# Course Retriever Web Project

Student Nama:

Student ID:

Study Program:

## Introduction:

A web interface to retrieve course data using to course name from the database. Course data has already been stored in the database.

## Tools:

* HTML, CSS, Bootstrap
* PHP, MySQL
* VSCode

## Form for Submission:

I built a form which have a dropdown menu and a button titled “Retrieve Course”. Dropdown Menu in the form show a list of Course Names which are retrieved dynamically from the database.

### Database SQL File:

Filename: *database.sql*

Database file has schema for database “**courses**” and the table “**myCourses**”. This file also has some dummy data to insert in the database.

-- A database to sava the courses data, rop if exixts

DROP DATABASE IF EXISTS courses;

CREATE DATABASE courses;

-- create table myCourses with columns course id, course title, credit housr, lab, instructor, year

USE courses;

DROP TABLE IF EXISTS myCourses;

USE courses;

CREATE TABLE

myCourses (

course\_id INT NOT NULL AUTO\_INCREMENT,

course\_title VARCHAR(255) NOT NULL,

credit\_hours INT NOT NULL,

lab BOOLEAN NOT NULL,

instructor VARCHAR(255) NOT NULL,

year INT NOT NULL,

PRIMARY KEY (course\_id)

);

-- insert data into myCourses

USE courses;

INSERT INTO

myCourses (

course\_id,

course\_title,

credit\_hours,

lab,

instructor,

year

)

VALUES (

1,

'Database',

3,

0,

'Dr. Smith',

2022

), (

2,

'Web Design',

3,

0,

'Dr. Smith',

2022

), (

3,

'Web Programming',

3,

0,

'Dr. Smith',

2022

), (

4,

'Data Structures',

3,

0,

'Dr. Smith',

2022

), (

5,

'Algorithms',

3,

0,

'Dr. Smith',

2022

), (

6,

'Computer Architecture',

3,

0,

'Dr. Smith',

2022

), (

7,

'Operating Systems',

3,

0,

'Dr. Smith',

2022

), (

8,

'Computer Networks',

3,

0,

'Dr. Smith',

2022

), (

9,

'Software Engineering',

3,

0,

'Dr. Smith',

2022

), (

10,

'Database Lab',

1,

1,

'Dr. Smith',

2022

), (

11,

'Web Design Lab',

1,

1,

'Dr. Smith',

2022

), (

12,

'Web Programming Lab',

1,

1,

'Dr. Smith',

2022

), (

13,

'Data Structures Lab',

1,

1,

'Dr. Smith',

2022

), (

14,

'Algorithms Lab',

1,

1,

'Dr. Smith',

2022

), (

15,

'Computer Architecture Lab',

1,

1,

'Dr. Smith',

2022

), (

16,

'Operating Systems Lab',

1,

1,

'Dr. Smith',

2022

), (

17,

'Computer Networks Lab',

### Database Connection Code:

Filename*: db\_connect.php*

Database connection file has the code for the MySQL database connection.

<?php

// Connection Info

$host = "localhost";

$user = "root";

$pass = "";

$db = "courses";

// Create connection

$conn = mysqli\_connect($host, $user, $pass, $db);

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

### Index File Code:

Filename: *index.php*

Index file has the code for the Front-end and the User Interface. This file also has the loops for the data retrieved.

<?php

// call the db connection file

require\_once('db\_connect.php');

?>

<!doctype html>

<html lang="en">

<head>

<title>Cources Retrieve from DB</title>

<!-- Required meta tags -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<!-- Bootstrap CSS v5.2.1 -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT" crossorigin="anonymous">

</head>

<body>

<header>

<!------------ Start - Navbar ------------>

<nav class="navbar navbar-expand-sm navbar-dark bg-primary">

<div class="container">

<a class="navbar-brand" href="./index.php">Course Retriever</a>

<button class="navbar-toggler d-lg-none" type="button" data-bs-toggle="collapse" data-bs-target="#collapsibleNavId" aria-controls="collapsibleNavId" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

