

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.mi
n.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
    }
]
}
```