

Assignment : Bootstrap + CRUD + EXPRESS + MySql

AIM : Task: Create html form using bootstrap with following information

1. Course-id, Course Name [text box]
2. Department Name [Radio Button]
3. Institute Name [Check Box]
4. University Name [Drop Down]

Display all Record into dynamic table with edit and delete operation.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="stylesheet.css">
  <!-- Latest compiled and minified CSS -->
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">
  <!-- jQuery library -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

  <!-- Latest compiled JavaScript -->
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

  <title>CRUD Operation using ExpressJS and Mysql</title>
</head>
<body>

  <main>
    <form action="index.html" method="POST">
      <h1 style="text-align: center;"> CRUD Operation Using ExpressJS and Mysql </h1>
      <div class="container">
        <div class="mb-3 row">
          <div class="col-sm-3">
            <label for="id-input" class="form-label">Student ID:</label>
```

```
        </div>
        <div class="col-sm-9">
            <input type="text" id="id-input" name="id-
input" class="form-control">
        </div>
    </div>

    <div class="mb-3 row">
        <div class="col-sm-3">
            <label for="name-input">Student Name:</label>
        </div>
        <div class="col-sm-9">
            <input type="text" id="name-input" name="name-
input" class="form-control">
        </div>
    </div>
    <div class="mb-3 row">
        <div class="col-sm-3">
            <label for="course-id-input">Course ID:</label>
        </div>
        <div class="col-sm-9">
            <input type="text" id="course-id-input" name="course-
id-input" class="form-control">
        </div>
    </div>
    <div class="mb-3 row">
        <div class="col-sm-3">
            <label for="course-name-input">Course Name:</label>
        </div>
        <div class="col-sm-9">
            <input type="text" id="course-name-
input" name="course-name-input" class="form-control">
        </div>
    </div>
    <div class="mb-3 row">
        <div class="col-sm-3">
            <label class="add-dept">Department Name :</label>
        </div>
        <div class="col-sm-9">
            <input class="add-dept-input" type="radio" name="add-
dept" id="ce" value="1">
            <label for="ce">CE</label>

            <input class="add-dept-input" type="radio" name="add-
dept" id="it" value="2">
            <label for="it">IT</label>
        </div>
    </div>
```

```

        <input class="add-dept-input" type="radio" name="add-
dept" id="ee" value="3">
        <label for="ee">EE</label>

        <input class="add-dept-input" type="radio" name="add-
dept" id="me" value="4">
        <label for="me">ME</label>

        <input class="add-dept-input" type="radio" name="add-
dept" id="civil" value="5">
        <label for="civil">Civil</label>
    </div>
</div>
<div class="mb-3 row">
    <div class="col-sm-3">
        <label>Institute Name : </label>
    </div>
    <div class="col-sm-9">
        <input class="add-institute-
input" type="checkbox" name="cspit" id="institute-name-input" value="1">
        <label for="cspit">CSPIT</label>
        <input class="add-institute-
input" type="checkbox" name="depstar" id="institute-name-input" value="2">
        <label for="depstar">DEPSTAR</label>
        <input class="add-institute-
input" type="checkbox" name="pdpias" id="institute-name-input" value="3">
        <label for="pdpias">PDPIAS</label>
        <input class="add-institute-
input" type="checkbox" name="rpcp" id="institute-name-input" value="4">
        <label for="rpcp">RPCP</label>
        <input class="add-institute-
input" type="checkbox" name="cmpica" id="institute-name-input" value="5">
        <label for="cmpica">CMPICA</label>
        <input class="add-institute-
input" type="checkbox" name="i2im" id="institute-name-input" value="6">
        <label for="i2im">I2IM</label>
    </div>
</div>

    <div class="mb-3 row">
        <div class="col-sm-3">
            <label>University Name : </label>
        </div>
        <div class="col-sm-9">
            <select class="form-select" aria-labelledby="add-
univname-input">
                <option value="">Select</option>

```

```

        <option class="dropdown-
item" value="1">CHARUSAT</option>
        <option class="dropdown-
item" value="2">AHDU</option>
        <option class="dropdown-
item" value="3">DDU</option>
        <option class="dropdown-
item" value="4">BVM</option>
        <option class="dropdown-
item" value="5">GCET</option>
        <option class="dropdown-
item" value="6">NIRMA UNIVERSITY</option>
    </select>
</div>
</div>

</div>
<br>
<br>
<div class="addBtn">
    <button class="btn btn-success" id="add-details-
btn">Add Details</button>
</div>
</div>
</form>
<hr style="height: 5px;"/>
<div class="row mb-3">
    <div class="col-sm-3">
        <input placeholder="Search by name" id="search-
input" class="form-control">
    </div>
    <div class="col-sm-3">
        <button id="search-btn" class="btn btn-
secondary">Search by Student Name</button>
    </div>
</div>

<table id="table" class="table table-striped">
    <thead>
        <th scope="col">Student ID</th>
        <th scope="col">Student Name</th>
        <th scope="col">Course ID</th>
        <th scope="col">Course Name</th>
        <th scope="col">Department Name</th>
        <th scope="col">Institute Name</th>
        <th scope="col">University Name</th>
        <th scope="col">Date Added</th>
        <th scope="col">Delete</th>
    </thead>

```

```

        <th scope="col">Edit</th>
    </thead>
    <tbody id="tbody">
    </tbody>
</table>

