### Practical 6: Write a nodejs /Mysql code to implement CRUD operation.

### App.js

```
const path = require('path');
const express = require('express');
const ejs = require('ejs');
const bodyParser = require('body-parser');
const mysql = require('mysql2');
const app = express();
const connection=mysql.createConnection({
    host: \localhost',
    user: 'root',
    password: ",
    database:'db_university'
});
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(express.json());
app.use(express.urlencoded({ extended: false }));
app.get('/',(req, res) => {
    let sql = "SELECT * FROM tblstudentinfo";
    let query = connection.query(sql, (err, rows) => {
        if(err) throw err;
        res_render('user_index', {
            title : 'CRUD Operation using NodeJS / MySQL',
            users : rows
        });
    });
});
app.get('/faclty',(req, res) => {
    let sql = "SELECT * FROM tblfacltyinfo";
```

```
let query = connection.query(sql, (err, rows) => {
```

```
if(err) throw err;
        res_render('faclty_index', {
            title: 'CRUD Operation using NodeJS / MySQL',
            facalty: rows
       });
   });
});
app.get('/add',(req, res) => {
    res_render('user_add', {
        title: 'Add Student Information'
   });
});
app.post('/save',(req, res) => {
    let data = {stu name: req.body.stu name,stu dob:req.body.stu dob,stu age:r
eq.body.stu_age,stu_father:req.body.stu_father,stu_phone:req.body.stu_phone,st
u_address:req.body.stu_address};
    let sql = "INSERT INTO tblstudentinfo SET ?";
    let query = connection.query(sql, data,(err, results) => {
      if(err) throw err;
      res.redirect('/');
   });
});
app.get('/facalty',(req, res) => {
    res.render('facIty_add', {
        title: 'Add Facity information'
    });
});
app.post('/Submit',(req, res) => {
    let data = {name: req.body.name,dob:req.body.dob,email:req.body.email,phon
e:req.body.phone,address:req.body.address,department:req.body.department};
    let sql = "INSERT INTO tblfacttyinfo SET ?";
    let query = connection.query(sql, data,(err, results) => {
      if(err) throw err;
      res_redirect('/faclty');
    });
});
app.get('/edit/:userld',(req, res) => {
    const userId = req.params_userId;
    let sql = `Select * from tblstudentinfo where stu_id = ${userId}`;
    let query = connection.query(sql,(err, result) => {
        if(err) throw err;
        res_render('user_edit', {
            title: 'CRUD Operation using NodeJS / ExpressJS / MySQL',
```

user : result[0]

```
});
});
app.post('/update',(req, res) => {
    const userId = req.body.stu_id;
    let sql = "update tblstudentinfo SET stu_name=""+req.body.stu_name+"",stu_
dob=""+req.body.stu_dob+"",stu_age=""+req.body.stu_age+"",stu_father=""+req.bo
dy.stu_father+"',stu_phone='"+req.body.stu_phone+"',stu_address='"+req.body.st
u_address+"' where stu_id ="+userId;
    let query = connection.query(sql,(err, results) => {
      if(err) throw err;
      res_redirect('/');
    });
});
app.get('/update/:userld',(req, res) => {
    const userId = req.params.userId;
    let sql = `Select * from tblfacltyinfo where id = ${userId}`;
    let query = connection.query(sql,(err, result) => {
        if(err) throw err;
        res_render('facIty_edit', {
            title: 'CRUD Operation using NodeJS / ExpressJS / MySQL',
            facalty : result[0]
        });
   });
});
app.post('/edit',(req, res) => {
    const userId = req.body.id;
    let sql = "update tblfacltyinfo SET name=""+req.body.name+"",dob=""+req.bo
dy_dob+"',email=""+req_body_email+"',phone=""+req_body_phone+"',address=""+req
_body_address+"',department=""+req_body_department+"' where id ="+userId;
    let query = connection.query(sql,(err, results) => {
      if(err) throw err;
      res_redirect('/faclty');
    });
});
app.get('/delete/:userld',(req, res) => {
    const userId = req.params.userId;
    let sql = `DELETE from tblstudentinfo where stu_id = ${userld}`;
    let query = connection.query(sql,(err, result) => {
        if(err) throw err;
        res_redirect('/');
    });
});
```

```
app.get('/deleted/:userld',(req, res) => {
   const userld = req.params.userld;
```

```
let sql = `DELETE from tblfacltyinfo where id = ${userld}`;
let query = connection.query(sql,(err, result) => {
    if(err) throw err;
    res_redirect('/faclty');
    });
});
// Server Listening
app_listen(3000, () => {
    console_log('Server is running at port 3000');
});
```

