

A5 – AJAX PROGRAMMING

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Index.html Code:

```
<!DOCTYPE html>
<html>

<head>
  <title>AJAX Assignment</title>
  <link rel="stylesheet" href="styles.css">
</head>

<body>

  <h1>Retrieve Bank Records</h1>

  <div align="center">
    <button type="button" onclick="loadDocument()">Get
    Branch Details</button>
    <br><br>
    <table id="content"></table>
    <br><br>
    <div id="details"></div>
  </div>

<script>
loadDocument = () => {
  let xhttp = new XMLHttpRequest(); //to interact with server
  without reloading page
  xhttp.onreadystatechange = function () { //the
  XMLHttpRequest's readyState changes
    if(this.readyState == 4 && this.status == 200){
      //readyState = 4 => Done, status = 200 => HTTP
      OK
      loadButtons(this);
    }
  };

  xhttp.open("GET", "bank.xml", true); //to initialize a get request
  to this document, true => async call
  xhttp.send(); //fire the get request to fetch the document
```

```
}
```

```
loadButtons = (xml) => {  
    let i = 0;  
    let xmlDoc = xml.responseXML; //read only document  
    retrieved by the request  
    let x = xmlDoc.getElementsByTagName("record"); //DOM  
    Method that returns all elements with the specified tag  
    let table = "<tr><th>Branch</th></tr>";  
  
    for (i = 0; i < x.length; i++) {  
        table += `<tr><td><button type="button"  
            onclick="loadBranchDetails(${i})">`;   
        table += x[i].getElementsByTagName("branch")  
            [0].childNodes[0].nodeValue + "</button></td></tr>";  
    } //childNodes[0] is the textNode of the childNode here,  
    nodeValue gets the value of the textNode  
  
    document.getElementById("content").innerHTML = table;  
}
```

```
loadBranchDetails = (index) => {  
    let xhttp = new XMLHttpRequest();  
    xhttp.onreadystatechange = function () {  
        if(this.readyState == 4 && this.status == 200){  
            displayBranchDetails(this, index);  
        }  
    };  
  
    xhttp.open("GET", "bank.xml", true);  
    xhttp.send();  
}
```

```
displayBranchDetails = (xml, i) => {  
    let xmlDoc = xml.responseXML;  
    let x = xmlDoc.getElementsByTagName("record");  
    let branchDetails = `State: $  
    {x[i].getElementsByTagName("state")  
    [0].childNodes[0].nodeValue}`;  
    branchDetails += `<br>District: $  
    {x[i].getElementsByTagName("district")  
    [0].childNodes[0].nodeValue}`;
```

```
branchDetails += `<br>Address: $
{x[i].getElementsByTagName("address")
[0].childNodes[0].nodeValue}`;
    branchDetails += `<br>Branch: $
    {x[i].getElementsByTagName("branch")
[0].childNodes[0].nodeValue}`;
branchDetails += `<br>IFSC: $
{x[i].getElementsByTagName("ifsc")
[0].childNodes[0].nodeValue}`;
branchDetails += `<br>MICR: $
{x[i].getElementsByTagName("micr")
[0].childNodes[0].nodeValue}`;
branchDetails += `<br>Bank Code: $
{x[i].getElementsByTagName("code")
[0].childNodes[0].nodeValue}`;

document.getElementById("details").innerHTML =
branchDetails;
}
</script>

</body>

</html>
```

Bank.xml Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<details>

  <record>
    <state>Tamil Nadu</state>
    <district>Chennai</district>
    <address>34, ABCD Street</address>
    <branch>Kalavakkam</branch>
    <ifsc>BANK1029345</ifsc>
    <micr>00003348500</micr>
    <code>BANKCD00001</code>
  </record>

  <record>
    <state>Kerala</state>
    <district>Thiruvananthapuram</district>
    <address>56, EFGH Street</address>
    <branch>Thillai Ganga Nagar</branch>
    <ifsc>BANK1029456</ifsc>
    <micr>00002230459</micr>
    <code>BANKCD00002</code>
  </record>

  <record>
    <state>Rajasthan</state>
    <district>Jodhpur</district>
    <address>78, IJKL Street</address>
    <branch>Motabhai Estate</branch>
    <ifsc>BANK1093847</ifsc>
    <micr>00002387411</micr>
    <code>BANKCD00003</code>
  </record>

</details>
```

Styles.css Code:

```
body {  
    background-color: cornsilk;  
    font-size: 150%;  
}  
  
h1 {  
    text-align: center;  
}  
  
table,  
tr {  
    border: 2px solid slateblue;  
    border-collapse: collapse;  
    text-align: center;  
    font-size: 125%;  
}  
  
button {  
    margin: 5px;  
    font-size: 125%;  
}  
  
tr button {  
    font-size: 75%;  
}  
  
#details{  
    width: 50%;  
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
    font-size: 150%;  
    text-align: left;  
    border: 2px solid brown;  
}
```

Output:

Retrieve Bank Records

Get Branch Details

Branch

Kalavakkam

Thillai Ganga Nagar

Motabhai Estate

Retrieve Bank Records

Get Branch Details

Branch

Kalavakkam

Thillai Ganga Nagar

Motabhai Estate

State: Kerala

District: Thiruvananthapuram

Address: 56, EFGH Street

Branch: Thillai Ganga Nagar

IFSC: BANK1029456

MICR: 00002230459

Bank Code: BANKCD00002