



SNS COLLEGE OF TECHNOLOGY



Coimbatore-35.

An Autonomous Institution

COURSE NAME : 19CSO303 WEB DESIGNING

III YEAR/ VI SEMESTER

TOPIC : XML SCHEMA



XML Schema

- An XML Schema describes the structure of an XML document, just like a DTD.
- An XML document with correct syntax is called "Well Formed".
- An XML document validated against an XML Schema is both "Well Formed" and "Valid".



XML Schema

XML Schema is an XML-based alternative to DTD:

```
<xs:element name="note">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element name="to" type="xs:string"/>  
      <xs:element name="from" type="xs:string"/>  
      <xs:element name="heading" type="xs:string"/>  
      <xs:element name="body" type="xs:string"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```



XML Schema

The Schema above is interpreted like this:

- `<xs:element name="note">` defines the element called "note"
- `<xs:complexType>` the "note" element is a complex type
- `<xs:sequence>` the complex type is a sequence of elements
- `<xs:element name="to" type="xs:string">` the element "to" is of type string (text)
- `<xs:element name="from" type="xs:string">` the element "from" is of type string
- `<xs:element name="heading" type="xs:string">` the element "heading" is of type string
- `<xs:element name="body" type="xs:string">` the element "body" is of type string



XML Schema

XML Schemas are More Powerful than DTD

- XML Schemas are written in XML
- XML Schemas are extensible to additions
- XML Schemas support data types
- XML Schemas support namespaces



XML Schema

Displaying XML :

- Raw XML files can be viewed in all major browsers.
- Don't expect XML files to be displayed as HTML pages.



XML Schema

Viewing XML Files

```
<?xml version="1.0" encoding="UTF-8"?> -  
<note> <to>Tove</to>  
<from>Jani</from>  
  <heading>Reminder</heading>  
<body>Don't forget me this weekend!</body>  
</note>
```



XML Schema

Viewing an Invalid XML File

```
<?xml version="1.0" encoding="UTF-8"?> -  
<note> <to>Tove</to>  
<From>Jani</from>  
<heading>Reminder</heading>  
<body>Don't forget me this weekend!</body>  
</note>
```




Thank You!