### views/facIty\_add.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title><%= title %></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.j</pre>
s"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<body>
<div class="container">
  <h2><%= title %></h2>
  <form action="/Submit" method="post">
    <div class="form-group">
      <label for="name">Name:
      <input type="text" class="form-control" id="name" name="name" required>
    </div>
    <div class="form-group">
      <label for="dob">Date of Birth:</label>
      <input type="date" class="form-control" id="dob" name="dob" required>
    </div>
    <div class="form-group">
        <label for="email">Email:</label>
        <input type="text" class="form-</pre>
control" id="email" name="email" required>
     </div>
```

```
<div class="form-group">
        <label for="phone">PhoneNo:</label>
        <input type="text" class="form-</pre>
control" id="phone" name="phone" minlength="10" maxlength="10" required>
      </div>
      <div class="form-group">
        <label for="address">Address:</label>
        <input type="text" class="form-</pre>
control" id="address" name="address" required>
      </div>
      <div class="form-group">
        <label for="department">Department:</label>
        <input type="text" class="form-</pre>
control" id="department" name="department" required>
      </div>
    <button type="submit" class="btn btn-primary">Submit
  </form>
</div>
</body>
</html>
```

## views/facIty\_index.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title><%= title %></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.j</pre>
s"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<body>
<div class="container">
  <h2><%= title %></h2>
  <a href="/add" class="btn btn-sm btn-primary">Add Student</a>
  <a href="/facalty" class="btn btn-sm btn-
primary">Add Facalty</a></br><br/>><br/>>cbr/><h2>View facIty Information</h2>
```

```
<thead class="thead-dark">
  Name
   Date Of Birth
   Email
   Phone Number
   Address
   Departmet
   Action
  </thead>
 <%facalty.forEach(function(facalty){ %>
     <%=facalty.address%>
       <a href="update/<%= facalty.id %>" class="btn btn-sm btn-
primary">Edit</a>
         <a href="deleted/<%= facalty.id %>" class="btn btn-sm btn-
danger">Delete</a>
       <%});%>
 </div>
</body>
</html>
```

# views/facIty\_edit.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
<title><%= title %></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.j</pre>
s"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<body>
<div class="container">
  <!-- <h2><%= title %></h2> -->
  <form action="/edit" method="post">
    <input type="hidden" value="<%=facalty.id %>" name="id">
    <div class="form-group">
      <label for="name">Name:</label>
      <input type="text" class="form-</pre>
control" id="email" value="<%=facalty_name%>" name="name" required>
    </div>
    <div class="form-group">
      <label for="dob">Date of Birth:</label>
      <input type="date" class="form-</pre>
control" id="dob" value="<%=facalty.dob%>" name="dob" required>
    </div>
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="text" class="form-</pre>
control" id="email" value="<%=facalty.email%>" name="email" required>
    </div>
      <div class="form-group">
        <label for="phone">PhoneNo:</label>
        <input type="text" class="form-</pre>
control" id="phone" value="<%=facalty_phone%>" name="phone" minlength="10" ma
xlength="10" required>
      </div>
      <div class="form-group">
        <label for="address">Address:</label>
        <input type="text" class="form-</pre>
control" id="address" value="<%=facalty_address%>" name="address" required>
      </div>
      <div class="form-group">
        <label for="department">Department:</label>
        <input type="text" class="form-</pre>
control" id="department" value="<%=facalty.department%>" name="department" re
quired>
```

