the document to XML. Figure 1-42 outlines the structure of the document you will create.

Figure 1-42 Chester's breakfast menu tree hierarchy

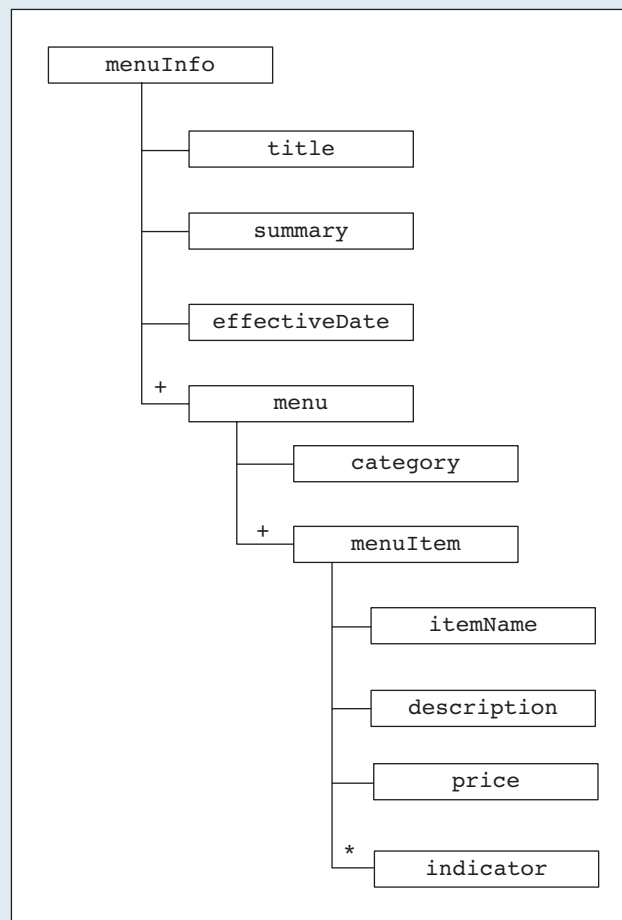


Figure 1-43 shows the document displayed with a style sheet.

Figure 1-43

The chester.xml document displayed using the chester.css style sheet

Chester's Breakfast Menu

If you've been craving an authentic homestyle country breakfast, look no further than Chester's! We've got your breakfast favorites served up just the way you like them!!

03/12/2016

Traditional Favorites

- Rise n' Shine**
 Two Eggs* cooked to order with Grits, Gravy and Homemade Buttermilk Biscuits along with real Butter and the best fresh jam available. Served with your choice of Fresh Fruit or Hashbrown Casserole and Smoked Sausage Patties, Turkey Sausage Patties or Thick-Sliced Bacon.
 7.95
- Fresh Mornin' Sampler**
 Low-Fat Vanilla Yogurt and Seasonal Fruit topped with our Honey Granola mix of Almonds and Dried Fruit. Served with a Wild Maine Blueberry Muffin or an Apple Bran Muffin.
 6.95

Lite and Quick

- Oatmeal Breakfast**
 Our Oatmeal is served warm with your choice of Fried Apples, Pecans, Raisins, Fresh Sliced Bananas or 100% Pure Natural Syrup. Also, served with your choice of Apple Bran Muffin or Wild Maine Blueberry Muffin. Available all day.
 6.95
- Chester's Meat Platter**
 Country Ham, Pork Chops or Steak* grilled to order, Three Eggs* cooked to order served with Cottage Cheese, Smoked Sausage Patties, Turkey Sausage Patties or Thick-Sliced Bacon.
 12.95

Complete the following:

- Using your text editor, open the **chester.txt** file located in the xml01 ► case2 folder included with your Data Files.
 - Save the document as **chester.xml**.
 - Create a prolog at the top of the document indicating that this is an XML document using the UTF-8 encoding scheme, and that it is a standalone document.
 - Create a processing instruction to link the *chester.xml* document to the **chester.css** style sheet.
 - Directly below the XML declaration, insert a comment containing the text
Chester's Restaurant Breakfast Menu
- Filename:** **chester.xml**
Author: *your name*
Date: *today's date*
 where *your name* is your first and last names, and *today's date* is the current date.
- Enclose the document body content in a root element named **menuInfo**.
 - Enclose the text *Chester's Breakfast Menu* in an element named **title**.
 - Enclose the three lines of text beginning with *If you've been craving* in an element named **summary**. Enclose the content for each **summary** element in a CDATA section.
 - Enclose the date found after the text *Effective thru* in an element named **effectiveDate**.
 - Add an attribute called **text** to the **effectiveDate** element with a value of **Effective thru**.

11. The menu information is divided into two categories. Add the first opening tag for the parent element called **menu** to the document on the line before the text *Traditional Favorites*. Add the closing tag for the first **menu** element and the opening tag for the second **menu** element on the line before the text *Lite and Quick*. Add the closing tag for the second **menu** element on the last line of the document.
12. Each menu category contains a description to be marked with a **category** element. Mark the text *Traditional Favorites* in the first **menu** element with a **category** element, and then mark the text *Lite and Quick* in the second **menu** element with another **category** element.
13. Each menu category also contains one or more child **menu** items and their associated information. On the next line below each **category** element, add a parent element named **menuItem**. Create element tags for each of the following child elements and place them within each **menuItem** parent element:
 - a. Mark the first line of each menu category with an element named **itemName**, which will contain the name of the item on the menu. Be sure to place this element within the **menuItem** parent element.
 - b. Mark the second piece of information for each menu category with an element named **description**, which will give a detailed description of what the menu item consists of. There may be several lines for the description. The content of the **description** element should be enclosed within a CDATA section. Be sure to place this element within the **menuItem** parent element.
 - c. Mark the third piece of information for each menu category with an element named **price**, which will indicate the purchase price of the item. Be sure to place this element within the **menuItem** parent element.
 - d. Mark the fourth piece of information for each menu category with an element named **indicator**, which contains optional text indicators that flag the menu item under one or more of the following subcategories:
 - ♥ *Heart Healthy*: character reference `♥`
 - ♦ *Low Sodium*: character reference `♦`
 - ♠ *Vegan*: character reference `♠`
 - 🍷 *Low Carb*: character reference `♨`

Because each menu item could fall under none or several categories, the number of indicator elements will vary. If a menu item includes an **indicator** element, use the appropriate character reference to display the symbol for the indicator instead of displaying the text description. Be sure to place this element within the **menuItem** parent element.
 - e. Because others might not be familiar with the character references, include a single-line comment containing the text description for each character reference after the closing tag for each **indicator** element.
 - f. If there are more **menuItem** elements, repeat Steps 13a–13e.
14. Add the namespace **`http://example.com/chestershartland/menu`** to the opening tag of the root element.
15. Save your changes to the **chester.xml** document.
16. Open the **chester.xml** document in your web browser and compare the output to Figure 1-43. If necessary, correct any errors and then re-verify the output in the browser.