

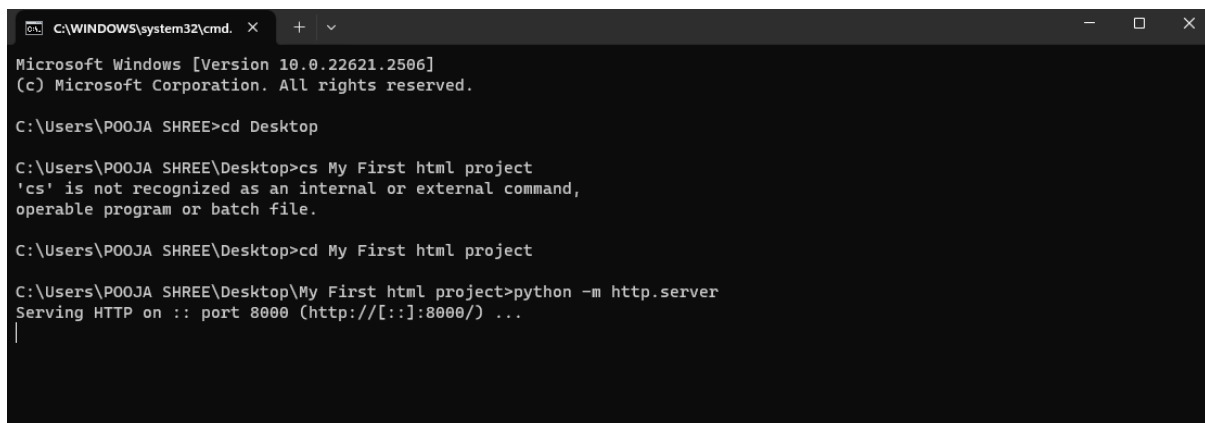
Digital Assignment-7

Asynchronously loading JSON data

Develop a web application that displays the statistics for various cricketers. Create a JSON file for storing cricketer's data that includes name, age, state, teams and country etc.

Use AJAX to asynchronously load the JSON data and dynamically update the DOM based on user interactions. Additionally, incorporate a visually appealing design to present the cricketer's statistics.

Loading a python server to load the data:



```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.22621.2506]
(c) Microsoft Corporation. All rights reserved.

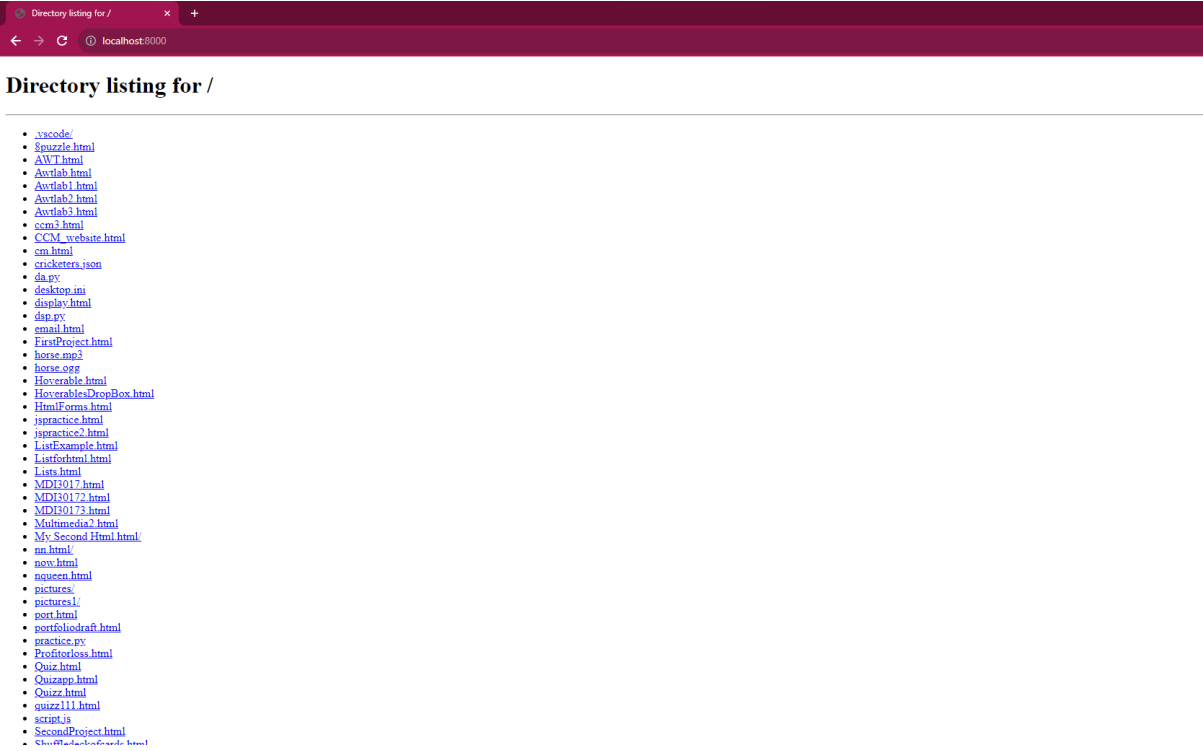
C:\Users\P00JA SHREE>cd Desktop

C:\Users\P00JA SHREE\Desktop>cs My First html project
'cs' is not recognized as an internal or external command,
operable program or batch file.

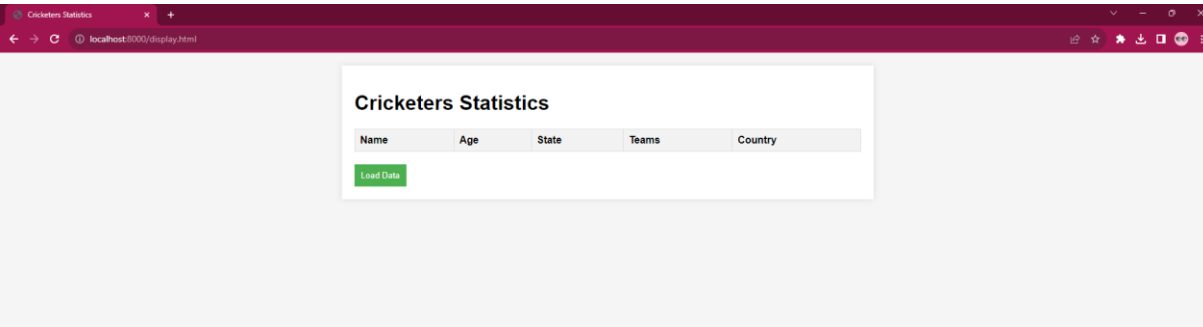
C:\Users\P00JA SHREE\Desktop>cd My First html project

C:\Users\P00JA SHREE\Desktop\My First html project>python -m http.server
Serving HTTP on :: port 8000 (http://[::]:8000/) ...
|
```