```
</div>
  <button type="submit" class="btn btn-primary">Submit</button>
  </form>
  </div>
  <body>
  </html>
```

### views/user\_add.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title><%= title %></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.j</pre>
s"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<div class="container">
  <h2><%= title %></h2>
  <form action="/save" method="post">
    <div class="form-group">
      <label for="name">Name:</label>
      <input type="text" class="form-</pre>
control" id="name" name="stu_name" required>
    </div>
    <div class="form-group">
      <label for="dob">Date of Birth:</label>
      <input type="date" class="form-</pre>
control" id="dob" name="stu_dob" required>
    </div>
    <div class="form-group">
      <label for="age">Age:</label>
      <input type="number" class="form-</pre>
control" id="age" name="stu_age" required>
    </div>
```

```
<div class="form-group">
        <label for="father">Student FatherName:</label>
        <input type="text" class="form-</pre>
control" id="father" name="stu_father" required>
      </div>
      <div class="form-group">
        <label for="phone">Student PhoneNo:</label>
        <input type="text" class="form-</pre>
control" id="phone" name="stu_phone" minlength="10" maxlength="10" required>
      </div>
      <div class="form-group">
        <label for="address">Student Address:</label>
        <input type="text" class="form-</pre>
control" id="address" name="stu_address" required>
      </div>
    <button type="submit" class="btn btn-primary">Submit
  </form>
</div>
</body>
</html>
```

### views/user\_index.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title><%= title %></title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  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.j</pre>
s"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<body>
<div class="container">
  <h2><%= title %></h2>
  <a href="/add" class="btn btn-sm btn-primary">Add Student</a>
  <a href="/facalty" class="btn btn-sm btn-primary">Add Facalty</a></br>
  <h2>View Student Information</h2>
```

```
<thead class="thead-dark">
   Student Name
    Date Of Birth
    Age
    Student FatherName
    Phone Number
    Address
    Action
   </thead>
  <%users.forEach(function(user){ %>
       <%=user.stu_name %>
         <%=user.stu address%>
         <a href="edit/<%= user.stu id %>" class="btn btn-sm btn-
primary">Edit</a>
            <a href="delete/<%= user.stu_id %>" class="btn btn-sm btn-
danger">Delete</a>
         <%});%>
  </div>
</body>
</html>
```

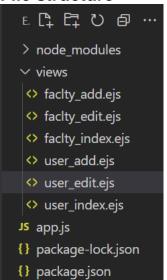
# views/user\_edit.ejs

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.j</pre>
s"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/pop</pre>
per.min.js"></script>
 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.mi</pre>
n.js"></script>
</head>
<body>
<div class="container">
  <h2><%= title %></h2>
  <form action="/update" method="post">
    <input type="hidden" value="<%= user.stu_id %>" name="stu_id">
    <div class="form-group">
      <label for="name">Name:</label>
      <input type="text" class="form-</pre>
control" id="email" value="<%=user_stu_name%>" name="stu_name" required>
    </div>
    <div class="form-group">
      <label for="dob">Date of Birth:</label>
      <input type="date" class="form-</pre>
control" id="dob" value="<%=user.stu dob%>" name="stu dob" required>
    </div>
    <div class="form-group">
      <label for="age">Age:</label>
      <input type="number" class="form-</pre>
control" id="age" value="<%=user.stu_age%>" name="stu_age" required>
    </div>
    <div class="form-group">
        <label for="father">Student FatherName:</label>
        <input type="text" class="form-</pre>
control" id="father" value="<%=user.stu father%>" name="stu father" required>
      </div>
      <div class="form-group">
        <label for="phone">Student PhoneNo:</label>
        <input type="text" class="form-</pre>
control" id="phone" value="<%=user.stu_phone%>" name="stu_phone" minlength="1
O" maxlength="10" required>
      </div>
      <div class="form-group">
        <label for="address">Student Address:</label>
        <input type="text" class="form-</pre>
control" id="address" value="<%=user_stu_address%>" name="stu_address" require
d>
      </div>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>
```

