# **Task - CRUD operation on MYSQL**

#### Code:

```
User_index.ejs
<!DOCTYPE html>
<html lang="en">
<head>
<style>
 .feed {
  min-height: 80vh;
 }
</style>
 <title>CRUD Operations</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></s
cript>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script</pre>
</head>
<body>
 <section id="title-bar">
  <div class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid px-5 py-1">
    <a class="navbar-brand" href="#">CRUD Operation</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarScroll" aria-expanded="false">
```

```
<span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarScroll">
   class="nav-item">
    <a href="#" class="nav-link active">Home</a>
    class="nav-item">
    <a href="#" class="nav-link">University</a>
    </div>
  </div>
 </div>
</section>
<div class="container mt-2 feed">
<a href="/add" class="btn btn-sm btn-primary">Add User</a><br/>
<thead>
  Course id
  Course name
  department name
  institute name
  university name
```

```
</thead>
 <% users.forEach(function(university){ %>
    <%= university.cid %>
      <%= university.cname %>
      <%= university.dname %>
      <%= university.iname %>
      <%= university.uname %>
      <a href="edit/<%= university.id %>" class="btn btn-sm btn-
primary">Edit</a>
       <a href="delete/<%= university.id %>" class="btn btn-sm btn-
danger">Delete</a>
      <% }); %>
 </div>
<!-- footer Section -->
<footer class="bg-dark navbar-static-bottom">
<div class="contanier-fluid text-center p-4 pb-1">
 © Copyright 2021
</div>
</footer>
</body>
</html>
```

#### User\_edit.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
 <style>
 .feed {
  min-height: 80vh;
 }
</style>
 <title>CRUD Operations</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></s
cript>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script
</head>
<body>
<section id="title-bar">
 <div class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid px-5 py-1">
    <a class="navbar-brand" href="#">CRUD Operation</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarScroll" aria-expanded="false">
    <span class="navbar-toggler-icon"></span>
    </button>
```

```
<div class="collapse navbar-collapse" id="navbarScroll">
    ul class="navbar-nav mx-3 me-auto">
     class="nav-item">
      <a href="#" class="nav-link active">Home</a>
     class="nav-item">
      <a href="#" class="nav-link">University</a>
     </div>
  </div>
 </div>
 </section>
<div class="container mt-2 feed">
 <form action="/update" method="post">
  <input type="hidden" value="<%= user.id %>" name="id">
  <div class="form-group">
  <label for="cid">Course ID</label>
  <input type="text" class="form-control" id="cid" placeholder="Enter Course ID"</pre>
value="<%= user.cid %>" name="cid" required>
 </div>
 <div class="form-group">
  <label for="cname">Course name:</label>
  <input type="text" class="form-control" id="cname" placeholder="Enter Course id"</pre>
value="<%= user.cname %>" name="cname" required>
 </div>
```

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**5** | Page

```
<div class="form-group">
  <label for="dname">department name:</label>
  <input type="text" class="form-control" id="dname" placeholder="Enter Course
name" value="<%= user.dname %>" name="dname" required>
 </div>
 <div class="form-group">
  <label for="iname">Institute name:</label>
  <input type="text" class="form-control" id="iname" placeholder="Enter department
name" value="<%= user.iname %>" name="iname" required>
 </div>
  <div class="form-group">
  <label for="uname">University name:</label>
  <input type="text" class="form-control" id="uname" placeholder="Enter University</pre>
name" value="<%= user.uname %>" name="uname" required>
 </div>
 <button type="submit" class="btn btn-primary">Submit</button>
 </form>
</div>
<!-- footer Section -->
<footer class="bg-dark navbar-static-bottom">
<div class="contanier-fluid text-center p-4 pb-1">
 © Copyright 2021
</div>
</footer>
</body>
</html>
```

## User\_add.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
 <style>
 .feed {
  min-height: 80vh;
 }
</style>
 <title>CRUD Operations</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 k rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"></s
cript>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script
</head>
<body>
<section id="title-bar">
 <div class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid px-5 py-1">
    <a class="navbar-brand" href="#">CRUD Operation</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarScroll" aria-expanded="false">
    <span class="navbar-toggler-icon"></span>
    </button>
```

```
<div class="collapse navbar-collapse" id="navbarScroll">
    ul class="navbar-nav mx-3 me-auto">
     class="nav-item">
      <a href="#" class="nav-link active">Home</a>
     class="nav-item">
      <a href="#" class="nav-link">University</a>
     </div>
  </div>
 </div>
 </section>
<div class="container mt-2 feed">
 <form action="/save" method="post">
  <div class="form-group">
  <label for="cid">Course id:</label>
  <input type="text" class="form-control" id="cid" placeholder="Enter Course id"</pre>
name="cid" required>
 </div>
 <div class="form-group">
  <label for="cname">Course name:</label>
  <input type="text" class="form-control" id="cname" placeholder="Enter Course
name" name="cname" required>
 </div>
 <div class="form-group">
```

```
<label for="dname">department name:</label>
  <input type="text" class="form-control" id="dname" placeholder="Enter department
name" name="dname" required>
 </div>
 <div class="form-group">
  <label for="iname">Institute name:</label>
  <input type="text" class="form-control" id="iname" placeholder="Enter Institute
name" name="iname" required>
 </div>
 <div class="form-group">
  <label for="uname">University name:</label>
  <input type="text" class="form-control" id="uname" placeholder="Enter University
name" name="uname" required>
 </div>
 <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>
<!-- footer Section -->
<footer class="bg-dark navbar-static-bottom">
<div class="contanier-fluid text-center p-4 pb-1">
 © Copyright 2021
</div>
</footer>
</body>
</html>
```

