



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Fall Semester 2023-24

MDI3001 – Advances in Web Technologies

Lab Digital Assessment

Ajax and JSON

NAME : Aravind S
REG. NO. : 21MID0229
SLOT : C1+TC1 / L45+L46
DATE : 12.11.2023
FACULTY : Mukku Nisanth Kartheek
CLASS NO. : VL2023240104226

Task:

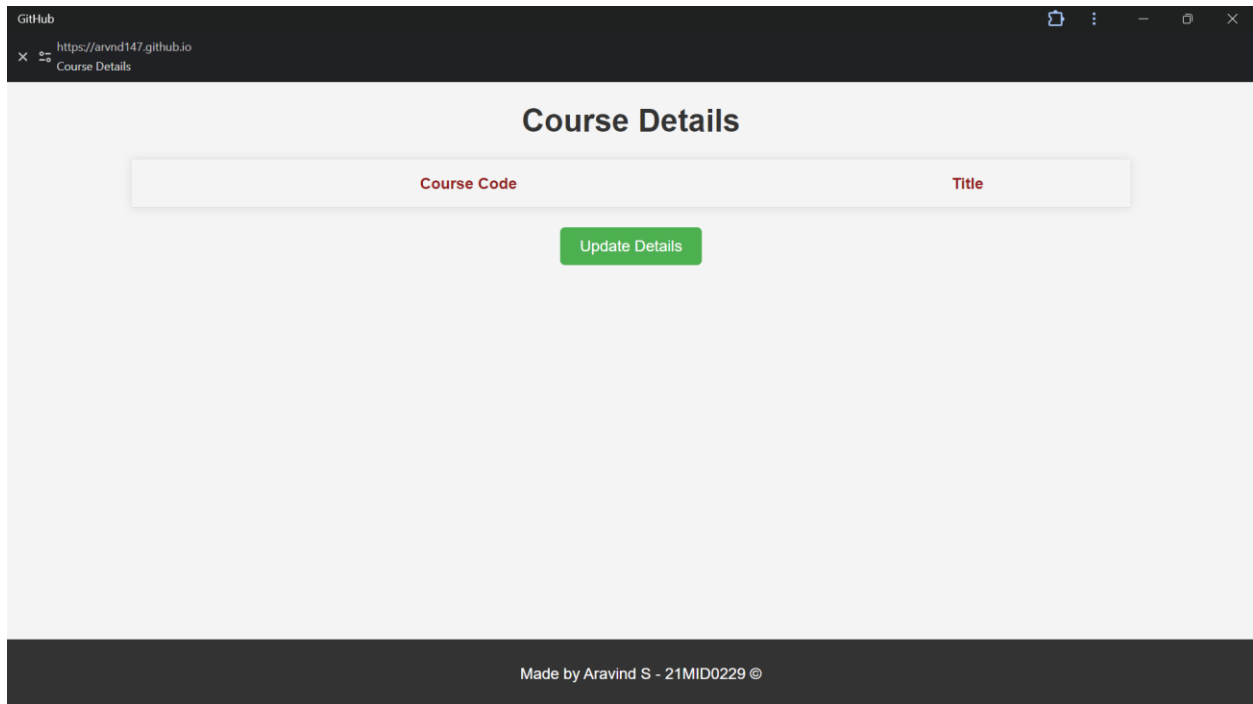
Asynchronously loading JSON data.