<section hidden id="update-row">
    <label>Enter Name:</label>
    <input type="text" id="update-name-input">
    <button id="update-row-btn">Update</button>
    <label>Enter ID:</label>
    <input type="text" id="update-id-input">
    <button id="update-row-btn">Update</button>
    <label>Enter Course Nane:</label>
    <input type="text" id="update-course-name-input">
    <button id="update-row-btn">Update</button>
    <label>Enter Course ID :</label>
    <input type="text" id="update-course-id-input">
    <button id="update-row-btn">Update</button>
</section>

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

```

Index.js

```

document.addEventListener('DOMContentLoaded', function () {
    fetch('http://localhost:5000/getAll')
    .then(response => response.json())
    .then(data => loadHTMLTable(data['data']));
});

document.querySelector('table tbody').addEventListener('click', function(event) {
    if (event.target.className === "delete-row-btn") {
        deleteRowById(event.target.dataset.id);
    }
    if (event.target.className === "edit-row-btn") {
        handleEditRow(event.target.dataset.id);
    }
});

```

```
const updateBtn = document.querySelector('#update-row-btn');
const searchBtn = document.querySelector('#search-btn');

searchBtn.onclick = function() {
    const searchValue = document.querySelector('#search-input').value;

    fetch('http://localhost:5000/search/' + searchValue)
        .then(response => response.json())
        .then(data => loadHTMLTable(data['data']));
}

function deleteRowById(id) {
    fetch('http://localhost:5000/delete/' + id, {
        method: 'DELETE'
    })
        .then(response => response.json())
        .then(data => {
            if (data.success) {
                location.reload();
            }
        });
}

function handleEditRow(id) {
    const updateSection = document.querySelector('#update-row');
    updateSection.hidden = false;
    document.querySelector('#update-name-input').dataset.id = id;
}

updateBtn.onclick = function() {
    const updateNameInput = document.querySelector('#update-name-input');

    console.log(updateNameInput);

    fetch('http://localhost:5000/update', {
        method: 'PATCH',
        headers: {
            'Content-type' : 'application/json'
        },
        body: JSON.stringify({
            id: updateNameInput.dataset.id,
            name: updateNameInput.value
        })
    })
        .then(response => response.json())
        .then(data => {
            if (data.success) {
                location.reload();
            }
        });
}
```

```
    }  
  })  
}  
  
const addBtn = document.querySelector('#add-name-btn');  
  
addBtn.onclick = function () {  
  const nameInput = document.querySelector('#name-input');  
  const name = nameInput.value;  
  nameInput.value = "";  
  
  fetch('http://localhost:5000/insert', {  
    headers: {  
      'Content-type': 'application/json'  
    },  
    method: 'POST',  
    body: JSON.stringify({ name : name})  
  })  
  .then(response => response.json())  
  .then(data => insertRowIntoTable(data['data']));  
}  
  
function insertRowIntoTable(data) {  
  console.log(data);  
  const table = document.querySelector('table tbody');  
  const isTableData = table.querySelector('.no-data');  
  
  let tableHtml = "<tr>";  
  
  for (var key in data) {  
    if (data.hasOwnProperty(key)) {  
      if (key === 'dateAdded') {  
        data[key] = new Date(data[key]).toLocaleString('en-US', { timeZone: 'UTC' }); // ko-KR toLocaleString('en-GB', { timeZone: 'UTC' })  
      }  
      tableHtml += `<td>${data[key]}</td>`;   
    }  
  }  
  
  tableHtml += `<td><button class="delete-row-btn" data-id=${data.id}>Delete</td>`;   
  tableHtml += `<td><button class="edit-row-btn" data-id=${data.id}>Edit</td>`;   
  
  tableHtml += "</tr>";  
  
  if (isTableData) {
```

```
        table.innerHTML = tableHtml;
    } else {
        const newRow = table.insertRow();
        newRow.innerHTML = tableHtml;
    }
}

function loadHTMLTable(data) {
    const table = document.querySelector('table tbody');

    if (data.length === 0) {
        table.innerHTML = "<tr><td class='no-data' colspan='5'>No Data</td></tr>";
        return;
    }

    let tableHtml = "";

    data.forEach(function ({id, name, date_added}) {
        tableHtml += "<tr>";
        tableHtml += `<td>${id}</td>`;
        tableHtml += `<td>${name}</td>`;
        tableHtml += `<td>${new Date(date_added).toLocaleString()}</td>`;
        tableHtml += `<td><button class="btn btn-danger" data-id=${id}>Delete</td>`;
        tableHtml += `<td><button class="btn btn-info" data-id=${id}>Edit</td>`;
        tableHtml += "</tr>";
    });

    table.innerHTML = tableHtml;
}
```

Stylesheet.css

```
main {
    width: 60%;
    margin: 50px auto;
}

.container {
    margin-top: 30px;
}

.addBtn {
    text-align: center;
}
```


Output

CRUD Operation Using ExpressJS and Mysql

Student ID:

Student Name:

Course ID:

Course Name:

Department Name :

☐ CE ☐ IT ☐ EE ☐ ME ☐ Civil

Institute Name :

☐ CSPIT ☐ DEPSTAR ☐ PDPIAS ☐ RPCP ☐ CMPICA ☐ I2IM

University Name :

Select ▼

Add Details

Search by name

Search by Student Name

Student ID	Student Name	Course ID	Course Name	Department Name	Institute Name	University Name	Date Added	Delete	Edit
------------	--------------	-----------	-------------	-----------------	----------------	-----------------	------------	--------	------