

Lab-task-06-09:Nodejs db operation

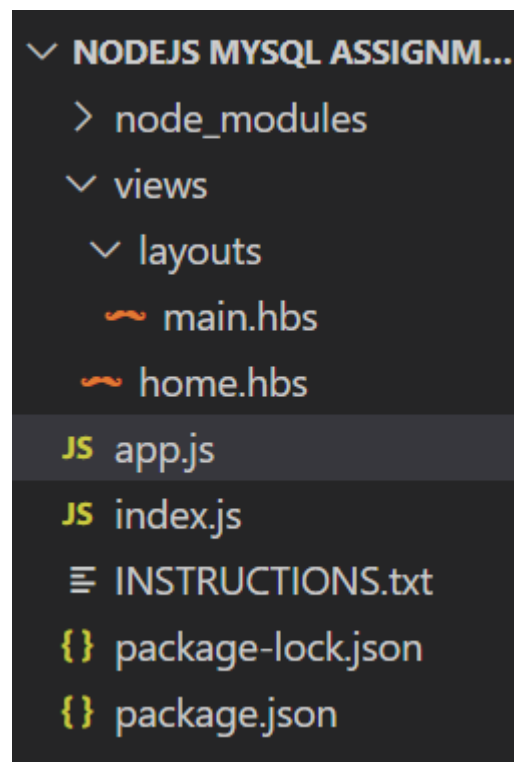
AIM:

Task1: Using Handlebar, create HTML page that contains following information

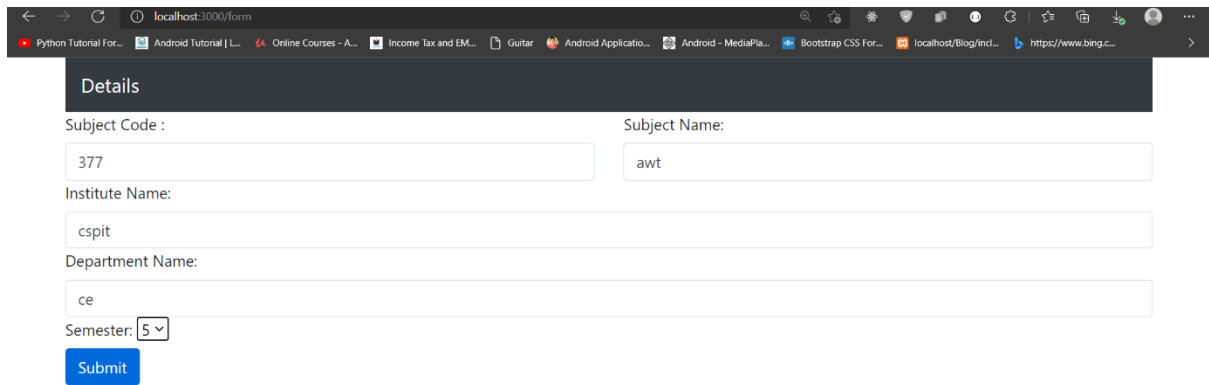
1. Subject-Code, Subject-Name (Text-box)
2. Institute-Name (Text-box)
3. Department-Name (Text-box)
4. Semester=>Dropdown menu

Task2: Store above information into MySQL database and display

STRUCTURE:

