Internet and Web Programming CSE3002 Fall Semester 2020-21

Lab Assignment 9

ISHAAN OHRI 18BCE0265

Question:

Write a program to demonstrate the concept of data storage and parsing in XML

Develop a thesaurus tool by creating a schema for thesaurus. When a word is entered the synonyms or antonyms must be displayed based on the user request.

Code:

thesaurus.xsl

```
<?xml version="1<u>.0"</u>?>
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:output method="html"/>
<xsl:template match="/">
<title> thesaurus.xsl</title>
</head>
<form method="post" action="">
Enter word:
<input type="text" id="search"/>
<input type="submit" id="submit" value="Submit"/>
<xsl:for-each select="thesaurus/word">
<xsl:if test="@content='Smart'">
<xsl:value-of select="synonyms"/>
</xsl:for-each>
</form>
```

```
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

thesaurus.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="thesaurus.xsl"?>
<thesaurus>

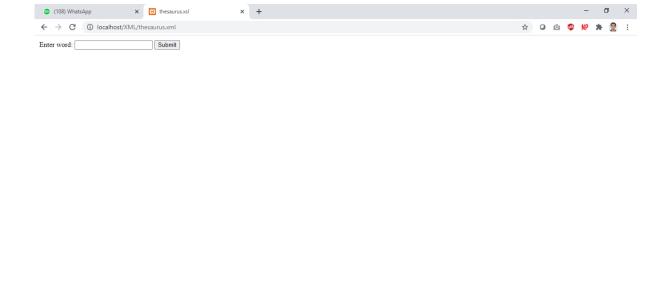
<word content="Beautiful">
<synonyms>attractive, pretty, charming, pleasing, alluring</synonyms> </word>

<word content="Dumb">
<synonyms>stupid, dumbo</synonyms>
</word>
</thesaurus>
```

thesaurus.dtd

```
</xsl:template>
</xsl:stylesheet>
<?xml version='1.0' encoding='UTF-8'?>
<!ELEMENT thesaurus (word)*>
<!ELEMENT word (synonyms)*>
<!ATTLIST word
content CDATA #IMPLIED
>
<!ELEMENT synonyms (#PCDATA)>
```

Output:





attractive, pretty, charming, pleasing, alluring

Question:

XSLT – Create a student mark maintenance system using XML. Create a webpage to display all the students consolidated mark statement with pass (green color) or fail (red color) using XSLT.

Code:

sr.xml

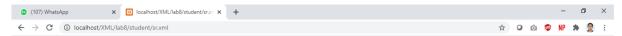
```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="sr.xsl"?>
<student>
<n>Ishaan Ohri</n>
<m>100</m>
<res>PASS-Distinction</res>
</student>
<student>
<n>Shreya Basu</n>
< m > 70 < /m >
<res>PASS-Very Good</res>
</student>
<student>
<n>Siddhant Sharda</n>
< m > 01 < /m >
<res>FAIL-Better luck next time</res>
</student>
<student>
<n>Gurprasad Singh</n>
< m > 88 < / m >
<res>PASS-Very good ,keep it up</res>
</student>
<n>Shivam Anand</n>
<m>33</m>
<res>FAIL-Better luck next time</res>
</student>
<n>Sameer Rupani</n>
<m>80</m>
<res>PASS-Very good ,keep it up</res>
</student>
<student>
<n>Rupin Singh</n>
<m>78</m>
<res>PASS-Very Good</res>
</student>
<n>Riya</n>
<m>50</m>
```

```
<res>PASS- Can do better</res>
</student>
</sr>
```

sr.xsl

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"</pre>
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
<h1 align="center"> STUDENTS' RESULT RECORD</h1>
Name
Marks
Result
<xsl:for-each select="sr/student">
<xsl:if test = "m > 40">
<xsl:value-of select="n"/>
<xsl:value-of select="m"/>
<xsl:value-of select="res"/>
</xsl:if>
<xsl:if test = "m &lt; 40">
<xsl:value-of select="n"/>
<xsl:value-of select="m"/>
<xsl:value-of select="res"/>
</xsl:if>
</xsl:for-each>
</xsl:template>
</xsl:stylesheet>
```

Output:



STUDENTS' RESULT RECORD

Name	Marks	Result
Ishaan Ohri	100	PASS-Distinction
Shreya Basu	70	PASS-Very Good
Siddhant Sharda	01	FAIL-Better luck next time
Gurprasad Singh	88	PASS-Very good ,keep it up
Shivam Anand	33	FAIL-Better luck next time
Sameer Rupani	80	PASS-Very good ,keep it up
Rupin Singh	78	PASS-Very Good
Riya	50	PASS- Can do better