

Activities

JavaScript - Day - 4 : What is XMLHttpRequest?

26/02/2023 - Sunday - 10:00 AM : 1:00 PM

1. How to compare two JSON have the same properties without order?

a. let obj1 = { name: "Person 1", age:5 };

b. let obj2 = { age:5, name: "Person 1" };

Code:

```
function compareObjects(obj1, obj2) {
    const arr1 = Object.entries(obj1);
    const arr2 = Object.entries(obj2);

    // Sort arrays by keys
    arr1.sort((a, b) => a[0].localeCompare(b[0]));
    arr2.sort((a, b) => a[0].localeCompare(b[0]));

    const sortedObj1 = Object.fromEntries(arr1);
    const sortedObj2 = Object.fromEntries(arr2);

    if(JSON.stringify(sortedObj1) === JSON.stringify(sortedObj2))
    {
        return "Equal";
    }
    else
    {
        return "Not Equal";
    }
}

const obj1 = { name: "Person 1", age:5 };
const obj2 = { age:5, name: "Person 1" };
console.log(compareObjects(obj1, obj2));
```

OUTPUT:

```
OUTPUT ... Code
[Running] node "d:\1.
GUVI\ACTIVITES\DAY-4\Q-1\tempCodeRunnerFile.js"
Equal

[Done] exited with code=0 in 0.141 seconds
```

2. Use the rest countries' API URL -> <https://restcountries.com/v3.1/all> and display all the country flags in the console

HTML Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Day 4: Activite Question number 2 </title>
</head>
<body>
  <h1 style="color: black;"><center> Activite</center></h1>
  <h2 style="color: red;">Q-2:<span style="color: black;">Use the rest
countries' API URL -> "https://restcountries.com/v3.1/all" and display all the
country
  flags in the console</span></h2>
  <h2 style="color: blue;">Answer: <span style="color: black;">It in console
by using Inspect option</span></h2>
  <script src="Q-2.js"> </script>

</body>
</html>
```

JS code:

```
const xhr = new XMLHttpRequest();
xhr.open('GET', 'https://restcountries.com/v3.1/all');
xhr.responseType = 'json';

xhr.onload = function() {
  const json = xhr.response;
  json.forEach(country => {
    console.log("COUNTRY:", country.name.common);
    console.log("FLAG:", country.flags.alt);
    console.log("-----");
  });
};
xhr.send();
```

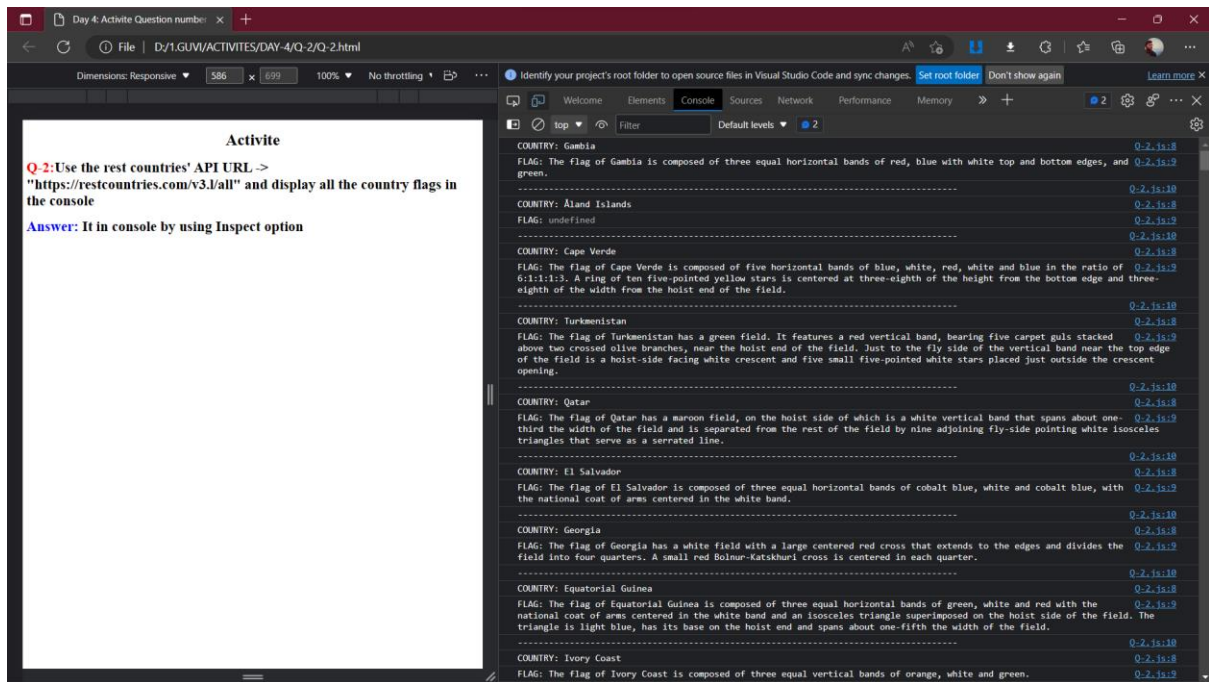
OUTPUT:



Activite

Q-2: Use the rest countries' API URL -> "https://restcountries.com/v3.1/all" and display all the country flags in the console

Answer: It in console by using Inspect option



3. Use the same rest countries and print all countries names, regions, sub-region and populations

HTML CODE:

```
<!DOCTYPE html>
<html>
<head>
  <title>Day 4: Activite Question number 3 </title>
</head>
<body>
  <h1 style="color: black;"><center> Activite</center></h1>
  <h2 style="color: red;">Q-3:<span style="color: black;">Use the same rest
countries and print all countries names, regions, sub-region and
populations</span></h2>
  <h2 style="color: blue;">Answer: <span style="color: black;">It in console
by using Inspect option</span></h2>
  <script src="Q-3.js"> </script>

</body>
</html>
```

JS CODE:

```
const xhr = new XMLHttpRequest();
xhr.open('GET', 'https://restcountries.com/v3.1/all');
xhr.responseType = 'json';

xhr.onload = function() {
  const json = xhr.response;
  json.forEach(country => {
    console.log("COUNTRY:", country.name.common);
    console.log("REGION:", country.region);
    console.log("SUB-REGION:", country.subregion);
    console.log("POPULATION:", country.population);
    console.log("-----");
  });
};
xhr.send();
```

OUTPUT :



Activite

Q-3: Use the same rest countries and print all countries names, regions, sub-region and populations

Answer: It in console by using Inspect option

Day 4: Active Question number: xDay 4: Active Question number: x

File | D:/1.GUVI/ACTIVITES/DAY-4/Q-3/Q-3.html

Dimensions: Responsive x586 x699100%No throttling

Identify your project's root folder to open source files in Visual Studio Code and sync changes. [Set root folder](#) Don't show again [Learn more](#)

WelcomeElementsConsoleSourcesNetworkPerformanceMemory

topFilterDefault levels2

Active

Q-3: Use the same rest countries and print all countries names, regions, sub-region and populations

Answer: It in console by using Inspect option

COUNTRY: Guernsey0-3.js:8

REGION: Europe0-3.js:9

SUB-REGION: Northern Europe0-3.js:10

POPULATION: 629990-3.js:11

-----0-3.js:12

COUNTRY: Liberia0-3.js:8

REGION: Africa0-3.js:9

SUB-REGION: Western Africa0-3.js:10

POPULATION: 50576770-3.js:11

-----0-3.js:12

COUNTRY: Japan0-3.js:8

REGION: Asia0-3.js:9

SUB-REGION: Eastern Asia0-3.js:10

POPULATION: 1258360210-3.js:11

-----0-3.js:12

COUNTRY: Samoa0-3.js:8

REGION: Oceania0-3.js:9

SUB-REGION: Polynesia0-3.js:10

POPULATION: 1984100-3.js:11

-----0-3.js:12

COUNTRY: Solomon Islands0-3.js:8

REGION: Oceania0-3.js:9

SUB-REGION: Melanesia0-3.js:10

POPULATION: 6868780-3.js:11

-----0-3.js:12

COUNTRY: Central African Republic0-3.js:8

REGION: Africa0-3.js:9

SUB-REGION: Middle Africa0-3.js:10

POPULATION: 48297640-3.js:11

-----0-3.js:12

COUNTRY: Italy0-3.js:8

REGION: Europe0-3.js:9

SUB-REGION: Southern Europe0-3.js:10

POPULATION: 595540230-3.js:11

-----0-3.js:12