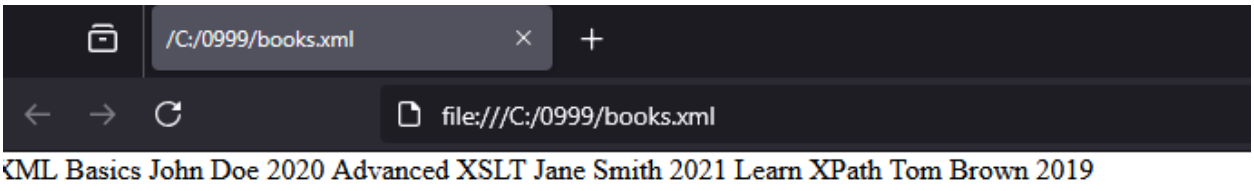
WEB APPLICATION DEVELOPMENT LAB

06-02-2025

Eshwar Deshmukh Chavan

HU22CSEN0100999

1.Display XML data using XSLT



Books.xml code:

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

<library>
    <book>
        <title>XML Basics</title>
        <author>John Doe</author>
        <year>2020</year>
    </book>
    <book>
        <title>Advanced XSLT</title>
        <author>Jane Smith</author>
        <year>2021</year>
    </book>
    <book>
        <title>Learn XPath</title>
        <author>Tom Brown</author>
        <year>2019</year>
    </book>
</library>
```

Books.xsl code:

```xml
<?xml version="1.0" encoding="UTF-8"?>
```

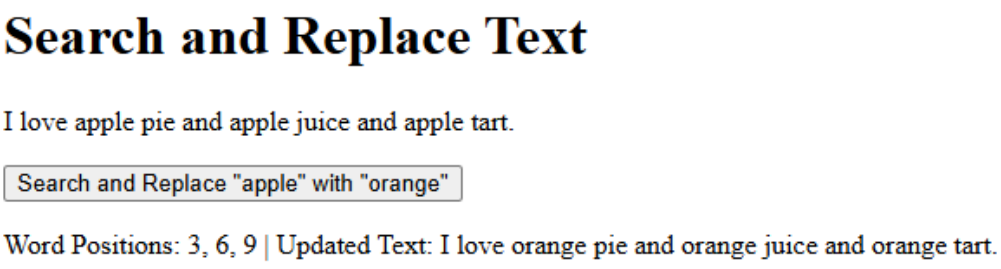
```xml
<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

    <xsl:template match="/library">
        <html>
            <head>
                <title>Book List</title>
            </head>
            <body>
                <h1>Book List</h1>
                <table border="1">
                    <tr>
                        <th>Title</th>
                        <th>Author</th>
                        <th>Year</th>
                    </tr>
                    <xsl:for-each select="book">
                        <tr>
                            <td><xsl:value-of select="title" /></td>
                            <td><xsl:value-of select="author" /></td>
                            <td><xsl:value-of select="year" /></td>
                        </tr>
                    </xsl:for-each>
                </table>
            </body>
        </html>
    </xsl:template>

</xsl:stylesheet>
```

2.Write JavaScript using regular expression search() and replace().

After Clicking Button:



Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Search and Replace Example</title>
</head>
<body>

    <h1>Search and Replace Text</h1>
    <p id="text">I love apple pie and apple juice and apple tart.</p>

    <button onclick="searchAndReplace()">Search and Replace "apple" with
"orange"</button>

    <p id="result"></p>
```

```
    <script>
        function searchAndReplace() {
            let text = document.getElementById("text").textContent;
            let words = text.split(" ");
            let positions = [];

            for (let i = 0; i < words.length; i++) {
                if (words[i].toLowerCase() === "apple") {
                    positions.push(i + 1);
                }
            }

            if (positions.length > 0) {
                let replacedText = text.replace(/apple/g, "orange");
                document.getElementById("result").textContent = "Word Positions:
" + positions.join(", ") + " | Updated Text: " + replacedText;
            } else {
                document.getElementById("result").textContent = "The word 'apple'
was not found in the text.";
            }
        }
    </script>

</body>
</html>
```