WADS LAB 23 Jan 2025
TASK

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1. Display xml file using css file

Whiskers   Persian

White   3

Whiskers is a fluffy Persian cat with soft   Salmon
white fur and large blue eyes. She enjoys
lounging around the house and being
pampered.

Chasing laser pointers Taking naps in
sunbeams

Shadow   Maine Coon

Grey   5

Shadow is a large Maine Coon with sleek   Tuna
grey fur. He's curious and loves to explore
new places, often climbing up high places
in the house.

Climbing shelves Playing with string

Chester   Tabby

Orange   2

Chester is an energetic tabby with a playful   Chicken
spirit. He loves running around the house
and playing with toys.

Running around the yard Chasing small
toys

Luna   Siamese

Seal Point   4

Luna is a beautiful Siamese cat with   Chicken liver
striking blue eyes and a sleek coat. She's
very vocal and loves to be the center of
attention.

Talking to her owner Playing fetch

(cats.css)

```css
cats {
    font-family: 'Arial', sans-serif;
    background-color: #f9f9f9;
    margin: 40px;
    padding: 30px;
    border-radius: 15px;
    box-shadow: 0 0 15px rgba(0, 0, 0, 0.1);
    max-width: 1000px;
    margin-left: auto;
    margin-right: auto;
}

cat {
    background-color: #ffffff;
    margin: 40px 0;
    padding: 25px;
    border: 3px solid #e0e0e0;
    border-radius: 15px;
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
    display: grid;
    grid-template-columns: 1fr 2fr;
    gap: 20px;
}

cat:hover {
    background-color: #f0f8ff;
}

.cat-info {
    padding: 10px;
    display: flex;
    flex-direction: column;
    justify-content: space-between;
}

name {
    font-size: 2.2em;
    font-weight: bold;
    color: #e74c3c;
    margin-bottom: 10px;
}

breed {
    font-size: 1.5em;
    color: #2980b9;
    margin-bottom: 8px;
```

```css
}

color {
  font-size: 1.4em;
  color: #27ae60;
  margin-bottom: 8px;
}

age {
  font-size: 1.3em;
  color: #f39c12;
  margin-bottom: 8px;
}

 .cat-description {
  padding: 10px;
  background-color: #fafafa;
  border-radius: 10px;
}

.description {
  font-size: 1.2em;
  color: #34495e;
  margin-bottom: 20px;
}

.favoriteFood {
  font-size: 1.3em;
  font-weight: bold;
  color: #8e44ad;
  margin-bottom: 10px;
}

.likes {
  margin-top: 20px;
}

.likes item {
  font-size: 1.2em;
  color: #666;
  padding-left: 20px;
  margin-bottom: 5px;
  display: list-item;
}

.likes item:last-child {
  margin-bottom: 0;
}
```

```css
cat + cat {
  margin-top: 50px;
}
```

(cats.xml)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="cats.css"?>
<cats>
  <cat>
    <name>Whiskers</name>
    <breed>Persian</breed>
    <color>White</color>
    <age>3</age>
    <description>Whiskers is a fluffy Persian cat with soft white fur and
large blue eyes. She enjoys lounging around the house and being
pampered.</description>
    <favoriteFood>Salmon</favoriteFood>
    <likes>
      <item>Chasing laser pointers</item>
      <item>Taking naps in sunbeams</item>
    </likes>
  </cat>

  <cat>
    <name>Shadow</name>
    <breed>Maine Coon</breed>
    <color>Grey</color>
    <age>5</age>
    <description>Shadow is a large Maine Coon with sleek grey fur. He's
curious and loves to explore new places, often climbing up high places in the
house.</description>
    <favoriteFood>Tuna</favoriteFood>
    <likes>
      <item>Climbing shelves</item>
      <item>Playing with string</item>
    </likes>
  </cat>

  <cat>
    <name>Chester</name>
    <breed>Tabby</breed>
    <color>Orange</color>
    <age>2</age>
```

```xml
    <description>Chester is an energetic tabby with a playful spirit. He loves
running around the house and playing with toys.</description>
    <favoriteFood>Chicken</favoriteFood>
    <likes>
      <item>Running around the yard</item>
      <item>Chasing small toys</item>
    </likes>
  </cat>

  <cat>
    <name>Luna</name>
    <breed>Siamese</breed>
    <color>Seal Point</color>
    <age>4</age>
    <description>Luna is a beautiful Siamese cat with striking blue eyes and a
sleek coat. She's very vocal and loves to be the center of
attention.</description>
    <favoriteFood>Chicken liver</favoriteFood>
    <likes>
      <item>Talking to her owner</item>
      <item>Playing fetch</item>
    </likes>
  </cat>
</cats>
```

2. Construct xml data in tabular form using Javascript

Cat Information

Name	Breed	Color	Age
Whiskers	Persian	White	3
Shadow	Maine Coon	Grey	5
Chester	Tabby	Orange	2

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Cat Information</title>
    <style>
        table { width: 100%; border-collapse: collapse; }
        th, td { padding: 8px; border: 1px solid #ddd; text-align: left; }
        th { background-color: #f2f2f2; }
    </style>
</head>
<body>

<h1>Cat Information</h1>
<table id="catTable">
    <thead>
        <tr>
            <th>Name</th>
            <th>Breed</th>
            <th>Color</th>
            <th>Age</th>
        </tr>
    </thead>
    <tbody>
        <!-- JavaScript will populate the table -->
    </tbody>
</table>

<script>
// Function to load XML data and display it in the table
function loadXMLData() {
    const xmlString = `<?xml version="1.0" encoding="UTF-8"?>
    <cats>
        <cat>
            <name>Whiskers</name>
            <breed>Persian</breed>
            <color>White</color>
```

```
                <age>3</age>
            </cat>
            <cat>
                <name>Shadow</name>
                <breed>Maine Coon</breed>
                <color>Grey</color>
                <age>5</age>
            </cat>
            <cat>
                <name>Chester</name>
                <breed>Tabby</breed>
                <color>Orange</color>
                <age>2</age>
            </cat>
        </cats>`;

        // Parse the XML string into an XML document
        const parser = new DOMParser();
        const xmlDoc = parser.parseFromString(xmlString, "application/xml");

        // Get all cat nodes
        const cats = xmlDoc.getElementsByTagName("cat");

        // Loop through each cat and add rows to the table
        const tableBody =
document.getElementById("catTable").getElementsByTagName("tbody")[0];
        for (let i = 0; i < cats.length; i++) {
            const cat = cats[i];
            const name = cat.getElementsByTagName("name")[0].textContent;
            const breed = cat.getElementsByTagName("breed")[0].textContent;
            const color = cat.getElementsByTagName("color")[0].textContent;
            const age = cat.getElementsByTagName("age")[0].textContent;

            // Create a new table row
            const row = document.createElement("tr");
            row.innerHTML =
`<td>${name}</td><td>${breed}</td><td>${color}</td><td>${age}</td>`;
            tableBody.appendChild(row);
        }
}

// Load the data when the page is ready
window.onload = loadXMLData;
</script>

</body>
</html>
```

