WEB TECHNOLOGY

COURSE CODE : U18ITI6203   **BATCH NO:** 6

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1. Create a HTML form for train ticket reservation. The form should have features to select a train number and name from the list box,class of travel date of travel and number of tickets . Write a javascript to check if the date of travel is within a month.

HTML File :

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Train-Ticket Reservation</title>
    <link rel="stylesheet" href="./style.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link
href="https://fonts.googleapis.com/css2?family=Raleway:ital,wght@1,200
&display=swap" rel="stylesheet">
</head>

<body>
    <h1>Train-Ticket Reservation</h1>
    <form action="./index.html">
        <div>
            <label for="name">Name</label>
            <input type="text" placeholder="Enter your name" required>
        </div>
```

```html
        <div>
            <label for="phone">Phone Number</label>
            <input type="number" placeholder="Enter your Number" id="phone" required>
            <span class="none">It should be a phone number!!!</span>
        </div>
        <div>
            <label for="trainid">Train Number and Name</label>
            <select name="trainname" id="trainid" required>
                <option value="101 Kovai Express">101 Kovai Express</option>
                <option value="201 Chennai Express">201 Chennai Express</option>
                <option value="301 Salem Express">301 Salem Express</option>
                <option value="401 Salem Express">401 Trichy Express</option>
            </select>
        </div>
        <div>
            <label for="class">Class of Travel</label>
            <select name="class" id="class" required>
                <option value="1st">First Class</option>
                <option value="2nd">Second Class</option>
                <option value="a/c">With A/C</option>
            </select>
        </div>
        <div>
            <label for="date">Select Your Date of Travel</label>
            <input type="date" id="date" required>
            <p class="none">Please Select date within a month</p>
        </div>
        <div>
            <label for="number">Number of Tickets</label>
            <input type="number" id="number" placeholder="Enter the No. of Tickets" required>
        </div>
        <button type="submit">Check Availability</button>
    </form>
    <script src="./script.js"></script>
</body>
```

```html
</html>
```

CSS File:

```css
*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: 'raleway', sans-serif;
}

body{
    width: 100vw;
    height: 140vh;
    display: flex;
    flex-direction: column;
    align-items: center;
    background-image: linear-gradient(to right top, #051937, #004d7a,
#008793, #00bf72, #a8eb12);
}

h1{
    margin-top: 30px;
}

form{
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: space-evenly;
    height: 90vh;
    width: 100vw;
}

form div{
    display: flex;
    flex-direction: column;
    height: 15vh;
    width: 60vw;
    justify-content: space-evenly;
```

```css
        align-items: center;
}

label{
        font-weight: bolder;
        font-size: 20px;
        color: white;
}

input, select{
        border: none;
        padding: 10px;
        width: 100%;
        max-width: 450px;
        min-width: 300px;
        text-align: center;
        box-shadow: 2px 5px 10px 1px;
}

option{
        padding: 10px;
}

button{
        padding: 10px;
        font-weight: bolder;
        color:black;
        font-size: 18px;
}

input:focus{
        border: none;
        outline: none;
}

.none{
        display: none;
}

p{
        font-size: 20px;
```

```css
        color: black;

}

span{
        color: black;
        font-style:bold;
}
```

JS File:

```javascript
const date=document.querySelector('#date')
const phone=document.querySelector('#phone')
const p=document.querySelector('p')
const phones=document.querySelector('span')

date.addEventListener('input', ()=>{
    const month=new Date()
    const inputDate=new Date(date.value)

    if(month.getMonth()!==inputDate.getMonth()){
        p.classList.remove('none')
        setTimeout(()=>{
            p.classList.add('none')
        }, 7000)
        date.value=0
    }
})

phone.addEventListener('input', ()=>{
    if(phone.value.length!==10){
        phones.classList.remove('none')
    }
    else phones.classList.add('none')
})
```

Train-Ticket Reservation

Name

ABC

Phone Number

Enter your Number

It should be a phone number!!!

Train Number and Name

101 Kovai Express

Class of Travel

First Class

Select Your Date of Travel

30/04/2022

Number of Tickets

Enter the No. of Tickets

Check Availability

Train-Ticket Reservation

Name

ABC

Phone Number

9361366690

Train Number and Name

101 Kovai Express

Class of Travel

First Class

Select Your Date of Travel

30/04/2022

Number of Tickets

2

Check Availability

2. Create a XML document consisting of details of various books in the library. Validate the document using XML DTD and schema.

XML File:

```xml
<?xml version ="1.0"?>
<?xml-stylesheet type='text/xsl' href='display.xsl'?>
<!DOCTYPE library SYSTEM "book_list.dtd">

<library xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="book_list.xsd">
            <book>
                        <title>Web programming</title>
                        <author>Chrisbates</author>
                        <ID>1001</ID>
                        <publisher>Wiley</publisher>
                        <edition>3</edition>
                        <price>350</price>
            </book>
            <book>
                        <title>The Lord Of Rings</title>
                        <author>J.R.R Tolkien</author>
                        <ID>1002</ID>
                        <publisher>person</publisher>
                        <edition>4</edition>
                        <price>430</price>
            </book>
            <book>
                        <title>Twilight Saga</title>
                        <author>Stephenie Meyer</author>
                        <ID>1003</ID>
                        <publisher>Goodreads</publisher>
                        <edition>3</edition>
                        <price>600</price>
            </book>
             <book>
                        <title>Atomic Habits</title>
                        <author>James Clear</author>
                        <ID>1004</ID>
                        <publisher>Newyork Times</publisher>
```

```
                              <edition>4</edition>
                              <price>200</price>
                   </book>
</library>
```

DTD File:

```
?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE library[
<!ELEMENT library (book*)>
<!ELEMENT book (title,author,ID,publisher,edition,price)>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ELEMENT ID (#PCDATA)>
<!ELEMENT publisher (#PCDATA)>
<!ELEMENT edition (#PCDATA)>
<!ELEMENT price (#PCDATA)>
]>
```

XSL File:

```
<?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>
            <body
style="font-family:Arial;font-size:12pt;background-color:#F9B9C2">
                <h1 style="text-align:center;
margin-top:40px;color:black;">Book List In Library</h1>
                <table border="1" cellpadding="5" style="font-weight:
bold; background-color:white;margin-top:50px;" align="center" >
                    <tr style="background-color:#E2748B">
                        <th style="padding:30px;">Title</th>
                        <th>Author</th>
                        <th>Id</th>
                        <th>Publisher</th>
                        <th>Edition</th>
                        <th>Price</th>
                    </tr>
                    <xsl:for-each select="library/book">
```

```xml
                                    <tr>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:40px; color:
black;</xsl:text>

                            </xsl:attribute>
                            <xsl:value-of select="title"/>
                        </td>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:20px; color:
black;</xsl:text>

                            </xsl:attribute>
                            <xsl:value-of select="author"/>
                        </td>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:20px; color:
black;</xsl:text>

                            </xsl:attribute>
                            <xsl:value-of select="ID"/>
                        </td>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:20px; color:
black;</xsl:text>

                            </xsl:attribute><xsl:value-of
select="publisher"/>
                        </td>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:20px; color:
black;</xsl:text>

                            </xsl:attribute><xsl:value-of
select="edition"/>
                        </td>
                        <td>
                            <xsl:attribute name="style">
                            <xsl:text>padding:20px; color:
black;</xsl:text>
```
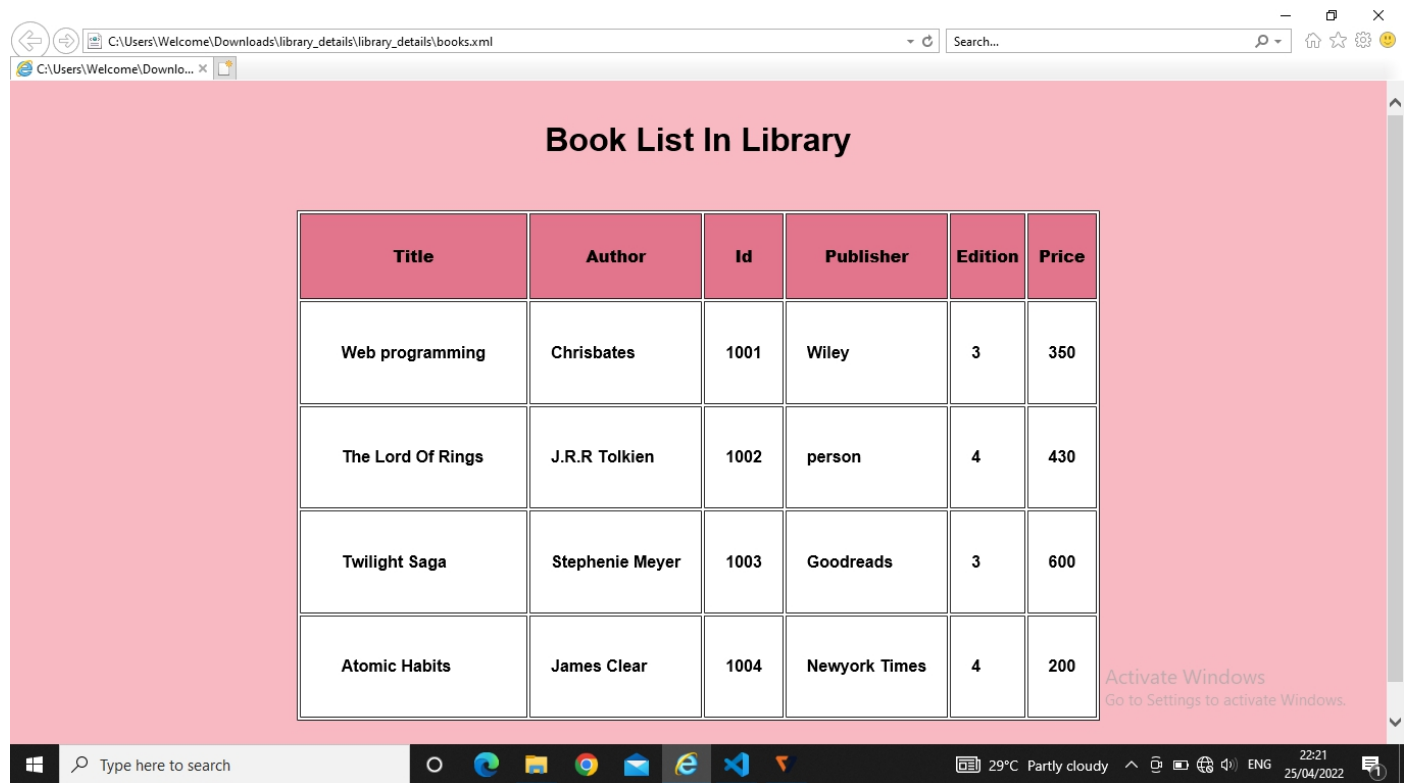
```
                                        </xsl:attribute><xsl:value-of
select="price"/>
                                </td>
                        </tr>
                </xsl:for-each>
            </table>
        </body>
    </html>
</xsl:template>
</xsl:stylesheet>
```

XSD File:

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema elementFormDefault="qualified"
attributeFormDefault="unqualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="library">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="book" maxOccurs="unbounded">
                    <xs:complexType>
                        <xs:sequence>
                            <xs:element name="title"
type="xs:string"/>
                            <xs:element name="author"
type="xs:string"/>
                            <xs:element name="ID"
type="xs:string"/>
                            <xs:element name="publisher"
type="xs:string"/>
                            <xs:element name="edition"
type="xs:int"/>
                            <xs:element name="price"
type="xs:decimal"/>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
```

</xs:schema>

Output:

Book List In Library

Title	Author	Id	Publisher	Edition	Price
Web programming	Chrisbates	1001	Wiley	3	350
The Lord Of Rings	J.R.R Tolkien	1002	person	4	430
Twilight Saga	Stephenie Meyer	1003	Goodreads	3	600
Atomic Habits	James Clear	1004	Newyork Times	4	200