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Cs 20

Assignment 9: JSON

Link to Site Running: <http://www.samr1.sgedu.site/index.html>

Question:

1. Which do you prefer: XML or JSON? And why?

I prefer the XML format after using both languages for these assignments, as I feel like XML is much more straightforward and easier to understand, even if you don’t have experience. For example, XML tags can be whatever you want, and as stacked as you want, leading to maximum customizability and readability. JSON is also customizable, but with all the brackets and curly brackets it is much more convoluted.

Code:

<!DOCTYPE html>

<html>

<head>

<link rel="shortcut icon" href="data:image/x-icon;," type="image/x-icon">

<script type="text/javascript" src="https://ajax.googleapis.com/ajax/libs/jquery/1.6.2/jquery.min.js"></script>

<meta charset="utf-8">

<title>SetList</title>

<script>

var bands = [];

const song = {

title:"title",

artist:"artist",

genre:["pop","contemporary"],

year: 9999

};

$.getJSON( "setlist.json", function( data ) {

copy = data;

document.getElementById("serialized").innerHTML += JSON.stringify(copy);

for(i = 0; i < 11; i++){

const s = Object.create(song);

s.title = JSON.stringify(data[i].title);

s.artist = JSON.stringify(data[i].artist);

s.genre = JSON.stringify(data[i].musicGenres);

s.year = JSON.stringify(data[i].year);

bands.push(s);

print("all", s);

}})

function print(out, s){

document.getElementById(out).innerHTML += (s.title + "<br>" + "Artist: " + s.artist + "<br>" + "Genre: " + s.genre.substring(2,bands[i].genre.length-2) + "<br>" + "Released " + s.year + "<br>" + "<br>");

}

function sort(){

var gen = document.getElementById("selection").value;

document.getElementById("songs").innerHTML += ("<strong>" + "Showing Songs with Genre: " + gen + "</strong><br><br>");

for (i = 0; i < 11; i++){

if (gen == bands[i].genre.substring(2,bands[i].genre.length-2)){

print("songs", bands[i]);

}

}

document.getElementById("backButton").innerHTML = ("<a href='index.html' style='border: 8px blue solid; padding: 15px; border radius: 10px; margin: 15px; text-decoration:none;'>Reset</a>")

}

</script>

</head>

<body style="font-family: Baskerville, 'Palatino Linotype', Palatino, 'Century Schoolbook L', 'Times New Roman', 'serif'; font-size: 20px; display:flex; justify-content: center; flex-direction: column;text-align: center;">

<div>SetList Sorter!<br>Slect Genre Below and Click Filter!</div>

<form>

<select id="selection">

<option value="Contemporary">Contemporary</option>

<option value="Mowtown">Mowtown</option>

<option value="Rock">Rock</option>

<option value="Throwback">Throwback</option>

</select>

<button type="button" onClick="sort()">Filter</button>

<div id="songs"> </div>

<div id="backButton"> </div><br><br><br><br>

<div id="serialized">Serialized Data: </div><br>

<div id="all">All Possible Songs:<br> </div><br>

</form>

</body>

</html>