Nodejs DB Operation

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

**Code-**

**Server.js**

*const* express = require("express");

*const* bodyparser = require("body-parser");

*const* exhbs = require("express-handlebars");

*const* mysql = require("mysql");

*const* app = express();

*const* path = require("path");

//Database connection

*const* connection = mysql.createConnection({

host: "localhost",

user: "root",

password: "",

database: "University",

});

connection.connect((*err*) *=>* {

if (*err*) throw *err*;

console.log("Connected successfully to MySql server");

});

app.engine(

"hbs",

exhbs({

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

})

);

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

app.use(

express.urlencoded({

extended: true,

})

);

app.use(express.urlencoded({ extended: true }));

app.get("/add-course", (*req*, *res*) *=>* {

*res*.render("addCourse.hbs", { title: "add course" });

});

app.post("/add-course", (*req*, *res*) *=>* {

*const* dbtable = `CREATE TABLE IF NOT EXISTS courseInfo(

subjectCode varchar(10) NOT NULL,

subjectName varchar(50) NOT NULL,

instituteName varchar(50) NOT NULL,

departmentName varchar(15) NOT NULL,

semester varchar(15) NOT NULL,

PRIMARY KEY (subjectCode))`;

connection.query(dbtable, (*err*, *result*) *=>* {

if (*err*) throw *err*;

console.log("Table created successfully", *result*);

});

*const* data = *req*.body;

console.log("add course data", *req*.body);

*const* addCourseQuery = `INSERT INTO courseInfo

(subjectCode,subjectName,instituteName,departmentName,semester)

VALUES ('${data.subjectcode}','${data.subjectname}','${data.institutename}','${data.departmentname}','${data.semester}')`;

// ,'CSPIT','Computer Engineering','Fifth')`;

connection.query(addCourseQuery, (*err*, *result*) *=>* {

if (*err*) throw *err*;

console.log("course added successfully", *result*);

*res*.status(200).redirect("/show-courses");

});

});

app.get("/show-courses", (*req*, *res*) *=>* {

*const* getCourses = "SELECT \* from courseInfo";

connection.query(getCourses, (*err*, *result*) *=>* {

if (*err*) throw *err*;

console.log("Data retrieved!", *result*);

*res*.render("showCourses.hbs", { title: "Current Courses", array: *result* });

});

});

app.get("/delete", (*req*, *res*) *=>* {

*const* dbDelete = `delete from courseinfo`;

connection.query(dbDelete, (*err*, *result*) *=>* {

if (*err*) throw *err*;

console.log("Table rows Deleted successfully", *result*);

*res*.status(200).send({ msg: "success" });

});

});

app.listen(3000, () *=>* {

console.log("Server running on 3000");

});