## App.js

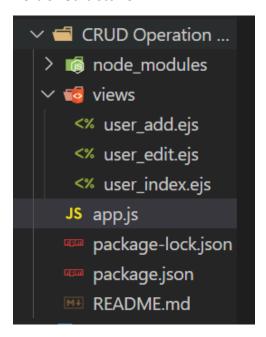
```
const path = require('path');
const express = require('express');
const ejs = require('ejs');
const bodyParser = require('body-parser');
const mysql = require('mysql');
const app = express();
const connection=mysql.createConnection({
  host:'localhost',
  user:'root',
  password:",
  database:'coursedetails'
});
connection.connect(function(error){
  if(!!error) console.log(error);
  else console.log('Database Connected!');
});
//set views file
app.set('views',path.join(__dirname,'views'));
//set view engine
app.set('view engine', 'ejs');
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: false }));
```

```
app.get('/',(req, res) => {
  // res.send('CRUD Operation using NodeJS / ExpressJS / MySQL');
  let sql = "SELECT * FROM university";
  let query = connection.query(sql, (err, rows) => {
    if(err) throw err;
    res.render('user_index', {
      users: rows
    });
  });
});
app.get('/add',(req, res) => {
  res.render('user_add', {
  });
});
app.post('/save',(req, res) => {
  let data = {cid: req.body.cid, cname: req.body.cname, dname: req.body.dname, iname:
req.body.iname, uname: req.body.uname};
  let sql = "INSERT INTO university SET ?";
  let query = connection.query(sql, data,(err, results) => {
   if(err) throw err;
   res.redirect('/');
  });
});
app.get('/edit/:userId',(req, res) => {
  const userId = req.params.userId;
```

```
let sql = `Select * from university where id = ${userId}`;
  let query = connection.query(sql,(err, result) => {
    if(err) throw err;
    res.render('user_edit', {
      user: result[0]
    });
  });
});
app.post('/update',(req, res) => {
  const userId = req.body.id;
  let sql = "update university SET cid='"+req.body.cid+"', cname='"+req.body.cname+"',
dname=""+req.body.dname+"", iname=""+req.body.iname+"",
uname=""+req.body.uname+"" where id ="+userId;
  let query = connection.query(sql,(err, results) => {
   if(err) throw err;
   res.redirect('/');
  });
});
app.get('/delete/:userId',(req, res) => {
  const userId = req.params.userId;
  let sql = `DELETE from university where id = ${userId}`;
  let query = connection.query(sql,(err, result) => {
    if(err) throw err;
    res.redirect('/');
  });
});
```

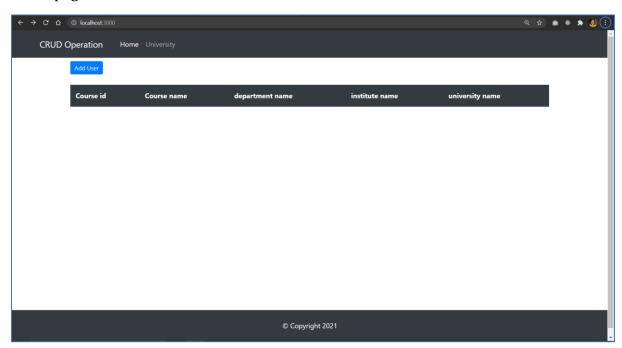
```
// Server Listening
app.listen(3000, () => {
  console.log('Server is running at port 3000');
});
```

