**Assignment 3**

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**BSD**

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>

<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>

<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><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>

<p>Click the button below to display all students</p>

<form action="display\_students.php" method="post">

<button type="submit">Get Details</button>

</form>

</body>

</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 "<table><tr><th>ID</th><th>Name</th></tr>";

while($row = $result->fetch\_assoc()) {

echo "<tr><td>".$row["id"]."</td><td>".$row["firstname"]." ".$row["lastname"]."</td></tr>";

}

echo "</table>";

} else {

echo "0 results";

}

$conn->close();

?>