AJAX CRUD

->Ajax no simple use HTTP Request karva mate j thai chhe but during that request page reload nahi thai.
-> '$.ajax' keyword defines that Ajax Http request is start.
-> In Ajax request there are many parameters like below:
       url: Define where the request will go on the server to get the data
       method: specify method that which method will hit
       success:
       Error:

#Step 1:

```
$(document).ready(function () {
    loadCountries();
 });
```

Document Ready thai jai etle loadCountries name ni method call thase

#Step 2

```
function loadCountries() {
     $.ajax({
        url: '/Countries/GetAll',
        method: 'GET',
        success: function (data) {
           const tableBody = $('#countriesTable tbody');
           tableBody.empty();
           data.forEach(country => {
             tableBody.append(`
               <tr>
                 <td>${country.countryID}</td>
                 <td>${country.countryName}</td>
                 <td>${country.countryCode}</td>
                 <td>${new Date(country.createdDate).toLocaleDateString()}</td>
                 <td>
                    <button class="btn btn-warning btn-sm"
onclick="editCountry(${country.countryID}, '${country.countryName}',
'${country.countryCode}')">
```

```
                    <i class="fas fa-edit"></i> Edit
                </button>
                <button class="btn btn-danger btn-sm"
onclick="deleteCountry(${country.countryID})">
                    <i class="fas fa-trash"></i> Delete
                </button>
            </td>
        </tr>
    `);
});
    },
    error: function (error) {
        console.error("Error loading countries:", error);
        alert("Failed to load countries. Please try again.");
    }
});
}
```

-> CountriesCountroller ni GetAll name ni method call thase
-> loadCountries() name na function thi badhi country get thase je database ma actually store chhe
-> const tableBody = $('#countriesTable tbody'); no meaning em thai chhe ke countriesTable id vada table na tbody element ne target kre chhe tableBody name na variable thi
-> After that data get thyo chhe te 'data' name na variable ma store thai chhe and after that foreach loop ni help thi badho data countriesTable id vada table na tbody element ma append thase
-> 'Edit' button na onclick thi 'function editCountry(id, name, code)' call thase
-> 'Delete' button na onclick thi 'function deleteCountry(id)' call thase

#Step 3:

```
function editCountry(id, name, code) {
    $('#countryId').val(id);
    $('#countryName').val(name);
    $('#countryCode').val(code);
}
```

-> A function no simple use e chhe ke edit button upar click kariye etle te country no data form ma fill thai javo joie

-> $('#countryName').val(name); a line no meaning em thai chhe ke je input field nu id 'countryName' hoi te input ni 'value' ma 'name' parameter ni value set kri dyo

#Step 4:

```
function deleteCountry(id) {
    if (confirm("Are you sure you want to delete this country?")) {
        $.ajax({
            url: `/Countries/Delete?id=${id}`,
            method: 'DELETE',
            success: function () {
                alert("Country deleted successfully!");
                loadCountries();
            },
            error: function (error) {
                console.error("Error deleting country:", error);
                alert("Failed to delete country. Please try again.");
            }
        });
    }
}
```

-> A function ni help thi Ajax ni delete request apply thai chhe jema 'CountriesController' ni 'Delete' name ni method call thai chhe and particular country delete thai chhe

#Step 5:

```
$('#countryForm').submit(function (e) {
    e.preventDefault();

    const id = $('#countryId').val();
    const name = $('#countryName').val();
    const code = $('#countryCode').val();

    const url = id ? `/Countries/Update/${id}` : '/Countries/Create';
    const method = id ? 'PUT' : 'POST';

    const data = id
        ? JSON.stringify({ countryID: id, countryName: name, countryCode: code })
        : JSON.stringify({ countryName: name, countryCode: code });
```

```
        $.ajax({
            url: url,
            method: method,
            contentType: 'application/json',
            data: data,
            success: function (response) {
                alert(response.message);
                $('#countryForm')[0].reset();
                $('#countryId').val('');
                loadCountries();
            },
            error: function (xhr) {
                console.error("Error performing operation:", xhr.responseText);
                alert("Failed to save country. Please try again.");
            }
        });
    });
```

-> '$('#countryForm').submit' A line no meaning em thase ke je form nu id 'countryForm' te form submit thai tyare particular tema rahelu function call thase
-> const id = $('#countryId').val();
   const name = $('#countryName').val();
   const code = $('#countryCode').val();
   Uprni 3 lines no meaning m thase ke 'countryName' id vada input filed ni value 'name' name na variable ma stroe thai chhe corresponding bakini 2 lines no same meaning

-> After that id pass thyu chhe ke nai te check krine decide thase ke POST method thase ke PUT?
-> Te decide thai jai teni help thi pachhi Ajax ni Request thase and POST or PUT method call thase etle New coutnry add thase or Old country edit thase

-> $('#countryForm')[0].reset();
   $('#countryId').val('');
   Meaning of above both lines => POST or PUT methods comoplete thai jai etle form ne empty krvu