#### Folder structure

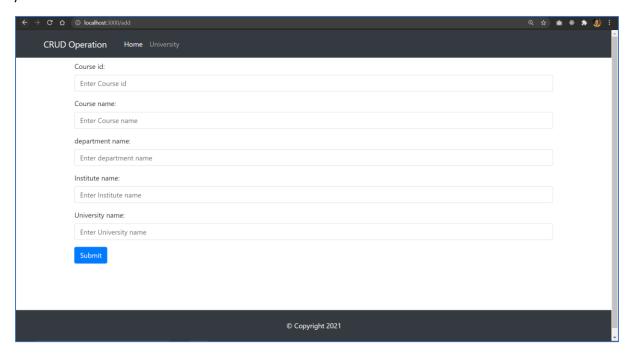


# **Output:**

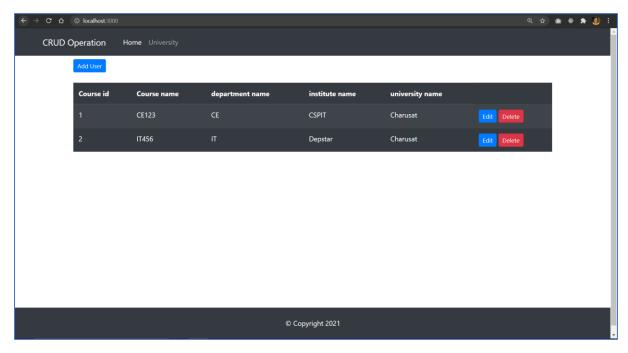
Home page



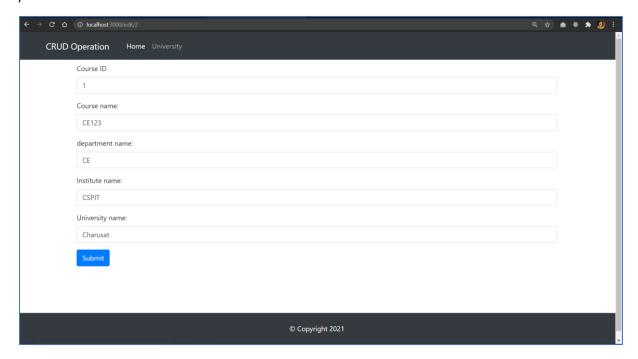
## /add route



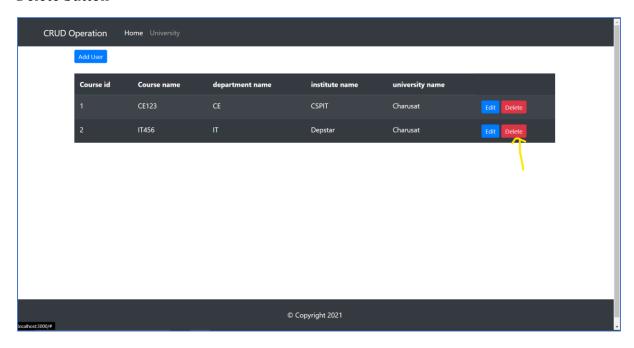
# Display the data



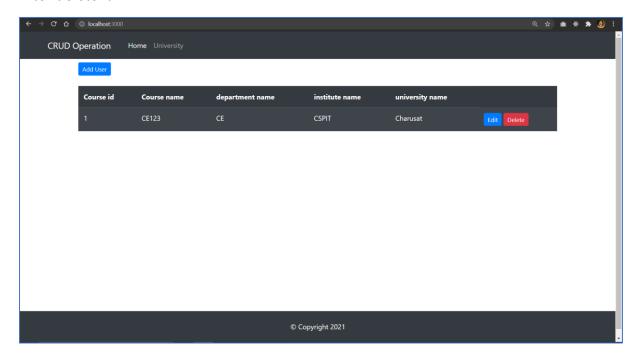
# /edit route



# Delete button



## After delete id 2



#### Table