</div>

</nav>

<!------------- End - Navbar ------------->

</header>

<main>

<!------------ Start - Form Retrive Cource ------------>

<!-- A form with selectbox which will retrieve course data from database using course name -->

<div class="container">

<div class="row">

<div class="col-md-6 offset-md-3">

<div class="card mt-5">

<div class="card-header">

<h3>Retrieve Course</h3>

</div>

<div class="card-body">

<form action="index.php" method="POST">

<div class="row justify-content-center align-items-center g-2">

<div class="form-group col-auto">

<div class="row align-items-center justify-content-between">

<div class="col-auto">

<label class="col-form-label" for="course">Course</label>

</div>

<div class="col-auto">

<select class="form-select" name="course" id="course">

<option value="0">Select Course</option>

<option value="all">All Courses</option>

<?php

// Query to get all courses from database

$query = "SELECT \* FROM myCourses";

$result = mysqli\_query($conn, $query);

// Loop through the returned data

while ($row = mysqli\_fetch\_array($result)) {

echo "<option value='" . $row['course\_id'] . "'>" . $row['course\_title'] . "</option>";

}

?>

</select>

</div>

<div class="col-auto">

<button type="submit" name="submit" class="btn btn-primary">Retrieve Course</button>

</div>

</div>

</div>

</div>

</form>

</div>

</div>

</div>

</div>

</div>

<!------------- End - Form Retrive Cource ------------->

<!------------ Start - List Retrived Course ------------>

<!-- A table which will display the retrived course data from database -->

<?php

if (isset($\_POST['submit'])) {

?>

<div class="container">

<div class="row">

<div class="col-md-6 offset-md-3">

<div class="card mt-5">

<div class="card-header">

<h3>Retrived Course</h3>

</div>

<div class="card-body">

<table class="table table-striped">

<thead>

<tr>

<th scope="col">Course ID</th>

<th scope="col">Course Title</th>

<th scope="col">Credit Hours</th>

<th scope="col">Lab</th>

<th scope="col">Year</th>

</tr>

</thead>

<tbody>

<?php

// Check if the form is submitted

if (isset($\_POST['submit'])) {

// Get the selected course id

$course\_id = $\_POST['course'];

// Query to get the course data from database data

if ($course\_id == 'all') {

$query = "SELECT \* FROM myCourses";

} else {

$query = "SELECT \* FROM myCourses WHERE course\_id = $course\_id";

}

$result = mysqli\_query($conn, $query);

// Loop through the returned data

while ($row = mysqli\_fetch\_array($result)) {

echo "<tr>";

echo "<td>" . $row['course\_id'] . "</td>";

echo "<td>" . $row['course\_title'] . "</td>";

echo "<td>" . $row['credit\_hours'] . "</td>";

// Check if the course has lab

if ($row['lab'] == 1) {

echo "<td>Yes</td>";

} else {

echo "<td>No</td>";

}

echo "<td>" . $row['year'] . "</td>";

echo "</tr>";

}

}

?>

</tbody>

</table>

</div>

</div>

</div>

</div>

</div>

<?php } ?>

<!------------- End - List Retrived Course ------------->

</main>

<footer>

<!------------ Start - Footer ------------>

<!------------- End - Footer ------------->

</footer>

<!-- Bootstrap JavaScript Libraries -->

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js" integrity="sha384-oBqDVmMz9ATKxIep9tiCxS/Z9fNfEXiDAYTujMAeBAsjFuCZSmKbSSUnQlmh/jp3" crossorigin="anonymous">

</script>

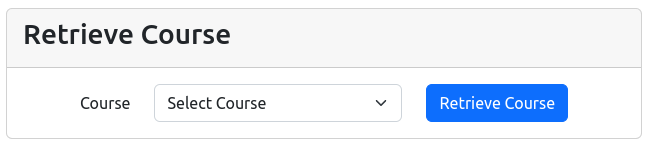
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.min.js" integrity="sha384-7VPbUDkoPSGFnVtYi0QogXtr74QeVeeIs99Qfg5YCF+TidwNdjvaKZX19NZ/e6oz" crossorigin="anonymous">

</script>

</body>

</html>

### Output Form:



### Output Courses List:

