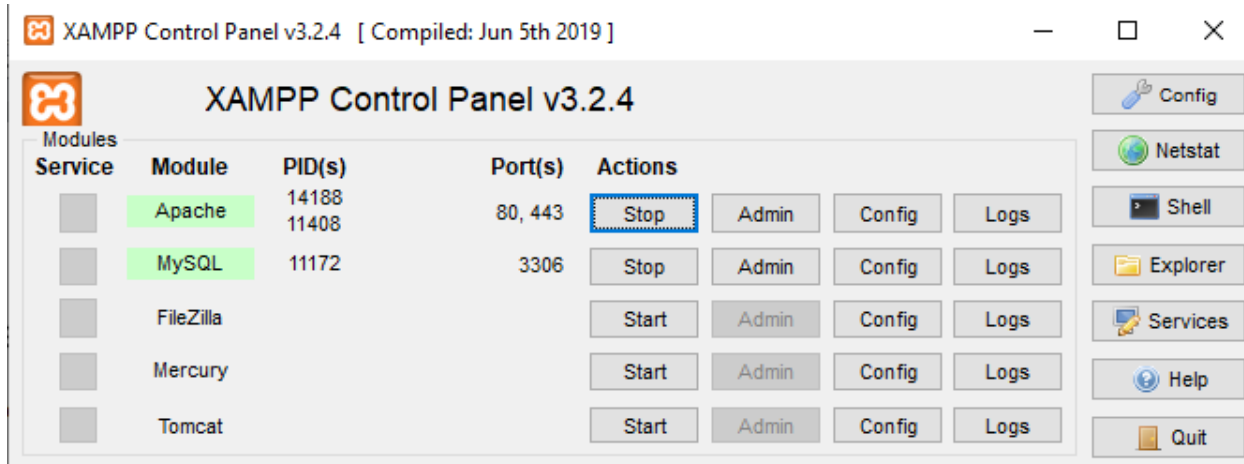


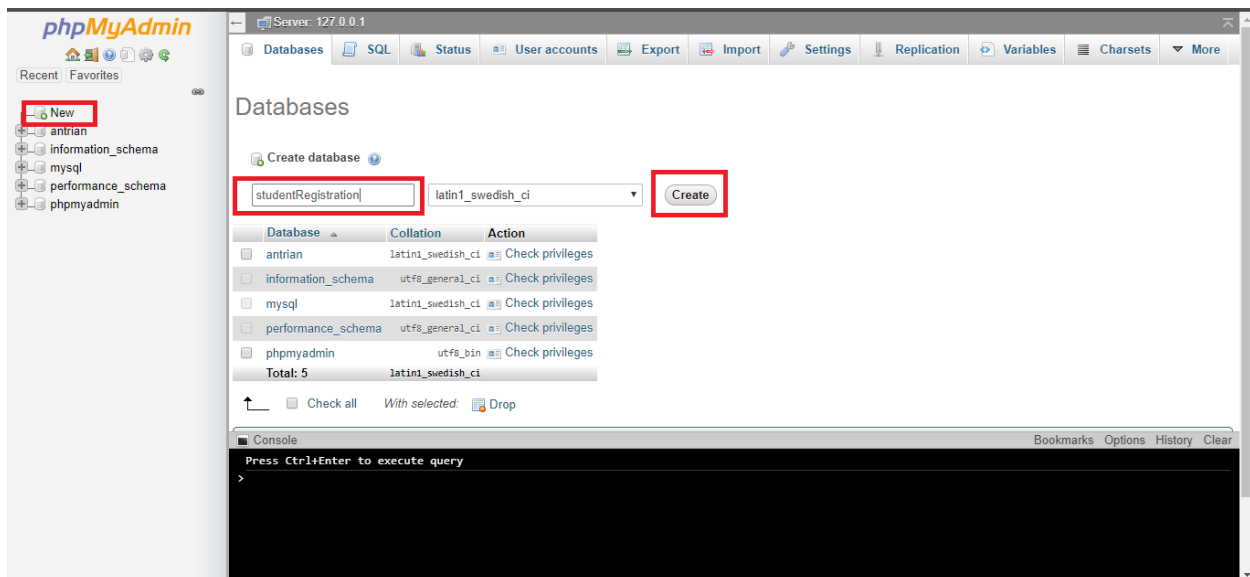
# Local CRUD using PHP with MySQL

Greetings! Right now we are going to learn how to connect PHP to MySQL and make a simple registration CRUD app.

