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Quiz 12

Section 402

1. **b) Extensible Markup Language.** XML stands for extensible markup language which is a self-documenting language for data storage.
2. **d) all of the above.** The developers wanted something that was friendly to both humans and machine but was less complicated than SGML which was used as the foundation. XML is also similar to HTML in that they both have a system of hierarchical tags.In the case of XML these tags provide info about the encoded data.
3. **c) Style Information.** XML only relates to the storage and use of data. Style information is a function of HTML to give websites their appearance
4. **b) Document Type Definition** DTD is used to define the XML schema. It defines the elements and subelements along with the overall structure and attributes elements should have. It cannot specify the data types however.
5. **c) <?xml version="A.0"?>** Question marks enclose everything within the < and >. The version name must also be in quotation marks.
6. **a) All XML elements must have a closing tag.** Tags are closed in reverse order of the way they were opened. For example <book> <author> would be closed </author> </book>
7. **c)** **<!-- -->** Only one ! is used and is placed immediately after the < while double dashes enclose the actual comment.
8. **d) SGML** SGML predates XML but was too complicated than was desired though it did provide the basis/framework for XML.
9. **a) required when validating XML documents** Since the DTD provides the structure/schema of the XML document it is the easiest and clearest way to validate it. The information it provides may not be apparent in the XML document itself (like if an element must have an attribute or won’t have any sub elements).
10. **a) { name: "Smiley",** The keys need to have quotation marks around them as well.
11. **c) [ {1}, {2}, {"dog"}, {"cat"},** The values inside the {} don’t have key value pairs they just have a single value.
12. **Answer D** Answer C is missing “Item” in ItemID, answer A has “yes” for free shipping but it should be either true or false, and answer B has a score rating of 0 but the score must be at least 1

{

"type": "object",

"properties":

{ "ItemID": { "type":"string", "pattern":"Item\*" },

"ItemName": { "type":"string" },

"Price": { "type":"integer", "minimum":10, "maximum":100 },

"Sellers": { "type":"array", "maxItems":3,

"items": { "type":"string" }},

"Ratings": { "type":"array",

"items":

{ "type": "object",

"properties": {"Rater":

{"type": "string", "optional": true},

"Score":

{"type": "integer", "minimum":1,

"maxiumum":5}}}},

"AvgRating": { "type":"number", "optional":true },

"FreeShipping": {"type":"boolean" }

}

}