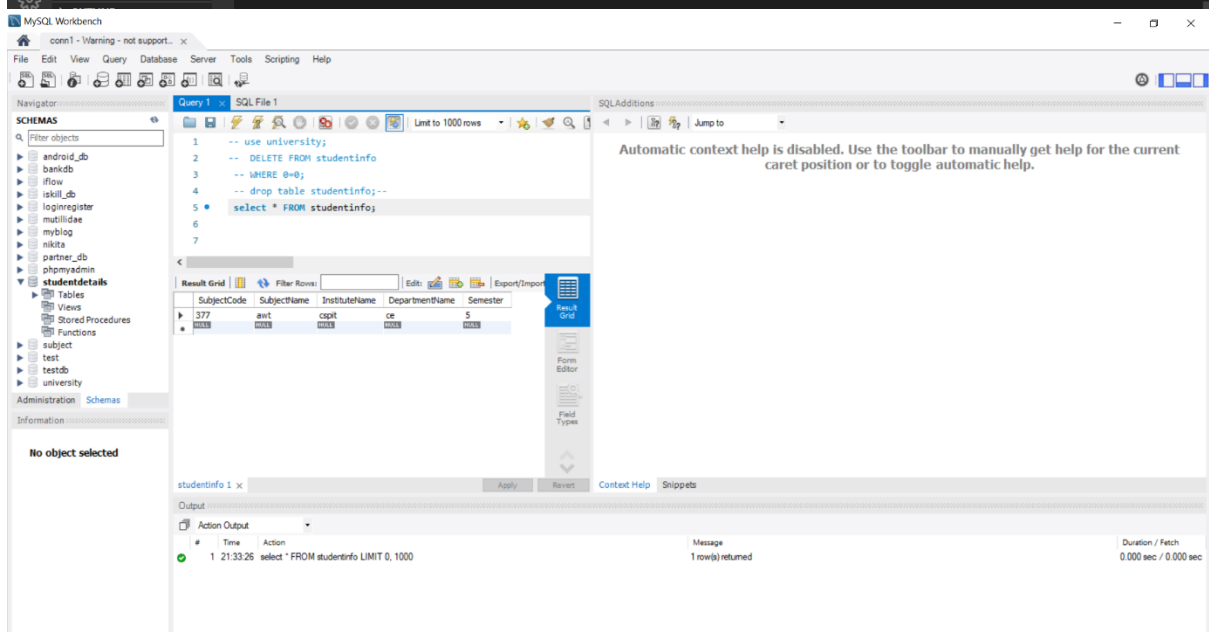
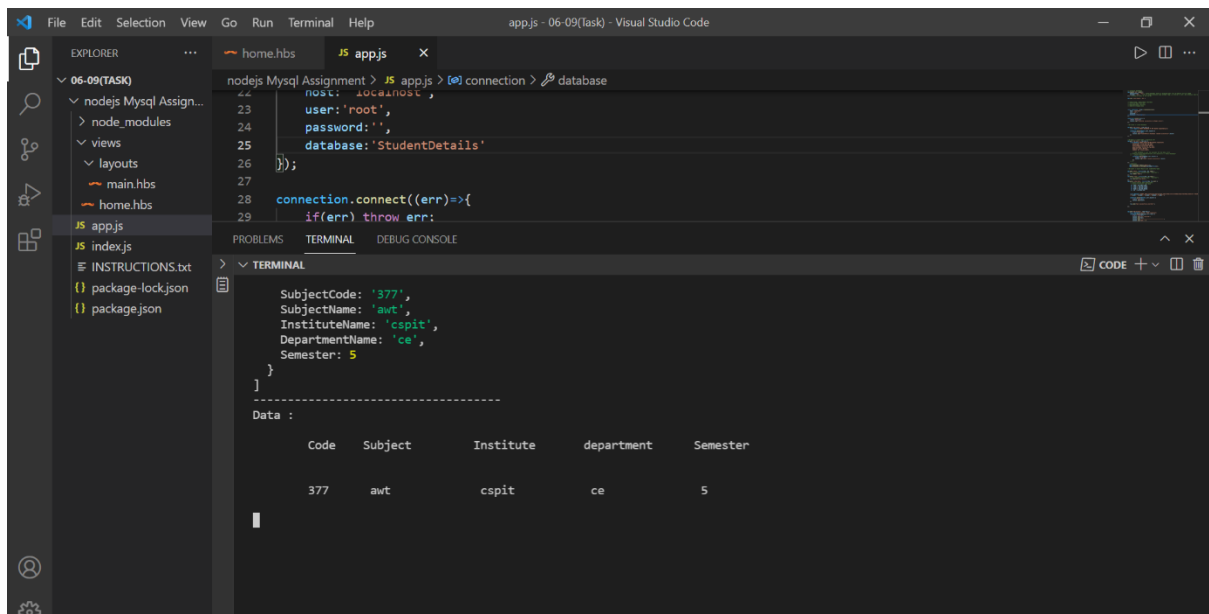
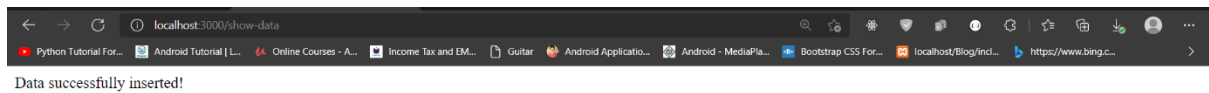


OUTPUT:



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/form'. The browser's tab bar includes several open tabs: 'Python Tutorial For...', 'Android Tutorial | L...', 'Online Courses - A...', 'Income Tax and EM...', 'Guitar', 'Android Applicatio...', 'Android - MediaPla...', 'Bootstrap CSS For...', 'localhost/Blog/Inc...', and 'https://www.bing.c...'. The main content area of the browser displays a form titled 'Details' in a dark header. The form contains the following fields and controls:

- Subject Code :** A text input field containing the value '377'.
- Subject Name:** A text input field containing the value 'awt'.
- Institute Name:** A text input field containing the value 'cspit'.
- Department Name:** A text input field containing the value 'ce'.
- Semester:** A dropdown menu with '5' selected.
- Submit:** A blue button with the text 'Submit'.



