A6 – AJAX PROGRAMMING

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Index.html Code:

```html
<!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
```

```javascript
}

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}`;
```

```javascript
      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
<?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:

```css
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