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CS20 Lab 9

JSON Song List

**Website Link:** <https://wmcleish.github.io/CS20_A9/>

**Questions:** I prefer JSON, because it provides an easier way to integrate with HTML and also provides additional functionality that makes manipulating the data easier.

**Code:**

**Index.html**

<html>

<head>

<meta charset="utf-8">

<title>Song List</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<header>

<h1>Song List</h1>

</header>

<h3>Serial Display</h3>

<div id="serial"></div>

<h3>User Friendly Display</h3>

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

<h3>Genre Filtering</h3>

<div id="input">

<form>

<p>Filter the genre:</p>

<select id="pickgenre">

<option value="none">Please Select a Genre</option>

<option value="R and B">R and B</option>

<option value="Pop">Pop</option>

<option value="House">House</option>

<option value="Hip Hop, House">Hip Hop, House</option>

</select>

<input type="button" id="filter" value="Filter">

</form>

</div>

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

<script>

$.getJSON("https://wmcleish.github.io/CS20\_A9/song\_list.json", function(data){

$("#serial").html(JSON.stringify(data));

for (let i = 0; i < data.setlist.length; i++){

for (let j in data.setlist[i]){

$("#songs").append(data.setlist[i][j] + "</br>");

}

$("#songs").append("</br>");

$("#genres").append(data.setlist[i]["title"] + "</br>");

}

$("#filter").click(function(){

$("#genres").html("");

// $("#genres").append($("#pickgenre").val());

if ($("#pickgenre").val() == "none"){

for (let i = 0; i < data.setlist.length; i++){

$("#genres").append(data.setlist[i]["title"] + "</br>");

}

} else {

for (let i = 0; i < data.setlist.length; i++){

if (data.setlist[i]["genres"] == $("#pickgenre").val()){

$("#genres").append(data.setlist[i]["title"] + "</br>");

}

}

}

});

});

</script>

<div id="genres"></div>

</body>

</html>

**Styles.css**

body {

font-family: 'Courier New', Courier, monospace;

text-align: center;

}

**Song\_list.json**

{

"bandName" : "Party Crashers",

"setlist" : [

{

"title" : "Sing",

"artists" : "Ed Sheeran",

"genres" : "R and B",

"year" : 2014

},

{

"title" : "Summer",

"artists" : "Calvin Harris",

"genres" : "Pop",

"year" : 2014

},

{

"title" : "Burn",

"artists" : "Ellie Goulding",

"genres" : "Pop",

"year" : 2013

},

{

"title" : "Sky Full of Stars",

"artists" : "Coldplay",

"genres" : "House",

"year" : 2014

},

{

"title" : "Call Me Maybe",

"artists" : "Carly Rae Jepsen",

"genres" : "Pop",

"year" : 2011

},

{

"title" : "We Found Love",

"artists" : "Rihanna",

"genres" : "House",

"year" : 2011

},

{

"title" : "Good Feeling",

"artists" : "Flo Rida, Avicii",

"genres" : "Hip Hop, House",

"year" : 2011

},

{

"title" : "Starships",

"artists" : "Nicki Minaj",

"genres" : "Pop",

"year" : 2012

},

{

"title" : "Gangnam Style",

"artists" : "Psy",

"genres" : "Pop",

"year" : 2012

},

{

"title" : "You Make Me Feel",

"artists" : "Cobra Starship",

"genres" : "Pop",

"year" : 2011

}

]

}