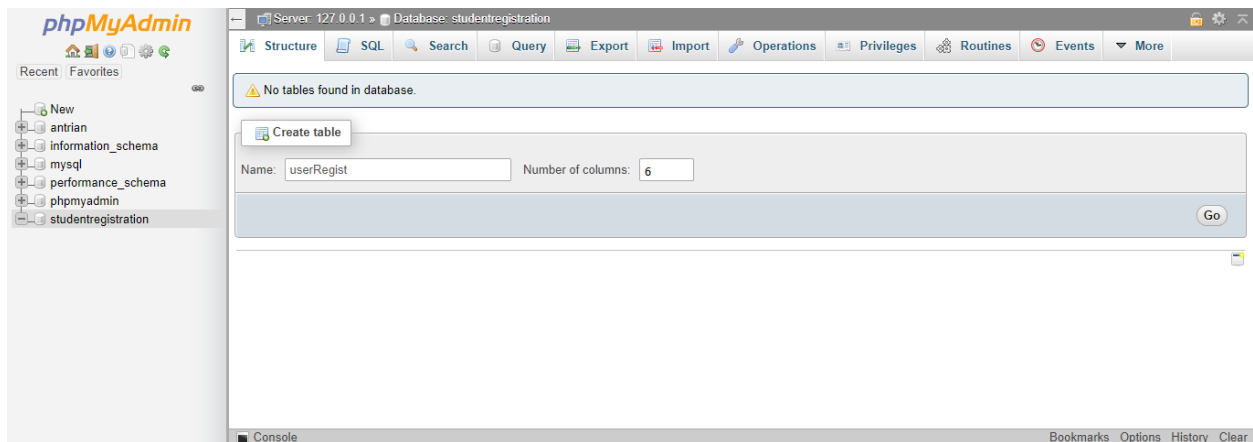
First, open your text editor and XAMPP control panel and start **apache & MySQL**.



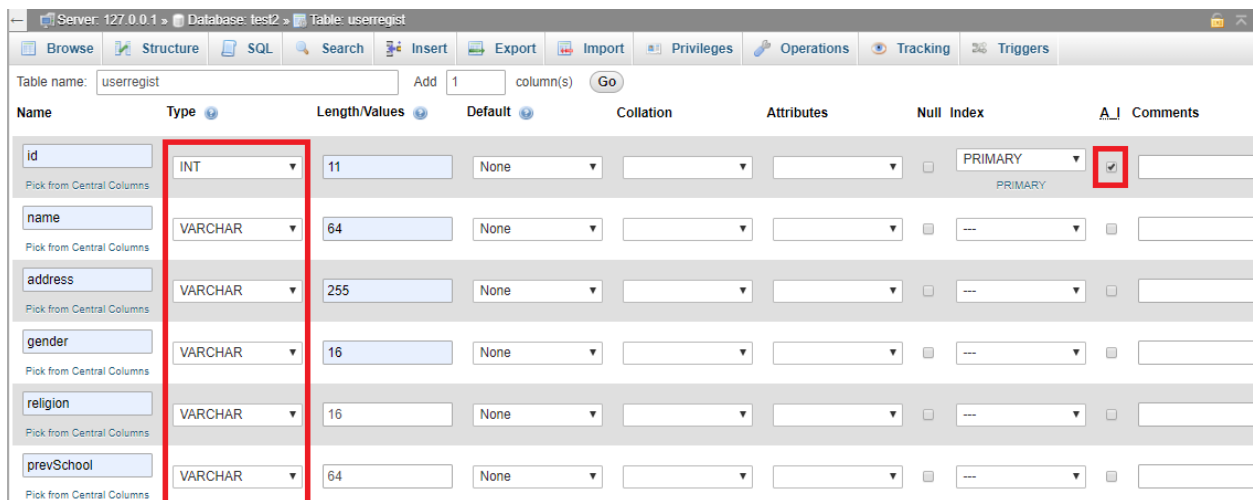
Next, open your browser and visit **localhost/phpmyadmin** and then create a new database called **studentRegistration**.



