ASSIGNMENT: AJAX INTRODUCTION & FETCH METHOD | SUSHANT KUMAR | PH. NO. +91 9914207199 | sgbharat.joint@gmail.com

Problem statement:

Using the above XML file let's try to navigate between CDs (tags in XML) with your knowledge gained on AJAX.

```
Artist: Bob Dylan
Title: Empire Burlesque
Year: 1985
```

Solution:

Html Code:

```
<!DOCTYPE html>
<html lang="en">
    <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>Ajax Assignment - CD Catalog</title>
    <!-- css file -->
    <link rel="stylesheet" href="ajaxasgn.css">
</head>
<body>
   <!-- main container div -->
   <div class="container">
        <!-- catalog div to display content from catalog file -->
        <div class="catalog" id="catalog">
        </div>
        <!-- div for buttons -->
        <div class="buttons" id="buttons">
            <!-- back button -->
            <button id="prev" onclick="back()"><i class="bi bi-arrow-left-circle-</pre>
fill"></i>Back</button>
            <!-- next button -->
            <button id="next" onclick="next()">Next<i class="bi bi-arrow-right-circle-</pre>
fill"></i></button>
        </div>
   </div>
   <!-- js file -->
    <script src="ajaxasgn.js" type="text/javascript"></script>
</body>
```

JS Code:

```
//variable for increment and decrement
var i = 0;
//variable to store value of CD tag
var cdTag;
//variable to store length of cd variable
var cdLen;
//calling the function to display and make connection with the xml file
displayContent(i);
function displayContent(i) {
   //xhr request initialization
   const textval = new XMLHttpRequest();
   //definition when event/window loads
   textval.onload = function () {
       const doc = textval.responseXML; //retrieving xml document
       cdTag = doc.getElementsByTagName("CD");
       cdLen = cdTag.length; //storing length of cd
       //calling the function to print values
       defData(i);
   };
   //ajax connection query
   textval.open("GET", "ajaxasgn.xml"); //xml file
   textval.send();
//function definition to display content
function defData(i) {
   let display;
   //display content in three rows of tables
   "Title :" +
cdTag[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue + "" +
"Year :" + cdTag[i].getElementsByTagName("YEAR")[0].childNodes[0].nodeValue
""
   document.getElementById('catalog').innerHTML = display;
//function definition for back button
function back() {
   //checks if i is greater than [0] or not
   if (i > 0) {
       i--; //does decrement if found true
       displayContent(i); //returns the value to the displayContent function
//function definition for next button
function next() {
   //checks if i is smaller than the one less than length of cd variable
   if (i < cdLen - 1) {
       i++; //does increment if true
      displayContent(i); //returns the value to the function
```

CSS Code:

```
/* bootstrap icon stylesheet */
@import url("https://cdn.jsdelivr.net/npm/bootstrap-icons@1.8.2/font/bootstrap-icons.css");
/* universal selector */
*{
    margin:0;
    padding: 0;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
/* main container div */
.container{
    justify-items: center;
    background-color:#cd96f2;
    font-size:1.5em;
/* styling of buttons div */
.buttons{
    width: 100%;
/* styling of buttons */
button{
   justify-content: center;
    cursor: pointer;
/* styling of table heading in catalog div */
th{
    text-align: right;
/* hover effect for buttons */
button:hover{
    background-color:rgb(210, 210, 210);
```

Output:



Default display



By next button



By back button

Reference XML File:

```
<?xml version="1.0" encoding="UTF-8"?>
<CATALOG>
   <CD>
       <TITLE>Empire Burlesque</TITLE>
       <ARTIST>Bob Dylan</ARTIST>
       <COUNTRY>USA</COUNTRY>
       <COMPANY>Columbia</COMPANY>
       <PRICE>10.90</PRICE>
       <YEAR>1985</YEAR>
   </CD>
   <CD>
       <TITLE>Hide your heart</TITLE>
       <ARTIST>Bonnie Tyler</ARTIST>
       <COUNTRY>UK</COUNTRY>
       <COMPANY>CBS Records</COMPANY>
       <PRICE>9.90</PRICE>
       <YEAR>1988</YEAR>
   </CD>
   <CD>
       <TITLE>Greatest Hits</TITLE>
       <ARTIST>Dolly Parton</ARTIST>
       <COUNTRY>USA</COUNTRY>
       <COMPANY>RCA</COMPANY>
       <PRICE>9.90</PRICE>
       <YEAR>1982</YEAR>
   </CD>
   <CD>
       <TITLE>Still got the blues</TITLE>
       <ARTIST>Gary Moore</ARTIST>
       <COUNTRY>UK</COUNTRY>
       <COMPANY>Virgin records</COMPANY>
       <PRICE>10.20</PRICE>
       <YEAR>1990</YEAR>
   </CD>
   <CD>
       <TITLE>Eros</TITLE>
       <ARTIST>Eros Ramazzotti
       <COUNTRY>EU</COUNTRY>
       <COMPANY>BMG</COMPANY>
       <PRICE>9.90</PRICE>
       <YEAR>1997</YEAR>
   </CD>
   <CD>
       <TITLE>One night only</TITLE>
       <ARTIST>Bee Gees
       <COUNTRY>UK</COUNTRY>
       <COMPANY>Polydor</COMPANY>
       <PRICE>10.90</PRICE>
       <YEAR>1998</YEAR>
   </CD>
   <CD>
```

```
<TITLE>Sylvias Mother</TITLE>
   <ARTIST>Dr.Hook</ARTIST>
   <COUNTRY>UK</COUNTRY>
   <COMPANY>CBS</COMPANY>
   <PRICE>8.10</PRICE>
   <YEAR>1973</YEAR>
</CD>
<CD>
   <TITLE>Maggie May</TITLE>
   <ARTIST>Rod Stewart</ARTIST>
   <COUNTRY>UK</COUNTRY>
   <COMPANY>Pickwick
   <PRICE>8.50</PRICE>
   <YEAR>1990</YEAR>
</CD>
<CD>
   <TITLE>Romanza</TITLE>
   <ARTIST>Andrea Bocelli
   <COUNTRY>EU</COUNTRY>
   <COMPANY>Polydor</COMPANY>
   <PRICE>10.80</PRICE>
   <YEAR>1996</YEAR>
</CD>
<CD>
    <TITLE>When a man loves a woman</TITLE>
   <ARTIST>Percy Sledge</ARTIST>
   <COUNTRY>USA</COUNTRY>
   <COMPANY>Atlantic</COMPANY>
   <PRICE>8.70</PRICE>
   <YEAR>1987</YEAR>
</CD>
<CD>
   <TITLE>Black angel</TITLE>
   <ARTIST>Savage Rose
   <COUNTRY>EU</COUNTRY>
   <COMPANY>Mega</COMPANY>
   <PRICE>10.90</PRICE>
   <YEAR>1995</YEAR>
</CD>
<CD>
   <TITLE>1999 Grammy Nominees</TITLE>
   <ARTIST>Many</ARTIST>
   <COUNTRY>USA</COUNTRY>
   <COMPANY>Grammy</COMPANY>
   <PRICE>10.20</PRICE>
   <YEAR>1999</YEAR>
</CD>
<CD>
    <TITLE>For the good times</TITLE>
   <ARTIST>Kenny Rogers
   <COUNTRY>UK</COUNTRY>
   <COMPANY>Mucik Master
   <PRICE>8.70</PRICE>
   <YEAR>1995</YEAR>
```

```
</CD>
<CD>
    <TITLE>Big Willie style</TITLE>
    <ARTIST>Will Smith</ARTIST>
    <COUNTRY>USA</COUNTRY>
    <COMPANY>Columbia</COMPANY>
    <PRICE>9.90</PRICE>
    <YEAR>1997</YEAR>
</CD>
<CD>
    <TITLE>Tupelo Honey</TITLE>
    <ARTIST>Van Morrison
    <COUNTRY>UK</COUNTRY>
    <COMPANY>Polydor</COMPANY>
    <PRICE>8.20</PRICE>
    <YEAR>1971</YEAR>
</CD>
<CD>
    <TITLE>Soulsville</TITLE>
    <ARTIST>Jorn Hoel</ARTIST>
    <COUNTRY>Norway</COUNTRY>
    <COMPANY>WEA</COMPANY>
    <PRICE>7.90</PRICE>
    <YEAR>1996</YEAR>
</CD>
<CD>
    <TITLE>The very best of</TITLE>
    <ARTIST>Cat Stevens
    <COUNTRY>UK</COUNTRY>
    <COMPANY>Island</COMPANY>
    <PRICE>8.90</PRICE>
    <YEAR>1990</YEAR>
</CD>
<CD>
    <TITLE>Stop</TITLE>
    <ARTIST>Sam Brown
    <COUNTRY>UK</COUNTRY>
    <COMPANY>A and M</COMPANY>
    <PRICE>8.90</PRICE>
    <YEAR>1988</YEAR>
</CD>
<CD>
    <TITLE>Bridge of Spies</TITLE>
    <ARTIST>T'Pau</ARTIST>
    <COUNTRY>UK</COUNTRY>
    <COMPANY>Siren</COMPANY>
    <PRICE>7.90</PRICE>
    <YEAR>1987</YEAR>
</CD>
<CD>
    <TITLE>Private Dancer</TITLE>
    <ARTIST>Tina Turner
    <COUNTRY>UK</COUNTRY>
    <COMPANY>Capitol</COMPANY>
```

```
<PRICE>8.90</PRICE>
       <YEAR>1983</YEAR>
  </CD>
  <CD>
       <TITLE>Midt om natten</TITLE>
       <ARTIST>Kim Larsen
       <COUNTRY>EU</COUNTRY>
       <COMPANY>Medley</COMPANY>
      <PRICE>7.80</PRICE>
       <YEAR>1983</YEAR>
  </CD>
   <CD>
       <TITLE>Pavarotti Gala Concert</TITLE>
       <ARTIST>Luciano Pavarotti</ARTIST>
       <COUNTRY>UK</COUNTRY>
       <COMPANY>DECCA</COMPANY>
       <PRICE>9.90</PRICE>
       <YEAR>1991</YEAR>
  </CD>
   <CD>
       <TITLE>The dock of the bay</TITLE>
       <ARTIST>Otis Redding</ARTIST>
       <COUNTRY>USA</COUNTRY>
       <COMPANY>Stax Records</COMPANY>
       <PRICE>7.90</PRICE>
       <YEAR>1968</YEAR>
  </CD>
   <CD>
       <TITLE>Picture book</TITLE>
       <ARTIST>Simply Red</ARTIST>
       <COUNTRY>EU</COUNTRY>
       <COMPANY>Elektra</COMPANY>
       <PRICE>7.20</PRICE>
       <YEAR>1985</YEAR>
  </CD>
   <CD>
       <TITLE>Red</TITLE>
       <ARTIST>The Communards/ARTIST>
       <COUNTRY>UK</COUNTRY>
       <COMPANY>London</COMPANY>
       <PRICE>7.80</PRICE>
       <YEAR>1987</YEAR>
  </CD>
   <CD>
       <TITLE>Unchain my heart</TITLE>
       <ARTIST>Joe Cocker</ARTIST>
       <COUNTRY>USA</COUNTRY>
       <COMPANY>EMI</COMPANY>
       <PRICE>8.20</PRICE>
       <YEAR>1987</YEAR>
   </CD>
/CATALOG>
```