CODE:**app.js**

```
const express = require('express');
const exphbs = require('express-handlebars');
const mysql=require('mysql')

const app = express();
// configure handlebars
app.engine('hbs',exphbs({
  defaultLayout : 'main', //main handlebar should be displayed when first my
  website will be loaded
  extname: '.hbs', //we can change extension using extname flags..so here
  we'll write .hbs extension which we r going to use
})); //instead of exhbs we can use hbs

app.set('view engine','hbs');

// Subject-Code, Subject-Name (Text-box)
// Institute-Name (Text-box)
// Department-Name (Text-box)
// Semester=>Dropdown menu

const connection = mysql.createConnection({
  host: 'localhost',
  user:'root',
  password:'',
  database:'StudentDetails'
});

connection.connect((err)=>{
  if(err) throw err;
  console.log("Connected successfully to MySql server")
});

//db-create => create Database

app.get("/db-create", (req,res)=>{
  const dbquery="CREATE DATABASE IF NOT EXISTS StudentDetails";

  connection.query(dbquery,(err,result)=>{
    if(err) throw err;
    console.log("StudentDetails Database created successfully",result)
  })
});
```

```
//db-table => Create Table in University DB
app.get("/db-table", (req,res)=>{
  const dbtable=`CREATE TABLE IF NOT EXISTS studentInfo(
    SubjectCode varchar(10) NOT NULL,
    SubjectName varchar(50) NOT NULL,
    InstituteName varchar(50) NOT NULL,
    DepartmentName varchar(15) NOT NULL,
    Semester int(3) NOT NULL,
    PRIMARY KEY (SubjectCode))`

    // SHOW DATABASES => List the available DB from MySql server
  // connection.query("USE University",(err,result)=>{ // "Select Database"
  //   if(err) throw err;
  //   connection.query(dbtable,(err,result)=>{
  //     if(err) throw err;
  //     console.log("Table created successfully",result)
  //   });
  // });
});
//middleware
app.use(express.static("public"));
app.use(express.urlencoded({extended:false}));

//db-insert => Insert Record into studentInfo Table

app.get('/form', function(req, res, next) {
  // res.setHeader("Content-Type", "html/text");
  res.render('home');
});
app.post('/form', function(req, res,next) {
  // res.setHeader("Content-Type", "html/text");
  res.redirect("show-data");
});
app.post('/show-data', function(req, res,next) {
  // console.log(req.body.subjectcode);
  // store all the user input data
  var code = req.body.scode;
  var sname = req.body.sname;
  var iname = req.body.iname;
  var dname = req.body.dname;
  var sem = req.body.sem;

  const dbInsert=`INSERT INTO studentInfo(SubjectCode,SubjectName,InstituteName,DepartmentName,Semester) VALUES
    ("${code}","${sname}","${iname}","${dname}","${sem}")`;

  connection.query(dbInsert,(err,result)=>{
```

```

        if(err) throw err;
        console.log(result)
    })

    res.send("Data successfully inserted!");
});

app.get("/db-display", (req,res)=>{
    const dbdisplay=`SELECT * FROM studentInfo`
    connection.query(dbdisplay,(err,rows)=>{
        if(err) throw err;
        console.log('Data received');
        console.log(rows);
        console.log('-----')
        console.log(`Data : \n
Code \tSubject\t\tInstitute \tdepartment\tSemester\n`);

        for (let index = 0; index < rows.length; index++) {
            let id = rows[index].SubjectCode;
            let sname = rows[index].SubjectName;
            let iname = rows[index].InstituteName;
            let dname = rows[index].DepartmentName;
            let semester = rows[index].Semester;

            console.log(`
${id} \t ${sname} \t\t ${iname} \t\t ${dname} \t\t ${semester} \n `);
        }

    })
});

app.listen(3000,()=>{
    console.log('Listening on port 3000..');
});

```

main.hbs

```

<html lang="en">
<head>

```

```
{!- <meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0"> --
}}
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/
4.4.1/css/bootstrap.min.css">
<title>Book Face</title>
</head>
<body>
  <div class="container">
    {{{body}}}
  </div>

  <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper
.min.js"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstr
ap.min.js"></script>
</body>
</html>
```

home.hbs

```
{!- <h1>Welcome to Charusat blog</h1> --}

<nav class="navbar-dark bg-dark navbar">
  <a href="#" class="navbar-brand">Details</a>
</nav>

<form action="/show-data" method="post" class="row g-3" >
  <div class="col-md-6">
    <label for="inputEmail4" class="form-label">Subject Code :</label>
    <input type="number" class="form-
control" name="scode" id="subjectcode" required>
  </div>
  <div class="col-md-6">
    <label for="inputPassword4" class="form-label">Subject Name: </label>
    <input type="text" class="form-
control" name="sname" id="subjectname" required>
  </div>
  <div class="col-12">
    <label for="inputAddress2" class="form-label">Institute Name: </label>
    <input type="text" class="form-
control" name="iname" id="institutename" required>
  </div>
  <div class="col-12">
    <label for="inputCity" class="form-label">Department Name:</label>
```

```
<input type="text" class="form-  
control" name="dname" id="departmentname" required>  
</div>  
<br><br>  
<div class="col-md-4">  
  <label for="inputState" class="form-label">Semester: </label>  
  <select id="inputState" class="form-  
select" required name="sem" id="semester">  
    <option selected>1</option>  
    <option>2</option>  
    <option>3</option>  
    <option>4</option>  
    <option>5</option>  
    <option>6</option>  
  </select>  
</div>  
  
<div class="col-12">  
  <button type="submit" class="btn btn-primary">Submit</button>  
</div>  
</form>
```