Create a table named **userRegist** with 6 columns



Then fill the names with these values, don't forget to CHECKLIST the A\_I as shown on picture to set the id to **primary key**.



After that, scroll down and click save button.

Now navigate to XAMPP directory (usually **C:\xampp\htdocs**) before we proceed. Make a folder called **crud** in the directory.

Now let's play around with the PHP form files. Open up your text editor, make a new file called **index.php** INSIDE XAMPP's htdocs directory and write down these syntax.

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Student Registration Form | Coding School</title>
5  </head>
6  <body>
7      <header>
8          <h3>Student Registration Form</h3>
9          <h1>Coding School</h1>
10     </header>
11
12     <h4>Menu</h4>
13     <nav>
14         <ul>
15             <li><a href="regist-form.php">Registration</a></li>
16             <li><a href="user-list.php">User List</a></li>
17         </ul>
18     </nav>
19
20
21     <?php if(isset($_GET['status'])): ?>
22     <p>
23         <?php
24             if($_GET['status'] == 'success'){
25                 echo "Registration success!";
26             } else {
27                 echo "Registration failed!";
28             }
29         ?>
30     </p>
31     <?php endif; ?>
32 </body>
33 </html>
```

Now let's create our config file to connect to the database (MySQL). Create a file named **config.php** and write these down :

```
1  <?php
2
3  $server = "localhost";
4  $user = "root";
5  $password = "";
6  $database = "studentregistration";
7
8  $db = mysqli_connect($server, $user, $password, $database);
9
10 if( !$db ){
11     die("Failed to connect to DB: " . mysqli_connect_error());
12 }
13
14 ?>
```

Now you can check the current output of your. Open **localhost/crud** from your browser.

## Student Registration Form

# Coding School

### Menu

- [Registration](#)
- [User List](#)

So you might notice it will give error when you click those two buttons right? Now our job is to make it works! Let's keep going.

Make a file called **regist-form.php** and throw down this code into it :

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <title>          HTML Form          </title>
5  </head>
6
7  <body>
8    <header>
9      <h3>          HTML FORM          </h3>
10   </header>
11   <form action="regist-process.php" method="POST">
12     <fieldset>
13       <p>
14         <label for="name">name: </label>
15         <input type="text" name="name" />
16       </p>
17       <p>
18         <label for="address">address: </label>
19         <textarea name="address"></textarea>
20       </p>
21       <p>
22         <label for="gender">Gender: </label>
23         <label><input type="radio" name="gender" value="Male">Male</label>
24         <label><input type="radio" name="gender" value="Female">Female</label>
25       </p>
26       <p>
27         <label for="religion">religion: </label>
28         <select name="religion">
29           <option>Islam</option>
30           <option>Christian</option>
31           <option>Hindu</option>
32           <option>Budha</option>
33           <option>Atheis</option>
34         </select>
35       </p>
36       <p>
37         <label for="prevSchool">Previous school: </label>
38         <input type="text" name="prevSchool" />
39       </p>
40       <p>
41         <input type="submit" value="submit" name="regist" />
42       </p>
43     </fieldset>
44   </form>
45 </body>
46 </html>
```

