

Raj Kumar Goel Institute Of Technology, Ghaziabad

EXPERIMENT 05

Aim : Write a program in XML for creation of DTD, which specifies set of rules. Create a style sheet in CSS/ XSL & display the document in internet explorer.

Data.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE library SYSTEM "library.dtd">
<library>
  <book>
    <title>XML Basics</title>
    <author>John Doe</author>
    <year>2021</year>
    <genre>Education</genre>
  </book>
  <book>
    <title>Learning XSLT</title>
    <author>Jane Smith</author>
    <year>2022</year>
    <genre>Education</genre>
  </book>
</library>

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE library SYSTEM "library.dtd">
<?xml-stylesheet type="text/xsl" href="style.xsl"?>
<library>
  <book>
    <title>XML Basics</title>
    <author>John Doe</author>
    <year>2021</year>
    <genre>Education</genre>
  </book>
  <book>
    <title>Learning XSLT</title>
    <author>Jane Smith</author>
```

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```
<year>2022</year>
<genre>Education</genre>
</book>
</library>
```

Library.dtd

```
<!ELEMENT library (book+)>
<!ELEMENT book (title, author, year, genre)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT year (#PCDATA)>
<!ELEMENT genre (#PCDATA)>
```

Style.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <head>
        <title>Book Library</title>
        <style>
          body {
            font-family: Arial, sans-serif;
          }
          h1 {
            color: #007BFF;
          }
          .book {
            border: 1px solid #ccc;
            margin: 10px 0;
            padding: 10px;
          }
        </style>
      </head>
      <body>
        <h1>Library Collection</h1>
```

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```
        <xsl:for-each select="library/book">
            <div class="book">
                <h2><xsl:value-of select="title"/></h2>
                <p><strong>Author:</strong> <xsl:value-of
select="author"/></p>
                <p><strong>Year:</strong> <xsl:value-of
select="year"/></p>
                <p><strong>Genre:</strong> <xsl:value-of
select="genre"/></p>
            </div>
        </xsl:for-each>
    </body>
</html>
</xsl:template>
</xsl:stylesheet>
```