JSON Song List Deliverables

JSON1 URL: <https://nicholasc.sgedu.site/HW_7/json1.html>

JSON2 URL: <https://nicholasc.sgedu.site/HW_7/json2.html>

Code:

JSON1:

<!DOCTYPE html>

<html>

<head>

<title>JSON1</title>

</head>

<body>

<pre id="song-list"></pre>

<script>

var songList = {

"songs": [

{

"artist": "The Beatles",

"title": "Hey Jude",

"genre": ["Rock", "Pop"],

"year": 1968

},

{

"artist": "Johnny Cash",

"title": "Ring of Fire",

"genre": ["Country"],

"year": 1963

},

{

"artist": "Led Zeppelin",

"title": "Stairway to Heaven",

"genre": ["Rock"],

"year": 1971

},

{

"artist": "Michael Jackson",

"title": "Billie Jean",

"genre": ["Pop", "Funk"],

"year": 1983

},

{

"artist": "Metallica",

"title": "Enter Sandman",

"genre": ["Metal"],

"year": 1991

},

{

"artist": "Nirvana",

"title": "Smells Like Teen Spirit",

"genre": ["Rock", "Grunge"],

"year": 1991

},

{

"artist": "Pink Floyd",

"title": "Wish You Were Here",

"genre": ["Rock"],

"year": 1975

},

{

"artist": "Queen",

"title": "Bohemian Rhapsody",

"genre": ["Rock", "Pop"],

"year": 1975

},

{

"artist": "The Rolling Stones",

"title": "(I Can't Get No) Satisfaction",

"genre": ["Rock"],

"year": 1965

},

{

"artist": "The Smiths",

"title": "There Is a Light That Never Goes Out",

"genre": ["Rock", "Indie"],

"year": 1986

},

{

"artist": "The Strokes",

"title": "Last Nite",

"genre": ["Rock", "Indie"],

"year": 2001

},

{

"artist": "The Who",

"title": "My Generation",

"genre": ["Rock"],

"year": 1965

},

{

"artist": "U2",

"title": "One",

"genre": ["Rock"],

"year": 1991

},

{

"artist": "Van Halen",

"title": "Jump",

"genre": ["Rock"],

"year": 1984

},

{

"artist": ["Elton John", "Kiki Dee"],

"title": "Don't Go Breaking My Heart",

"genre": ["Pop"],

"year": 1976

}

]

};

document.getElementById("song-list").textContent = JSON.stringify(songList, null, 2);

</script>

</body>

</html>

JSON2:

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>JSON2</title>

<style>

table, th, td {

border: 1px solid black;

border-collapse: collapse;

padding: 5px;

}

th {

background-color: #ccc;

}

</style>

</head>

<body>

<label for="genre-select">Select a genre:</label>

<select id="genre-select"></select>

<button id="filter-button">Filter</button>

<table>

<thead>

<tr>

<th>Title</th>

<th>Artist</th>

<th>Genre</th>

<th>Year</th>

</tr>

</thead>

<tbody id="song-table"></tbody>

</table>

<script>

fetch('songlist.json')

.then(response => response.json()) // Parse the JSON data

.then(data => {

const songTable = document.getElementById('song-table');

const genreSet = new Set();

data.songs.forEach(song => {

song.genre.forEach(genre => genreSet.add(genre));

const tr = document.createElement('tr');

const titleTd = document.createElement('td');

const artistTd = document.createElement('td');

const genreTd = document.createElement('td');

const yearTd = document.createElement('td');

titleTd.textContent = song.title;

artistTd.textContent = song.artist;

genreTd.textContent = song.genre.join(', ');

yearTd.textContent = song.year;

tr.appendChild(titleTd);

tr.appendChild(artistTd);

tr.appendChild(genreTd);

tr.appendChild(yearTd);

songTable.appendChild(tr);

});

const genreSelect = document.getElementById('genre-select');

genreSet.forEach(genre => {

const option = document.createElement('option');

option.value = genre;

option.text = genre;

genreSelect.appendChild(option);

});

const filterButton = document.getElementById('filter-button');

filterButton.addEventListener('click', () => {

const selectedGenre = genreSelect.value;

const filteredSongs = data.songs.filter(song => song.genre.includes(selectedGenre));

songTable.innerHTML = ''; // clear the existing table

filteredSongs.forEach(song => {

const tr = document.createElement('tr');

const titleTd = document.createElement('td');

const artistTd = document.createElement('td');

const genreTd = document.createElement('td');

const yearTd = document.createElement('td');

titleTd.textContent = song.title;

artistTd.textContent = song.artist;

genreTd.textContent = song.genre.join(', ');

yearTd.textContent = song.year;

tr.appendChild(titleTd);

tr.appendChild(artistTd);

tr.appendChild(genreTd);

tr.appendChild(yearTd);

songTable.appendChild(tr);

});

});

})

.catch(error => {

console.error('Error:', error);

});

</script>

</body>

</html>

songlist.json:

{

"songs": [

{

"artist": "The Beatles",

"title": "Hey Jude",

"genre": ["Rock", "Pop"],

"year": 1968

},

{

"artist": "Johnny Cash",

"title": "Ring of Fire",

"genre": ["Country"],

"year": 1963

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"genre": ["Rock"],

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"genre": ["Rock", "Indie"],

"year": 1986

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"genre": ["Rock"],

"year": 1991

},

{

"artist": "Van Halen",

"title": "Jump",

"genre": ["Rock"],

"year": 1984

},

{

"artist": "Whitney Houston",

"title": "I Will Always Love You",

"genre": ["Pop", "Soul"],

"year": 1992

}

]

}