**views/layout/main.hbs**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>{{*title*}}</title>**

**<link rel="preconnect" href="https://fonts.googleapis.com">**

**<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>**

**<link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">**

**<style>**

**body{**

***font-family*: 'Roboto', sans-serif;**

**}**

**li,**

**a {**

***font-weight*: 500;**

***font-size*: 16px;**

***color*: #047aa1;**

***text-decoration*: none;**

**}**

**header {**

***font-size*: 2em;**

***font-weight*: 800;**

***color*: rgb(206, 52, 52);**

***display*: flex;**

***justify-content*: space-between;**

***align-items*: center;**

***padding*: 10px 10%;**

**}**

**.navlinks {**

***list-style*: none;**

**}**

**.navlinks li {**

***display*: inline-block;**

***padding*: 0px 20px;**

**}**

**.navlinks li a {**

***font-weight*: 600;**

***transition*: all 0.3s ease 0s;**

**}**

**.navlinks li a:hover {**

***color*: #1b3d46;**

**}**

**table {**

***width*: 100%;**

**}**

**table, th, td {**

***border*: 1px solid lightgrey;**

***border-collapse*: collapse;**

**}**

**th, td {**

***padding*: 2px 4px;**

**}**

**input[type=text],**

**select {**

***width*: 100%;**

***padding*: 12px 20px;**

***margin*: 8px 0;**

***display*: inline-block;**

***border*: 1px solid #ccc;**

***border-radius*: 4px;**

***box-sizing*: border-box;**

**}**

**input[type=submit] {**

***width*: 100%;**

***background-color*: #6a4caf;**

***color*: white;**

***padding*: 14px 20px;**

***margin*: 8px 0;**

***border*: none;**

***border-radius*: 4px;**

***cursor*: pointer;**

**}**

**input[type=submit]:hover {**

***background-color*: #45a049;**

**}**

**.form-div {**

***border-radius*: 5px;**

***background-color*: #f2f2f2;**

***padding*: 20px;**

***width*: 80%;**

***margin*: 0 10%;**

**}**

**h3{**

***text-align*: center;**

***font-size*: 40px;**

**}**

**</style>**

**</head>**

**<body>**

**{{{*body*}}}**

**</body>**

**</html>**

**views/addCourse.hbs**

**<header**

**<nav>**

**<ul class="navlinks">**

**<li><a href="/add-course">Add New Course</a></li>**

**<li><a href="/show-courses">Show All Courses</a></li>**

**</ul>**

**</nav>**

**</header>**

**<h3>Add Course</h3>**

**<div class="form-div">**

**<form action="/add-course" method="POST">**

**<label for="subjectcode">Subject Code</label>**

**<input type="text" id="scode" name="subjectcode" placeholder="subject code..">**

**<label for="subjectname">Course Name</label>**

**<input type="text" id="cname" name="subjectname" placeholder="Subject name..">**

**<label for="institutename">Institute Name</label>**

**<input type="text" id="institutename" name="institutename" placeholder="Institute name..">**

**<label for="departmentname">Department Name</label>**

**<input type="text" id="departmentname" name="departmentname" placeholder="Department name..">**

**{{!-- <label for="semester">Semester Name</label>**

**<input type="text" id="semester" name="semester" placeholder="Semester name..">**

**--}}**

**<label for="semester">Semester</label>**

**<select id="semester" name="semester">**

**<option value="First">First</option>**

**<option value="Second">Second</option>**

**<option value="Third">Third</option>**

**<option value="Fourth">Fourth</option>**

**<option value="Fifth">Fifth</option>**

**</select>**

**<input type="submit" value="Submit">**

**</form>**

**</div>**

**views/showCourses.hbs**

**<header>**

**<nav>**

**<ul class="navlinks">**

**<li><a href="/add-course">Add New Course</a></li>**

**<li><a href="/show-courses">Show All Courses</a></li>**

**</ul>**

**</nav>**

**</header>**

**<h3>Add Course</h3>**

**<div class="form-div">**

**<form action="/add-course" method="POST">**

**<label for="subjectcode">Subject Code</label>**

**<input type="text" id="scode" name="subjectcode" placeholder="subject code..">**

**<label for="subjectname">Course Name</label>**

**<input type="text" id="cname" name="subjectname" placeholder="Subject name..">**

**<label for="institutename">Institute Name</label>**

**<input type="text" id="institutename" name="institutename" placeholder="Institute name..">**

**<label for="departmentname">Department Name</label>**

**<input type="text" id="departmentname" name="departmentname" placeholder="Department name..">**

**{{!-- <label for="semester">Semester Name</label>**

**<input type="text" id="semester" name="semester" placeholder="Semester name..">**

**--}}**

**<label for="semester">Semester</label>**

**<select id="semester" name="semester">**

**<option value="First">First</option>**

**<option value="Second">Second</option>**

**<option value="Third">Third</option>**

**<option value="Fourth">Fourth</option>**

**<option value="Fifth">Fifth</option>**

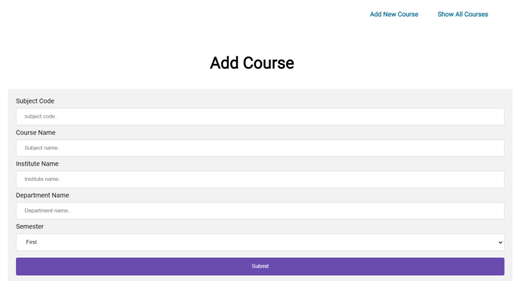
**</select>**

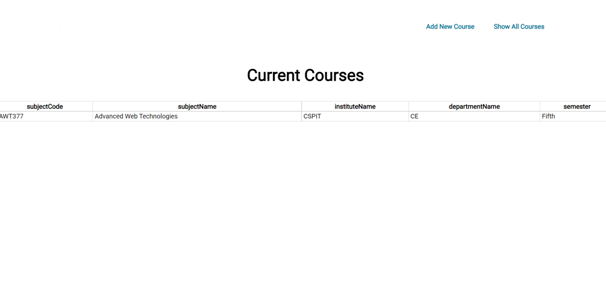
**<input type="submit" value="Submit">**

**</form>**

**</div>**

**Screenshots-**

****

****