Using localhost:



Output Page:

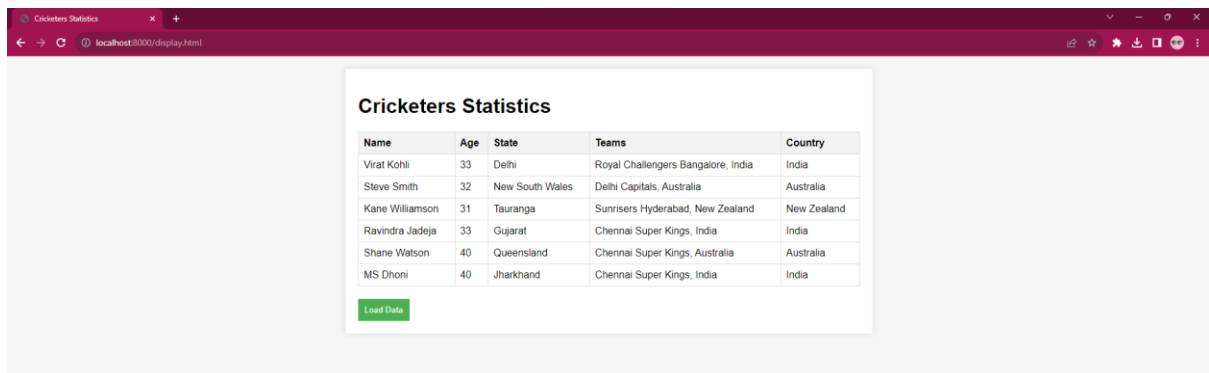


After selecting the load data button:

Cricketers Statistics

Name	Age	State	Teams	Country
Virat Kohli	33	Delhi	Royal Challengers Bangalore, India	India
Steve Smith	32	New South Wales	Delhi Capitals, Australia	Australia
Kane Williamson	31	Tauranga	Sunrisers Hyderabad, New Zealand	New Zealand
Ravindra Jadeja	33	Gujarat	Chennai Super Kings, India	India
Shane Watson	40	Queensland	Chennai Super Kings, Australia	Australia
MS Dhoni	40	Jharkhand	Chennai Super Kings, India	India

