Internet and Web Programming

Lab Fat

Prof. – Jayakumar K.

Name – Yashraj Agarwal

Reg. No – 18BCI0183

Slot – L13 + L14

Question –

CSE3002 Internet and Web Programming (Lab) Fall 2020-21 (L13+L14) [VL2020210106508]

Dashboard / My courses / CSE3002_VL2020210106508 / LAB FAT / LAB FAT Question

Question **1**

Answer saved

Marked out of
1.00

⚑ Flag question

Create a XML document which holds the cities weather details(cityname, Date, Rainfall, Temperature, Humidity).Create atleast five records .Write a XSLT code to display the city and their temperature as a table in HTML page.

Answer: Create a XML document which holds the cities weather details(cityname, Date, F

Finish attempt ...

Quiz navigation

YASHRAJ AGARWAL 18BCI0183

1

Finish attempt ...

◄ Nodejs with MongoDB

Jump to... ⇕

Code –

Records.xml

```xml
<?xml version="1.0" ?>
<?xml-stylesheet type='text/xsl' href='studentMarks.xsl'?>
<studentMarks>
    <subjects>
        <subject>English</subject>
        <subject>Maths</subject>

    </subjects>
    <student>
        <name>Mumbai</name>
        <regno>01/11/2020</regno>
        <marks>35</marks>

    </student>
    <student>
        <name>Delhi</name>
        <regno>04/11/2020</regno>
        <marks>42</marks>

    </student>
    <student>
        <name>Bangalore</name>
        <regno>04/11/2020</regno>
        <marks>56</marks>

    </student>
    <student>
        <name>Chennai</name>
        <regno>03/11/2020</regno>
        <marks>34</marks>

    </student>
    <student>
        <name>Hyderabad</name>
        <regno>02/11/2020</regno>
        <marks>34</marks>

    </student>
</studentMarks>
```

Records.xsl -

```xml
<?xml version="1.0" encoding="UTF-8"?>
<html xsl:version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <head>
    <style>
        table, td, th {
            border: 1px solid black;
            border-collapse: collapse;
            text-align: center;
        }
    </style>
    </head>
    <body>
        <table style="width:100%;">
            <tr>
                <th rowspan="2">Name</th>
                <th rowspan="2">Date</th>
                <th rowspan="2">Temperature</th>
                <th rowspan="2">humidity</th>
                <th rowspan="2">rainfall</th>

            </tr>
            <tr>
                <xsl:for-each select="studentMarks/subjects/subject">
                    <th><xsl:value-of select="."/></th>
                </xsl:for-each>

            </tr>
            <xsl:for-each select="studentMarks/student">
            <tr>
                <td><xsl:value-of select="name"/></td>
                <td><xsl:value-of select="regno"/></td>
                <xsl:for-each select="marks">
                    <td>
                        <xsl:value-of select="."/>
                        <xsl:text></xsl:text>
                    </td>
                </xsl:for-each>
                <td>
                    <xsl:value-of select="sum(marks)"/>
                    <xsl:text></xsl:text>
                </td>
                <td>
```

```
                    <xsl:number value="sum(marks) div count(marks)" format="1"/>
                    <xsl:text>%</xsl:text>
                </td>
                <xsl:choose>
                    <xsl:when test="(sum(marks) div count(marks)) &gt; 85">
                        <td style="background-
color: green; color: white;">PASS</td>
                    </xsl:when>
                    <xsl:otherwise>
                        <td style="background-
color: red; color: white;">FAIL</td>
                    </xsl:otherwise>
                </xsl:choose>
            </tr>
            </xsl:for-each>
        </table>
    </body>
</html>
```

Procedure –

**Creating an
XML file from
DTD or XML
Schema**

Generating an XML file from a DTD or XML Schema can be useful if you want to
quickly create an XML file that is based on your gramma file.

To create an XML file from a grammar file follow these steps:

1. Invoke **New XML File** wizard using workbench
    menu **File>New>Other>XML>XML.**
2. On the **XML File Name** page select a project or folder to contain the XML
    file and type a name for it.
3. Next, depending on what type of gramma file you need choose, select
    the **Create XML file from DTD file** or **Create XML file from an XML
    Schema file** radio button.
4. The next choice you have to do is to select your gramma file. You can select
    it from the workspace (you can import files into the workspace if they are not
    there) Another possibility is to use DTD and XML files defined in **XML
    Catalog** .
5. On the **Select Root Element** page select from the following content options:
    o   Create optional attributes - both mandatory and optional attributes
        will be generated.
    o   Create optional elements - both mandatory and optional elements
        will be generated.

- o Create first choice of required choice - the first option of a required choice will be generated in your XML file.
- o Fill elements and attributes with data - any elements and attributes generated will be filled with sample data.

If you do not select any of these options, then only the minimum amount of content required for the XML file will be created.

6. The last this is to specify document type (Figure 2) for DTD or namespace (Figure 3) for XML Schema information.
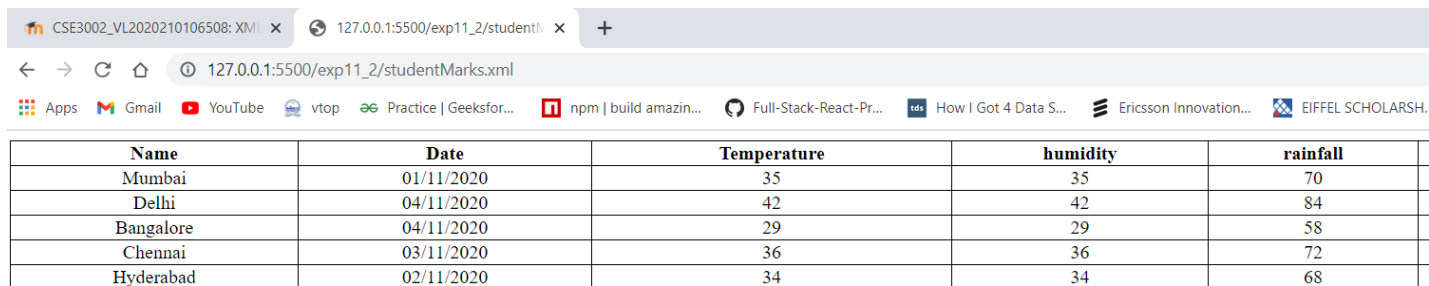
For **DTD:**

- o Specify the Public ID or System ID. You do not need to specify both. If you do, the Public ID will be used before the System ID.

For **XML Schema:**

- o The Namespace information section contains information about the target namespace of the XML schema, its prefix, and the schema location

Output –

Name	Date	Temperature	humidity	rainfall
Mumbai	01/11/2020	35	35	70
Delhi	04/11/2020	42	42	84
Bangalore	04/11/2020	29	29	58
Chennai	03/11/2020	36	36	72
Hyderabad	02/11/2020	34	34	68