Assignment 3

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- 1. Create a database named KCA in Mysql, create a table called students, fields in the table should include, Reg_no, surname, Middle name and first name, course, age, guardian, Telno etc.
- 2. Connect the database to your website using php so that a student can input those details online
- 3. Create a query to display all the registered students

index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Assignment 3 2003944</title>
</head>
<body>
  <h1>Student Registration</h1>
  <form action="process_registration.php" method="post">
    <label for="reg no">Registration Number:</label>
    <input type="number" id="reg no" name="reg no" required><br><br></ri>
    <label for="surname">Surname:</label>
    <input type="text" id="surname" name="surname" required><br><br>
    <label for="middle_name">Middle Name:</label>
    <input type="text" id="middle_name" name="middle_name"><br><br></pr>
    <label for="first_name">First Name:</label>
    <input type="text" id="first_name" name="first_name" required><br><br>
    <label for="course">Course:</label>
    <input type="text" id="course" name="course" required><br><br><
    <label for="age">Age:</label>
    <input type="number" id="age" name="age" required><br><br>
    <label for="guardian">Guardian Name:</label>
    <input type="text" id="guardian" name="guardian" required><br>
    <label for="telno">Telephone Number:</label>
    <input type="tel" id="telno" name="telno" pattern="[0-9]{13}" required><br><br>
    <button type="submit">Register</button>
  </form>
  <h1>Display Students</h1>
  Click the button below to display all students
  <form action="display_students.php" method="post">
    <button type="submit">Get Details</button>
  </form>
</body>
```

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</html>
KCAdb.sql:
sql file to create the database, KCA
code:
CREATE DATABASE IF NOT EXISTS KCA;
USE KCA:
CREATE TABLE students (
  Reg_no INT PRIMARY KEY,
  surname VARCHAR(255),
  Middle_name VARCHAR(255),
  first_name VARCHAR(255),
  course VARCHAR(255),
  age INT,
  guardian VARCHAR(255),
  Telno VARCHAR(255)
);
process_registration.php :
php file to collect data from index.html and insert to the database.
Code:
<?php
include 'connect.php'; // Include the connection file
// Get form data
$reg_no = intval($_POST['reg_no']); // Ensure reg_no is an integer
$surname = mysqli_real_escape_string($conn, $_POST['surname']); // prevent SQL injection
$middle_name = mysqli_real_escape_string($conn, $_POST['middle_name']); // Sanitize
$first_name = mysqli_real_escape_string($conn, $_POST['first_name']); // Sanitize
$course = mysqli_real_escape_string($conn, $_POST['course']); // Sanitize
$age = intval($_POST['age']); // Ensure age is an integer
$guardian = mysqli_real_escape_string($conn, $_POST['guardian']); // Sanitize
$telno = mysqli real escape string($conn, $ POST['telno']); // Sanitize
// check if any required field is empty
```

```
if (empty($reg_no) || empty($surname) || empty($first_name) || empty($course) || empty($age) ||
empty($guardian) || empty($telno)) {
  echo "Please fill out all required fields.";
} else {
 // Insert data into the database
 $sql = "INSERT INTO students (Reg no, surname, middle name, first name, course, age, guardian,
Telno)
      VALUES (?, ?, ?, ?, ?, ?, ?, ?)";
 $statement = mysqli_prepare($conn, $sql); // Prepare statement
 if ($statement) {
   mysqli_stmt_bind_param($statement, "ssssssss", $reg_no, $surname, $middle_name, $first_name,
$course, $age, $guardian, $telno);
   if (mysqli_stmt_execute($statement)) {
      echo "Student registered successful!";
   } else {
      echo "Registration failed (" . mysqli_error($conn) . ").";
   mysqli_stmt_close($statement); // Close prepared statement
 } else {
   echo "Error: Statement preparation failed (" . mysqli_error($conn) . ").";
mysqli_close($conn); // Close connection
?>
connect.php:
php file to connect to the database.
Code:
<?php
$servername = "localhost";
$username = "root";
$password = "sintrix";
$dbname = "KCA";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection is successful
if ($conn->connect error) {
  die("Connection failed: " . $conn->connect_error);
```

```
else{
  echo "Connected successfully";
?>
display_students.php:
php file to display items in the database.
Code:
<?php
include 'connect.php';
$sql = "SELECT id, firstname, lastname FROM Students";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
 // output data of each row
 echo "IDName";
 while($row = $result->fetch_assoc()) {
  echo "".$row["id"]."".$row["firstname"]." ".$row["lastname"]." ";
 }
 echo "";
} else {
 echo "0 results";
$conn->close();
?>
```