And now let's make the form process file. Make a file called **regist-process.php** and write these syntax :

```
1  <?php
2  include("config.php");
3  // check if regist button is clicked or not
4  if(isset($_POST['regist'])){
5
6      // get data from our form
7      $name = $_POST['name'];
8      $address = $_POST['address'];
9      $maleFemale = $_POST['gender'];
10     $religion = $_POST['religion'];
11     $prevSchool = $_POST['prevSchool'];
12
13     // make the query
14     $sql = "INSERT INTO userRegist (name, address, gender, religion, prevSchool)
15     VALUE ('$name', '$address', '$maleFemale', '$religion', '$prevSchool')";
16     $query = mysqli_query($db, $sql);
17
18     // check if the query success
19     if( $query ) {
20         // if success, go back to index.php with status=success
21         header('Location: index.php?status=success');
22     } else {
23         // if not success, go back to index.php with status=failed
24         header('Location: index.php?status=failed');
25     }
26
27 } else {
28     die("Access denied...");
29 }
30 ?>
```

Next, to show our registered user, make a file called **user-list.php** :

```
1  <?php include("config.php"); ?>
2  <!DOCTYPE html>
3  <html>
4  <head>
5      <title>New Student Registration | Coding School</title>
6  </head>
7  <body>
8      <header>
9          <h3>Registered Users</h3>
10     </header>
11     <nav>
12         <a href="regist-form.php">[+] Add new</a>
13     </nav>
14     <br>
15     <table border="1">
16     <thead>
17         <tr>
18             <th>no</th>
19             <th>name</th>
20             <th>address</th>
21             <th>gender</th>
22             <th>religion</th>
23             <th>previous school</th>
24             <th>action</th>
25         </tr>
26     </thead>
27     <tbody>
28         <?php
29         $sql = "SELECT * FROM userRegist";
30         $query = mysqli_query($db, $sql);
31         while($user = mysqli_fetch_array($query)){
32             echo "<tr>";
33
34             echo "<td>".$user['id']. "</td>";
35             echo "<td>".$user['name']. "</td>";
36             echo "<td>".$user['address']. "</td>";
37             echo "<td>".$user['gender']. "</td>";
38             echo "<td>".$user['religion']. "</td>";
39             echo "<td>".$user['prevSchool']. "</td>";
40
41             echo "<td>";
42             echo "<a href='edit-form.php?id=".$user['id']."'>Edit</a> | ";
43             echo "<a href='delete.php?id=".$user['id']."'>Delete</a>";
44             echo "</td>";
45
46             echo "</tr>";
47         }
48         ?>
49
50     </tbody>
51 </table>
52
53     <p>Total: <?php echo mysqli_num_rows($query) ?></p>
54 </body>
55 </html>
```