3. 2025 Calendar Using xml,js,css,html

2025 Yearly Calendar

January
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

February
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

March
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

April
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

June
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

October
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

November
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22

December
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>2025 Calendar</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f9;
            margin: 0;
            padding: 20px;
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
        }

        h1 {
            color: #003366;
            margin-bottom: 20px;
            font-size: 24px;
        }

        #calendarContainer {
            display: grid;
            grid-template-columns: repeat(3, 1fr);
            gap: 20px;
            width: 150%;
            max-width: 1050px;
        }

        .month-container {
            background-color: #4A90E2;
            color: white;
            border-radius: 8px;
            overflow: hidden;
            display: flex;
            flex-direction: column;
            align-items: center;
        }

        .month-name {
            text-align: center;
            font-weight: bold;
            font-size: 20px;
```

```css
            padding: 15px;
            background-color: #003366;
            width: 100%;
        }

        table {
            width: 10%;
            border-collapse: collapse;
        }

        th, td {
            text-align: center;
            padding: 10px;
            color: white;
            font-size: 16px;
            width: 1200px; /* Further increased width */
        }

        th {
            background-color: #003366;
        }

        td {
            background-color: #4A90E2;
            height: 50px; /* Kept height balanced */
        }

        td.empty {
            background-color: #4A90E2;
            color: #4A90E2;
        }
    </style>
</head>
<body>

<h1>2025 Yearly Calendar</h1>
<div id="calendarContainer"></div>

<script>
// XML data for the 2025 calendar
const xmlData = `<?xml version="1.0" encoding="UTF-8"?>
<calendar>
  <year value="2025">
    <month name="January" days="31" />
    <month name="February" days="28" />
    <month name="March" days="31" />
    <month name="April" days="30" />
    <month name="May" days="31" />
```

```
        <month name="June" days="30" />
        <month name="July" days="31" />
        <month name="August" days="31" />
        <month name="September" days="30" />
        <month name="October" days="31" />
        <month name="November" days="30" />
        <month name="December" days="31" />
    </year>
</calendar>`;

function loadCalendar() {
    const parser = new DOMParser();
    const xmlDoc = parser.parseFromString(xmlData, "application/xml");
    const months = xmlDoc.getElementsByTagName("month");
    const calendarContainer = document.getElementById("calendarContainer");

    for (let month of months) {
        const monthName = month.getAttribute("name");
        const daysInMonth = parseInt(month.getAttribute("days"));

        // Create container for each month
        const monthContainer = document.createElement("div");
        monthContainer.className = "month-container";

        // Month name header
        const monthHeader = document.createElement("div");
        monthHeader.className = "month-name";
        monthHeader.textContent = monthName;
        monthContainer.appendChild(monthHeader);

        // Create table for each month
        const table = document.createElement("table");

        // Add weekday headers
        const thead = document.createElement("thead");
        const headerRow = document.createElement("tr");
        ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"].forEach(day => {
            const th = document.createElement("th");
            th.textContent = day;
            headerRow.appendChild(th);
        });
        thead.appendChild(headerRow);
        table.appendChild(thead);

        // Add days
        const tbody = document.createElement("tbody");
        let dayCounter = 1;
        let firstDay = new Date(`2025-${monthName}-01`).getDay();
```

```javascript
        let row = document.createElement("tr");

        // Add empty cells for days before the first of the month
        for (let i = 0; i < firstDay; i++) {
            const cell = document.createElement("td");
            cell.className = "empty";
            row.appendChild(cell);
        }

        // Add days of the month
        for (let i = firstDay; i < 7; i++) {
            if (dayCounter <= daysInMonth) {
                const cell = document.createElement("td");
                cell.textContent = dayCounter++;
                row.appendChild(cell);
            }
        }
        tbody.appendChild(row);

        // Continue adding rows until the month is complete
        while (dayCounter <= daysInMonth) {
            row = document.createElement("tr");
            for (let i = 0; i < 7 && dayCounter <= daysInMonth; i++) {
                const cell = document.createElement("td");
                cell.textContent = dayCounter++;
                row.appendChild(cell);
            }
            tbody.appendChild(row);
        }

        table.appendChild(tbody);
        monthContainer.appendChild(table);
        calendarContainer.appendChild(monthContainer);
    }
}

// Load the calendar when the page loads
window.onload = loadCalendar;
</script>

</body>
</html>
```