We have created a interpreter/compiler which can accept an xml file as input and process it for syntax check.

we have done this in a following way:-

1. We have created a lex file which will break the XML code into tokens, this tokens are then passed to yacc file.
2. Parsing is done in yacc file which process the text, made of a sequence of tokens to determine its grammatical structure with respect to a given formal grammar.
3. Our code will test the following errors in a XML files.
4. XML Tags are Case Sensitive

XML elements are defined using XML tags.

With XML, the tag <Letter> is different from the tag <letter>.

Opening and closing tags must be written with the same case:

<Message>This is incorrect</message>

<message>This is correct</message>

1. XML Elements Must be Properly Nested

In HTML, you might see improperly nested elements:

<b><i>This text is bold and italic</b></i>

In XML, all elements must be properly nested within each other:

<b><i>This text is bold and italic</i></b>

1. XML Documents Must Have a Root Element.

XML documents must contain one element that is the parent of all other elements. This element is called the root element.

<root>

<child>

<subchild>.....</subchild>

</child>

</root>

1. XML Attribute Values Must be Quoted.

XML elements can have attributes in name/value pairs just like in HTML.

In XML the attribute value must always be quoted. Study the two XML documents below. The first one is incorrect, the second is correct:

<note date=12/11/2007>

<to>Tove</to>

<from>Jani</from>

</note>

<note date="12/11/2007">

<to>Tove</to>

<from>Jani</from>

</note>

1. Entity References (& ' “ ) should not be present in the text between the tags
2. All XML Elements Must Have a Closing Tag In HTML, you will often see elements that don't have a closing tag:

<p>This is a paragraph

<p>This is another paragraph

In XML, it is illegal to omit the closing tag. All elements must have a closing tag:

<p>This is a paragraph</p>

<p>This is another paragraph</p>

1. Comments in XML.

The syntax for writing comments in XML is similar to that of HTML.

<!-- This is a comment -->

1. If two opening tags are there then the second tag should be closed before first.
2. If improper starting of tag like “<<” or improper closing “>>” is done then it will detect the syntax error.
3. Closing tags must start with “/” symbol.
4. Opening tags must preside closing tags.

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