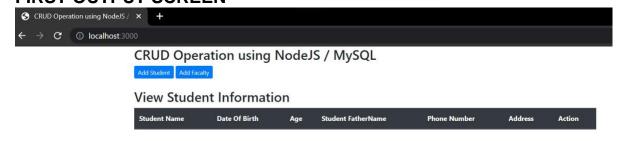
```
</body>
```

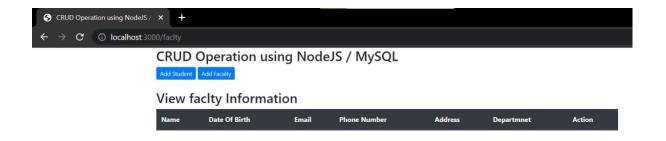
# **Output:-**

# File structure

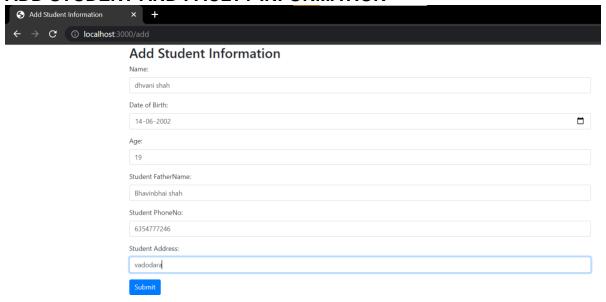


# **FIRST OUTPUT SCREEN**





### ADD STUDENT AND FACLTY INFORMATION

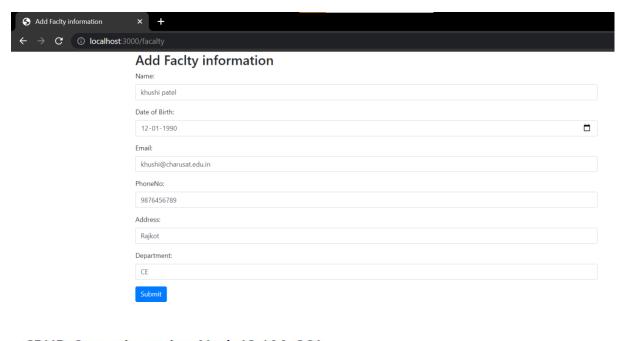


## CRUD Operation using NodeJS / MySQL



#### **View Student Information**

Student Name	Date Of Birth	Age	Student FatherName	Phone Number	Address	Action
dhvani shah	2002-06-14	19	Bhavinbhai shah	6354777246	vadodara	Edit Delete



# CRUD Operation using NodeJS / MySQL



khushi patel

1990-01-12

## View faclty Information

Name	Date Of Birth	Email	Phone Number	Address	Departmnet	Action
khushi patel	1990-01-12	khushi@charusat.edu.in	9876456789	Rajkot	CE	Edit Delete

#### **EDIT STUDENT AND FACLTY INFORMATION**

#### CRUD Operation using NodeJS / MySQL Add Student Add Facalty **View Student Information** Student Name **Date Of Birth** Student FatherName Phone Number Address Action Age dhvani shah 2002-06-14 Bhavinbhai shah 9876545678 19 godhara CRUD Operation using NodeJS / MySQL Add Student Add Facalty View faclty Information Date Of Birth Email Phone Number Address Action Departmnet

9876456789

Rajkot

#### **DELETE STUDENT FACLTY INFORMATION**

khushi@gmail.com

Edit Delete

# CRUD Operation using NodeJS / MySQL

Add Student Add Facalty

# View faclty Information

Name Date Of Birth Email Phone Number Address Departmnet Action

# CRUD Operation using NodeJS / MySQL

Add Student Add Facalty

### **View Student Information**

Student Name Date Of Birth Age Student FatherName Phone Number Address Action

### database