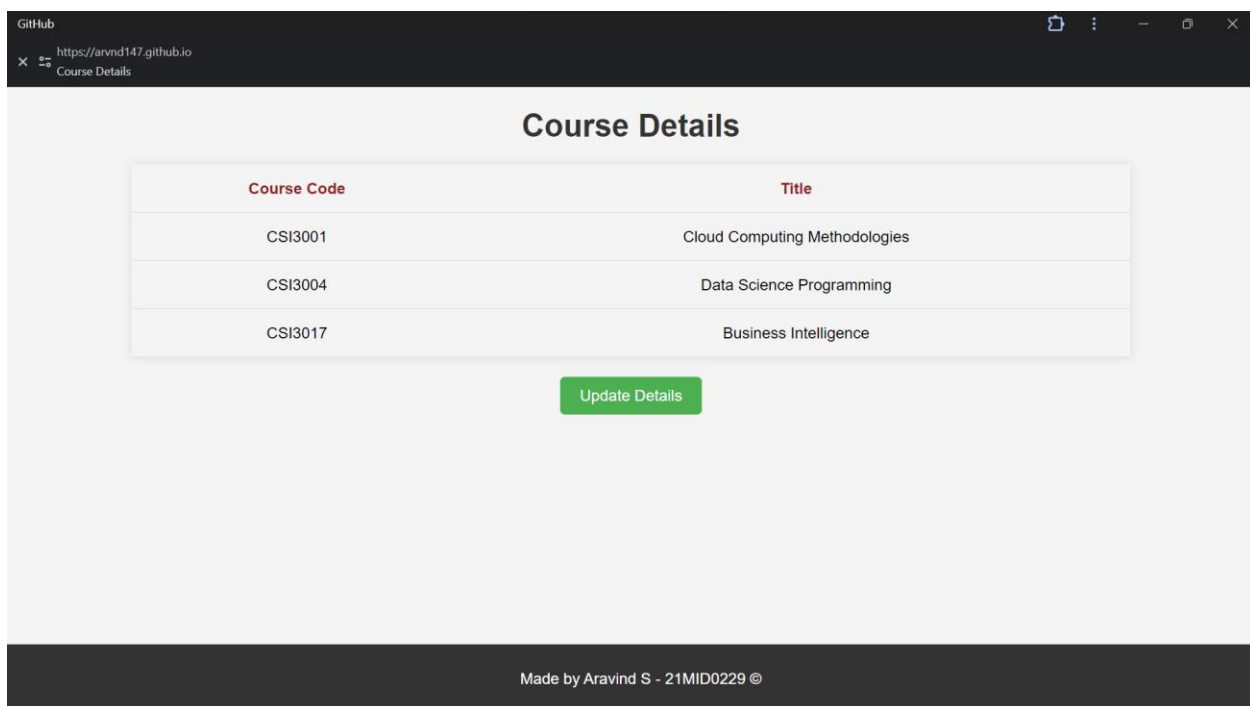
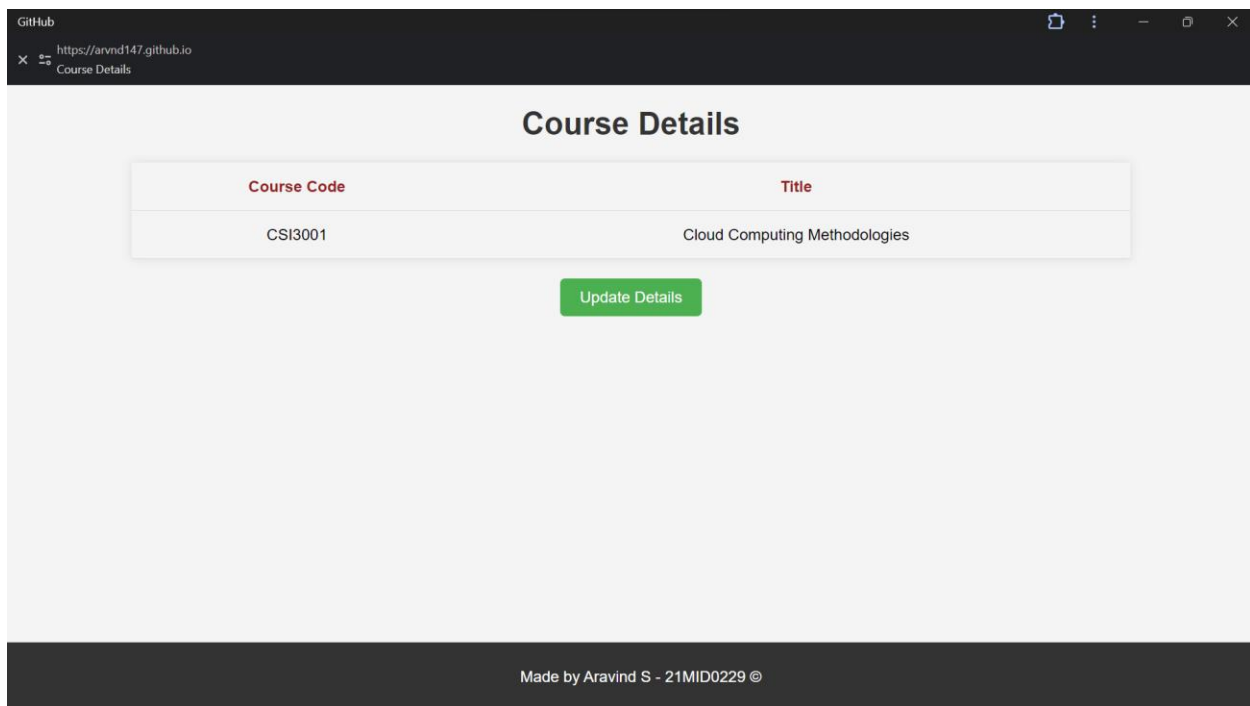
Deployment Link:

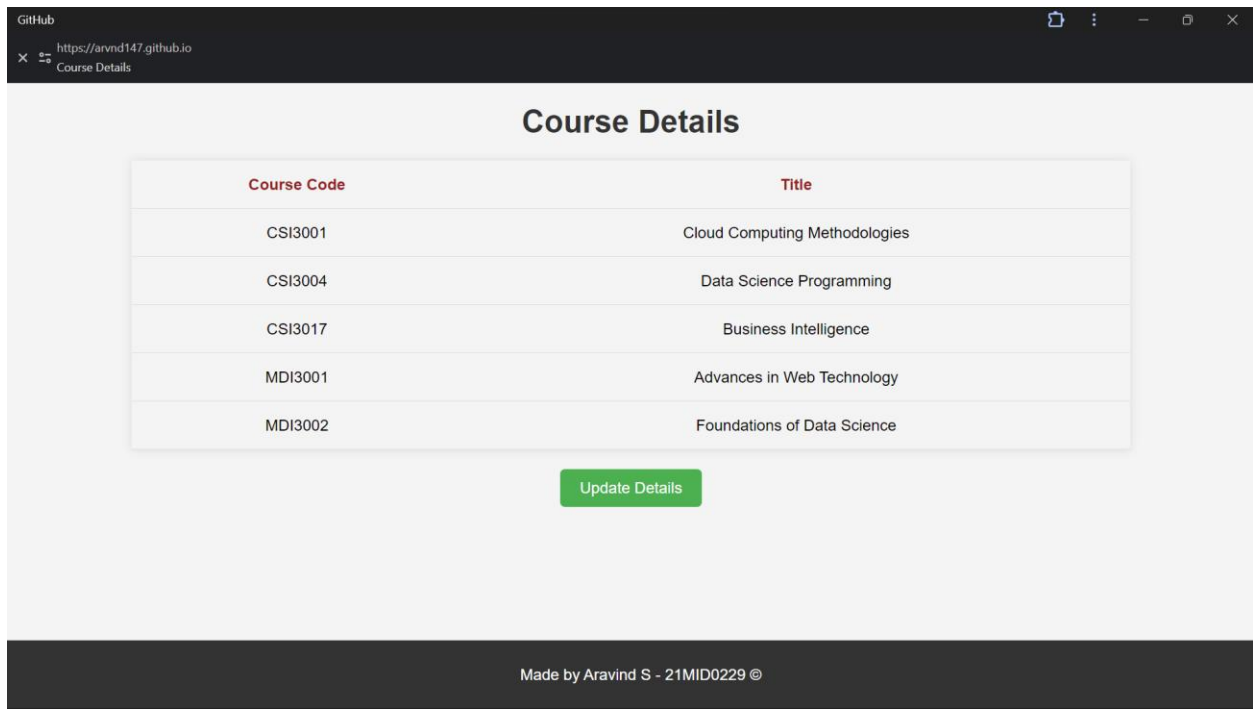
<https://arvnd147.github.io/Ajax-and-JSON/>

(Deployed in GitHub Pages)

Screenshots of the webpage:







HTML code: (index.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Course Details</title>
  <script src="script.js"></script>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <h1>Course Details</h1>
  <table class="src">
    <tr>
      <th id="code">Course Code</th>
      <th id="title">Title</th>
    </tr>
    <tbody id="courseDetails"></tbody>
  </table>
  <div class="central">
    <button type="button" onclick="loadJSON()">Update Details</button>
  </div>
  <footer>
    <p>Made by Aravind S - 21MID0229 &copy;</p>
  </footer>
</body>
</html>
```

CSS code: (styles.css)

```
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
}

footer {
  background-color: #333;
  color: white;
  text-align: center;
  padding: 10px;
  position: fixed;
  bottom: 0;
  width: 100%;
}

h1 {
  color: #333;
  text-align: center;
}

table {
  width: 80%;
  margin: 20px auto;
  border-collapse: collapse;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

th,
td {
  padding: 15px;
  text-align: center;
  border-bottom: 1px solid #ddd;
}

tr:hover {
  background-color: #f5f5f5;
}

.central {
  text-align: center;
  margin-top: 20px;
}
```

```

button {
    padding: 10px 20px;
    font-size: 16px;
    cursor: pointer;
    background-color: #4caf50;
    color: white;
    border: none;
    border-radius: 5px;
}

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

#code,
#title {
    font-weight: bold;
    color: #942121;
}

/* Media Query for responsiveness */
@media (max-width: 600px) {
    table {
        width: 100%;
    }
}

```

JavaScript: (script.js)

```

var currentIndex = 0;

function loadJSON() {
    var data_file = "./data.json";
    var xhr = new XMLHttpRequest();

    // Define the AJAX request
    xhr.open("GET", data_file, true);

    // Set the callback function to handle the response
    xhr.onreadystatechange = function () {
        if (xhr.readyState == 4) {
            // Javascript function JSON.parse to parse JSON data
            var courses = JSON.parse(xhr.responseText);

            // player variable now contains the data structure and can
            // be accessed as player.name and player.country.

```

```

// Get the tbody element to append the rows
var tbody = document.getElementById("courseDetails");

// Loop through the players and dynamically generate rows
if (currentIndex < courses.length) {
    var player = courses[currentIndex];

    var row = tbody.insertRow();
    var cellCode = row.insertCell(0);
    var cellTitle = row.insertCell(1);

    cellCode.textContent = player.code;
    cellTitle.textContent = player.title;

    currentIndex++;
}else{
    tbody.innerHTML = "";
    currentIndex = 0;
}
}
};
//send the request
xhr.send();
}

```

JSON: (data.json)

```

[
  {"code": "CSI3001", "title": "Cloud Computing Methodologies"},
  {"code": "CSI3004", "title": "Data Science Programming"},
  {"code": "CSI3017", "title": "Business Intelligence"},
  {"code": "MDI3001", "title": "Advances in Web Technology"},
  {"code": "MDI3002", "title": "Foundations of Data Science"}
]

```