Now, we can check who has registered. But we can't yet edit, nor delete the data. We need to make a file named **edit-form.php** and put these into it :

```
1  <?php
2  include("config.php");
3  if( !isset($_GET['id']) ){
4      // if there is no id in query string
5      header('Location: user-list.php');
6  }
7
8  // getting id from query string
9  $id = $_GET['id'];
10
11 // make a query to get data
12 $sql = "SELECT * FROM userRegist WHERE id=$id";
13 $query = mysqli_query($db, $sql);
14 $user = mysqli_fetch_assoc($query);
15
16 // check if data is not found
17 if( mysqli_num_rows($query) < 1 ){
18     die("Data not found...");
19 }
20 ?>
21 <!DOCTYPE html>
22 <html>
23 <head>
24     <title>User edit form | SMK Coding</title>
25 </head>
26 <body>
27     <header>
28         <h3>Edit form</h3>
29     </header>
30
31     <form action="edit-process.php" method="POST">
32         <fieldset>
33             <input type="hidden" name="id" value="<?php echo $user['id'] ?>" />
34             <p>
35                 <label for="name">Name: </label>
36                 <input type="text" name="name" value="<?php echo $user['name'] ?>" />
37             </p>
38             <p>
39                 <label for="address">Address: </label>
40                 <textarea name="address"><?php echo $user['address'] ?></textarea>
41             </p>
42             <p>
43                 <label for="gender">Gender: </label>
44                 <?php $maleFemale = $user['gender']; ?>
45                 <label>
46                     <input type="radio" name="gender" value="male" <?php echo ($maleFemale == 'male') ? "checked": "" ?>>Male
47                 </label>
48                 <label>
49                     <input type="radio" name="gender" value="female" <?php echo ($maleFemale == 'female') ? "checked": "" ?>>Female
50                 </label>
51             </p>
52             <p>
53                 <label for="religion">Religion: </label>
54                 <?php $religion = $user['religion']; ?>
55                 <select name="religion">
56                     <option <?php echo ($religion == 'Islam') ? "selected": "" ?>>Islam</option>
57                     <option <?php echo ($religion == 'Christian') ? "selected": "" ?>>Christian</option>
58                     <option <?php echo ($religion == 'Hindu') ? "selected": "" ?>>Hindu</option>
59                     <option <?php echo ($religion == 'Budha') ? "selected": "" ?>>Budha</option>
60                     <option <?php echo ($religion == 'Atheis') ? "selected": "" ?>>Atheis</option>
61                 </select>
62             </p>
63             <p>
64                 <label for="prevSchool">Previous school: </label>
65                 <input type="text" name="prevSchool" value="<?php echo $user['prevSchool'] ?>" />
66             </p>
67             <p>
68                 <input type="submit" value="save" name="save" />
69             </p>
70         </fieldset>
71     </form>
72 </body>
```



Before we proceed, we need to create a file process for the edit file. Create a file named **edit-process.php** :

```
1  <?php
2  include("config.php");
3  // check if save is clicked or not
4  if(isset($_POST['save'])){
5      // getting data from our form
6      $id = $_POST['id'];
7      $name = $_POST['name'];
8      $address = $_POST['address'];
9      $maleFemale = $_POST['gender'];
10     $religion = $_POST['religion'];
11     $prevSchool = $_POST['prevSchool'];
12
13     // making a query update
14     $sql = "UPDATE userRegist
15     SET name='$name', address='$address', gender='$maleFemale', religion='$religion', prevSchool='$prevSchool'
16     WHERE id=$id";
17     $query = mysqli_query($db, $sql);
18
19     if( $query ) {
20         // if success
21         header('Location: user-list.php');
22     } else {
23         // if fails
24         die("Failed to save change(s)...");
25     }
26 } else {
27     die("Access denied...");
28 }
29 ?>
```

Lastly, make a **delete.php** file so we can complete the delete function

```
1  <?php
2
3  include("config.php");
4
5  if( isset($_GET['id']) ){
6
7      // get id from query string
8      $id = $_GET['id'];
9
10     // making a query to delete
11     $sql = "DELETE FROM userRegist WHERE id=$id";
12     $query = mysqli_query($db, $sql);
13
14     // checking if query is success
15     if( $query ){
16         header('Location: user-list.php');
17     } else {
18         die("Failed to delete...");
19     }
20
21 } else {
22     die("Access denied...");
23 }
24
25 ?>
```

Now you've made your simple CRUD application working! What's next? Either play around with PHP + MySQL or you can start making other applications! Good luck 😊

Here's the final result :

## Registration Form

Name:

Address:

Gender:

☐ Male

☐ Female

Religion:

Islam ▼

Previous school:

submit

## Registred Users

[\[+\] Add new](#)

no	name	address	gender	religion	previous school	action
1	Brian Harianja	Indonesia	Male	Christian	SMK Krian 1	<a href="#">Edit</a>   <a href="#">Delete</a>

Total: 1

## Student Registration Form

# Coding School

## Menu

- [Registration](#)
- [User List](#)

Registration success!

### Edit form

Name:

Address:

Gender: ☒ Male ☐ Female

Religion:

Previous school:

*Regards, Brian*