Load Data



Actions in terminal:

```
C:\WINDOWS\system32\cmd. X + v
Microsoft Windows [Version 10.0.22621.2506]
(c) Microsoft Corporation. All rights reserved.

C:\Users\P00JA SHREE>cd Desktop

C:\Users\P00JA SHREE\Desktop>cs My First html project
'cs' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\P00JA SHREE\Desktop>cd My First html project

C:\Users\P00JA SHREE\Desktop\My First html project>python -m http.server
Serving HTTP on :: port 8000 (http://[::]:8000/) ...
::1 - - [12/Nov/2023 23:16:21] "GET /display.html HTTP/1.1" 304 -
::1 - - [12/Nov/2023 23:16:21] code 404, message File not found
::1 - - [12/Nov/2023 23:16:21] "GET /style.css HTTP/1.1" 404 -
::1 - - [12/Nov/2023 23:16:21] "GET /script.js HTTP/1.1" 200 -
::1 - - [12/Nov/2023 23:16:21] code 404, message File not found
::1 - - [12/Nov/2023 23:16:21] "GET /favicon.ico HTTP/1.1" 404 -
::1 - - [12/Nov/2023 23:16:37] "GET / HTTP/1.1" 200 -
::1 - - [12/Nov/2023 23:16:38] code 404, message File not found
::1 - - [12/Nov/2023 23:16:38] "GET /favicon.ico HTTP/1.1" 404 -
::1 - - [12/Nov/2023 23:17:20] "GET /display.html HTTP/1.1" 200 -
::1 - - [12/Nov/2023 23:17:20] code 404, message File not found
::1 - - [12/Nov/2023 23:17:20] "GET /style.css HTTP/1.1" 404 -
::1 - - [12/Nov/2023 23:17:20] "GET /script.js HTTP/1.1" 200 -
::1 - - [12/Nov/2023 23:17:36] "GET /cricketers.json HTTP/1.1" 200 -
```

Code:

For the html file:(display.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Cricketers Statistics</title>
  <link rel="stylesheet" href="style.css">
</head>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f5f5f5;
  }

  .container {
    max-width: 800px;
    margin: 20px auto;
```

```
background-color: #fff;
padding: 20px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
table {
  border-collapse: collapse;
  width: 100%;
  margin: 20px 0;
}
```

```
th, td {
  border: 1px solid #ddd;
  padding: 8px;
  text-align: left;
}
```

```
th {
  background-color: #f2f2f2;
}
```

```
button {
  padding: 10px;
  background-color: #4CAF50;
  color: #fff;
  border: none;
  cursor: pointer;
}
```

```
button:hover {
  background-color: #45a049;
}
```

```
</style>
<body>
  <div class="container">
    <h1>Cricketers Statistics</h1>

    <table>
      <thead>
        <tr>
          <th>Name</th>
          <th>Age</th>
          <th>State</th>
          <th>Teams</th>
          <th>Country</th>
        </tr>
```

```

        </thead>
        <tbody id="playersTableBody"></tbody>
    </table>

    <button id="loadDataBtn">Load Data</button>
</div>

<script src="script.js"></script>
</body>
</html>

```

For the Javascript file:(script.js)

```

document.getElementById('loadDataBtn').addEventListener('click', loadData);

function loadData() {
    var xhr = new XMLHttpRequest();

    xhr.open('GET', 'cricketers.json', true);

    xhr.onreadystatechange = function () {
        if (xhr.readyState === 4 && xhr.status === 200) {
            var data = JSON.parse(xhr.responseText);
            updateDOM(data.players);
        }
    };

    xhr.send();
}

function updateDOM(players) {
    var playersTableBody = document.getElementById('playersTableBody');
    playersTableBody.innerHTML = '';

    players.forEach(function(player) {
        var row = document.createElement('tr');

        ['name', 'age', 'state', 'teams', 'country'].forEach(function(prop) {
            var cell = document.createElement('td');
            cell.textContent = Array.isArray(player[prop]) ? player[prop].join(', ')
: player[prop];
            row.appendChild(cell);
        });

        playersTableBody.appendChild(row);
    });
}

```

```
}
```

For the JSON file:(cricketers.json)

```
{
  "players": [
    {
      "name": "Virat Kohli",
      "age": 33,
      "state": "Delhi",
      "teams": ["Royal Challengers Bangalore", "India"],
      "country": "India"
    },
    {
      "name": "Steve Smith",
      "age": 32,
      "state": "New South Wales",
      "teams": ["Delhi Capitals", "Australia"],
      "country": "Australia"
    },
    {
      "name": "Kane Williamson",
      "age": 31,
      "state": "Tauranga",
      "teams": ["Sunrisers Hyderabad", "New Zealand"],
      "country": "New Zealand"
    },
    {
      "name": "Ravindra Jadeja",
      "age": 33,
      "state": "Gujarat",
      "teams": ["Chennai Super Kings", "India"],
      "country": "India"
    },
    {
      "name": "Shane Watson",
      "age": 40,
      "state": "Queensland",
      "teams": ["Chennai Super Kings", "Australia"],
      "country": "Australia"
    },
    {
      "name": "MS Dhoni",
      "age": 40,
```

```
    "state": "Jharkhand",  
    "teams": ["Chennai Super Kings", "India"],  
    "country": "India"  
  }  
]  
}
```