**Two types of XML parsers:Validating Parser**

• It requires document type declaration• It generates error if document does not

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Conform with DTD and

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Meet XML validity constraints

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**Non-validating**

 Parser• It checs well!formedness for "ml document• It can ignore e"ternal DTD

**What is XML Parser?**

XML Parser provides way how to access or modify data present in an XML document# $ava provides multiple options to parse XML document# %ollowing are various types of parserswhich are commonly used to parse XML documents#

**Types of parsers:**

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**Dom Parser -**

 Parses the document &y loading the complete contents of the documentand creating its complete hiearchical tree in memory#

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**!X Parser -**

 Parses the document on event &ased triggers# Does not load the completedocument into the memory#

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**"D#M Parser -**

 Parses the document in similar fashion to D'M parser &ut in moreeasier way#

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**t!X Parser -**

 Parses the document in similar fashion to ()X parser &ut in moreefficient way#

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**XPath Parser**

 ! Parses the XML &ased on e"pression and is used e"tensively incon\*uction with X(LT#

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**D#M$" Parser**

 ! ) \*ava li&rary to parse XML+ XPath and X(LT using $ava Collections%ramewor + provides support for D'M+ ()X and $)XP#

**D#M-Do%&ment #'(e%t Model**

The Document '&\*ect Model protocol converts an XML document into a collection of o&\*ects inyour program# XML documents have a hierarchy of informational units called nodes, thishierarchy allows a developer to navigate through the tree looing for specific information#-ecause it is &ased on a hierarchy of information+ the D'M is said to &e tree &ased# D'M is away of descri&ing those nodes and the relationships &etween them#

XML DTD

An XML document with correct syntax is called "Well Formed".

An XML document validated against a DTD is both "Well Formed" and "Valid".