# **Experiment No.6**

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Title: Create XML schema, DTD for any database application.

```
• student.xml: -
```

```
<?xml version="1.0" standalone="no"?>
<!DOCTYPE students SYSTEM "student.dtd">
<students>
<student>
      <roll_no>1</roll_no>
      <name>
             <fname>Sumit</fname>
             <mname>P</mname>
             <lname>Kamble</lname>
      </name>
      <address>
             <city>Kolhapur</city>
             <pincode>410612</pincode>
      </address>
</student>
<student>
      <roll_no>2</roll_no>
      <name>
             <fname>Cristiano</fname>
             <lname>Ronaldo</lname>
      </name>
      <address>
             <city>Mumbai</city>
             <pincode>410615</pincode>
      </address>
```

```
</student>
```

### • student.dtd: -

```
<!ELEMENT students (student+)>
<!ELEMENT student (roll_no,name,address)>
<!ELEMENT roll_no (#PCDATA)>
<!ELEMENT name (fname,mname?,lname)>
<!ELEMENT fname (#PCDATA)>
<!ELEMENT mname (#PCDATA)>
<!ELEMENT lname (#PCDATA)>
<!ELEMENT address (city,pincode)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT pincode (#PCDATA)>
```

# **Output: - (Without error)**

# Please copy your XML document in here:

```
<?xml version="1.0" standalone="no"?>
<!DOCTYPE students SYSTEM "student.dtd">
<students>
<student>
<roll no>1</roll no>
<name>
<fname>Sumit</fname>
<fmname>P</mname>
<Iname>Ramble</Iname>
</name>
```

#### Or upload it:

Choose File No file chosen

The validation check is performed against any XML schema or DTD declared inside the XML document. If neither an XML schema nor a DTD is declared, only a syntax check is performed.

To validate the XML document against an external XML schema, click below.

☐ Validate against external XML schema

validate

# The file student.dtd is being referenced. Please copy it in here, so that the validation can continue:

```
<!ELEMENT students (student+)>

<!ELEMENT student (roll no,name,address)>

<!ELEMENT roll no (#PCDATA)>

<!ELEMENT name (fname,mname?,lname)>

<!ELEMENT fname (#PCDATA)>

<!ELEMENT mname (#PCDATA)>

<!ELEMENT lname (#PCDATA)>

<!ELEMENT address (city,pincode)>

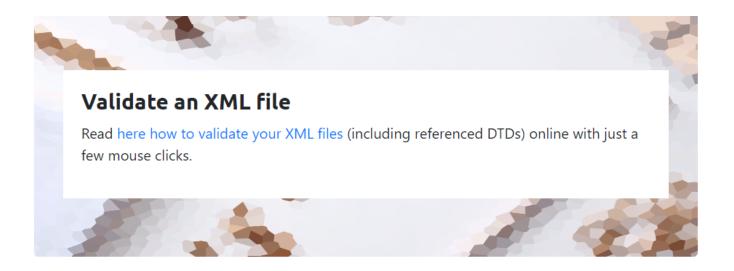
<!ELEMENT city (#PCDATA)>

<!ELEMENT pincode (#PCDATA)>
```

#### Or upload it:

Choose File No file chosen

continue validation



#### No errors were found

The following files have been uploaded so far:

XML document:8

student.dtd 8

Click on any file name if you want to edit the file.

# **Output: - (With error)**

#### 2 errors have been found!

Click on 📲 to jump to the error. In the document, you can point at 🔇 with your mouse to see the error message.

#### **Errors in the XML document:**

- **№** 4: 10 Document root element "student", must match DOCTYPE root "students".
- **№** 16:2 The markup in the document following the root element must be well-formed.

#### XML document:

```
1 <?xml version="1.0" standalone="no"?>
 2 <!DOCTYPE students SYSTEM "student.dtd">
 3
 4 < student >
 5 < roll_no > 1 < / roll_no >
 6 < name >
 7 < fname > Sumit < /fname >
 8 < mname > P < / mname >
 9 < Iname > Kamble < / Iname >
10 </name>
11 < address >
12 < city > Kolhapur < / city >
13 < pincode > 410612 < / pincode >
14 </address>
15 </student>
16 <

⊗student>
```