

## CS5483 Review Question 1

What are the similarity and dissimilarity between DTD and Well-formed Document?

Answer:

The processing of DTD is:

- Document Type Declaration (DTD) is a mechanism (set of rules) to describe the structure, syntax and vocabulary of XML documents.
- With a DTD, independent groups of people can agree to use a common DTD for interchanging data.
- Your application can use a standard DTD to verify that data that you receive from the outside world is valid.
- You can also use a DTD to verify your own data.

The processing of Well-formed documents is:

- The first line of a well-formed XML document must be an XML declaration.
- All non-empty elements must have start tags and end tags with matching element names.
- All empty elements must end with />.
- All document must contain one root element.
- Nested elements must be completely nested within their higher-level elements.
- The only reserved entity references are &amp;, &apos;, &gt;, &lt;, and &quot;.

The similarity between DTD and Well-formed document is that they both are used to validate the correctness of the XML documents by XML Parser before processing.

The difference between DTD and Well-formed document is that Well-formed document validates the minimum syntaxes of XML document format while DTD is more restrictive to a particular application requirements by adding additional rules for each XML document after syntaxes checking.