

Week 6 - PHP & MySQL – Simple CRUD Application

Task Overview

You will build a **Student List** application. The application will store student records in a MySQL database and allow users to add, view, edit, and delete students.

Part 1: Database Setup (MySQL)

1. Create a database named **school_db**.
2. Create a table named **students** with the following fields:
 - 1 id – INT, Primary Key, Auto Increment
 - 2 name – VARCHAR(100)
 - 3 email – VARCHAR(100)
 - 4 course – VARCHAR(100)
3. Insert at least **5 sample student records** using SQL.

Part 2: Connecting PHP to MySQL

1. Create a file named **db.php** to store your database connection code.
2. Connect PHP to MySQL using **PDO or MySQLi**.
3. Display a simple message if the connection is successful or fails.

Part 3: CRUD Operations

Create: Create an HTML form to add a new student (name, email, course).

Read: Display all students in an HTML table.

Update: Add an Edit button to update student details.

Delete: Add a Delete button to remove a student record.

Part 4: Security

1. Use prepared statements for INSERT, UPDATE, and DELETE queries.
2. Do not write SQL queries directly using user input.