Connect Database With PHP

CSE311 Lab
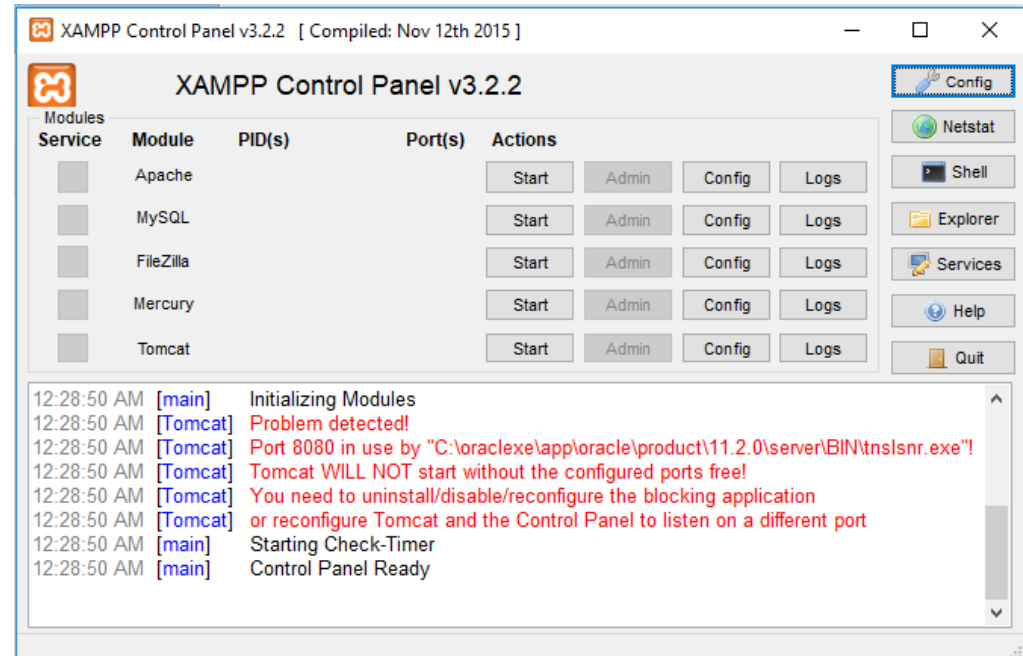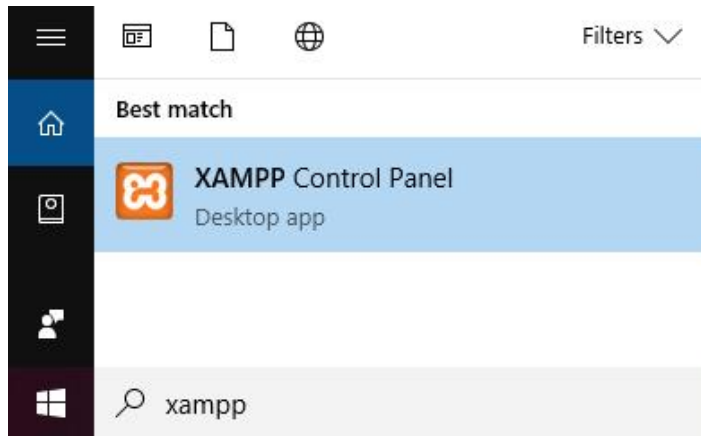
Muyeed Ahmed

PART 1: MYSQL
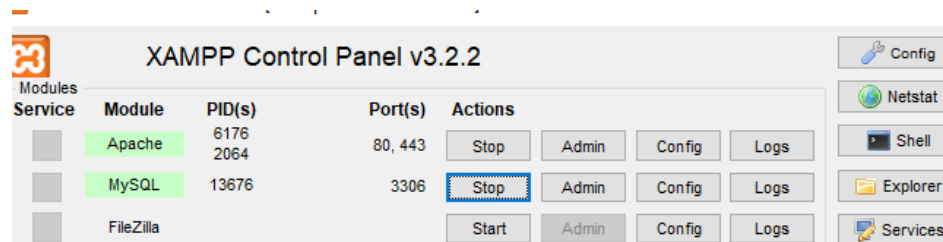
Step 1:
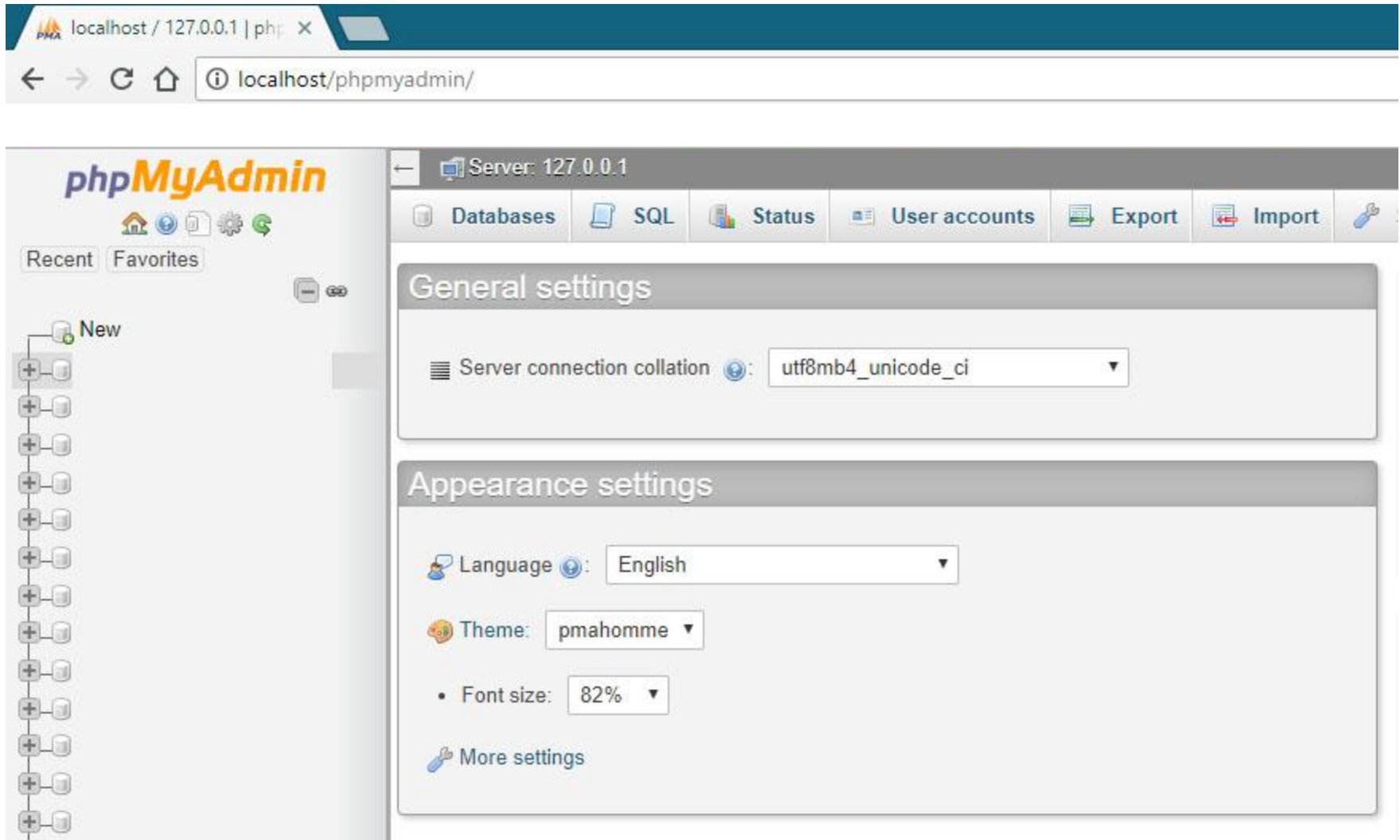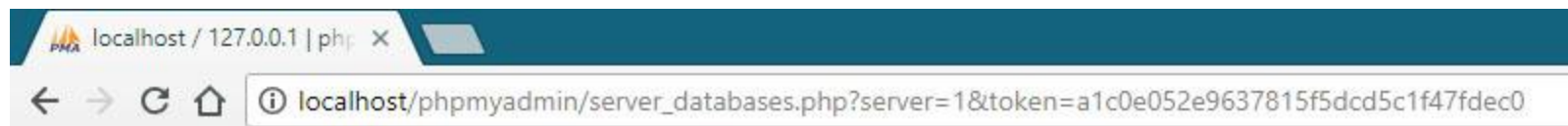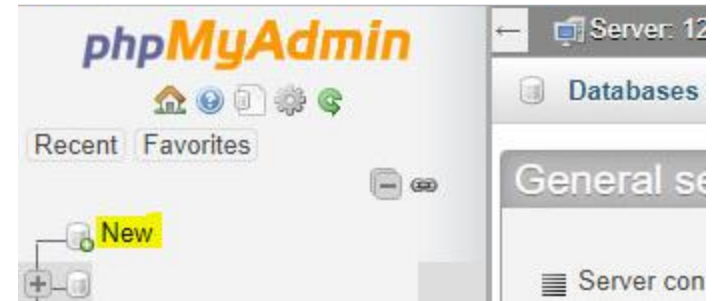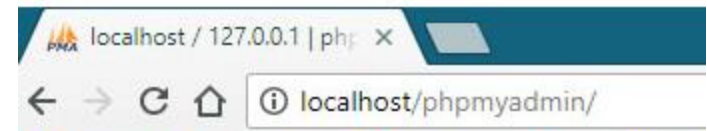
CREATE DATABASE

Open XAMPP Control Panel

Start Apache and MySQL

Go to "localhost/phpmyadmin/"

Create new Database

PART 1: MYSQL

Step 2:

CREATE TABLE

Create Table Using GUI

	Structure		SQL		Search		Query		Export		Import		Operations		Privileges		Routines		Events	▼ Mo

⚠ No tables found in database.

🗔 **Create table**

Name: `student`   Number of columns: `4`

Go

Add Table Attributes

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A_I	Comments
STUDENT_ID	INT ▼		None ▼	▼	▼	☐	PRIMARY ▼	☐	
Pick from Central Columns							PRIMARY		
FIRST_NAME	VARCHAR ▼	30	None ▼	▼	▼	☑	--- ▼	☐	
Pick from Central Columns									
LAST_NAME	VARCHAR ▼	30	None ▼	▼	▼	☐	--- ▼	☐	
Pick from Central Columns									
DOB	DATE ▼		None ▼	▼	▼	☐	--- ▼	☐	
Pick from Central Columns									

Table comments:

Collation:

Storage Engine: InnoDB ▼

PARTITION definition:

Preview SQL   Save

Create Table using query

- Go to SQL
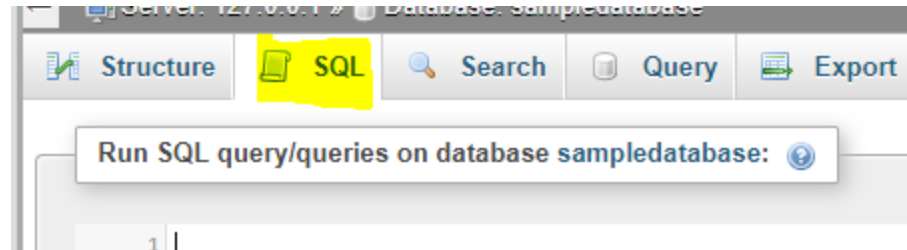
- And Write the following query

  CREATE TABLE students (

  STUDENT_ID INT PRIMARY KEY,

  FIRST_NAME VARCHAR(30),

  LAST_NAME VARCHAR(30) NOT NULL,

  DOB TIMESTAMP

)

Table Structure

PART 2: PHP

Step 1:

CREATE PHP FILES

Go to "C:\xampp\htdocs" and create a folder
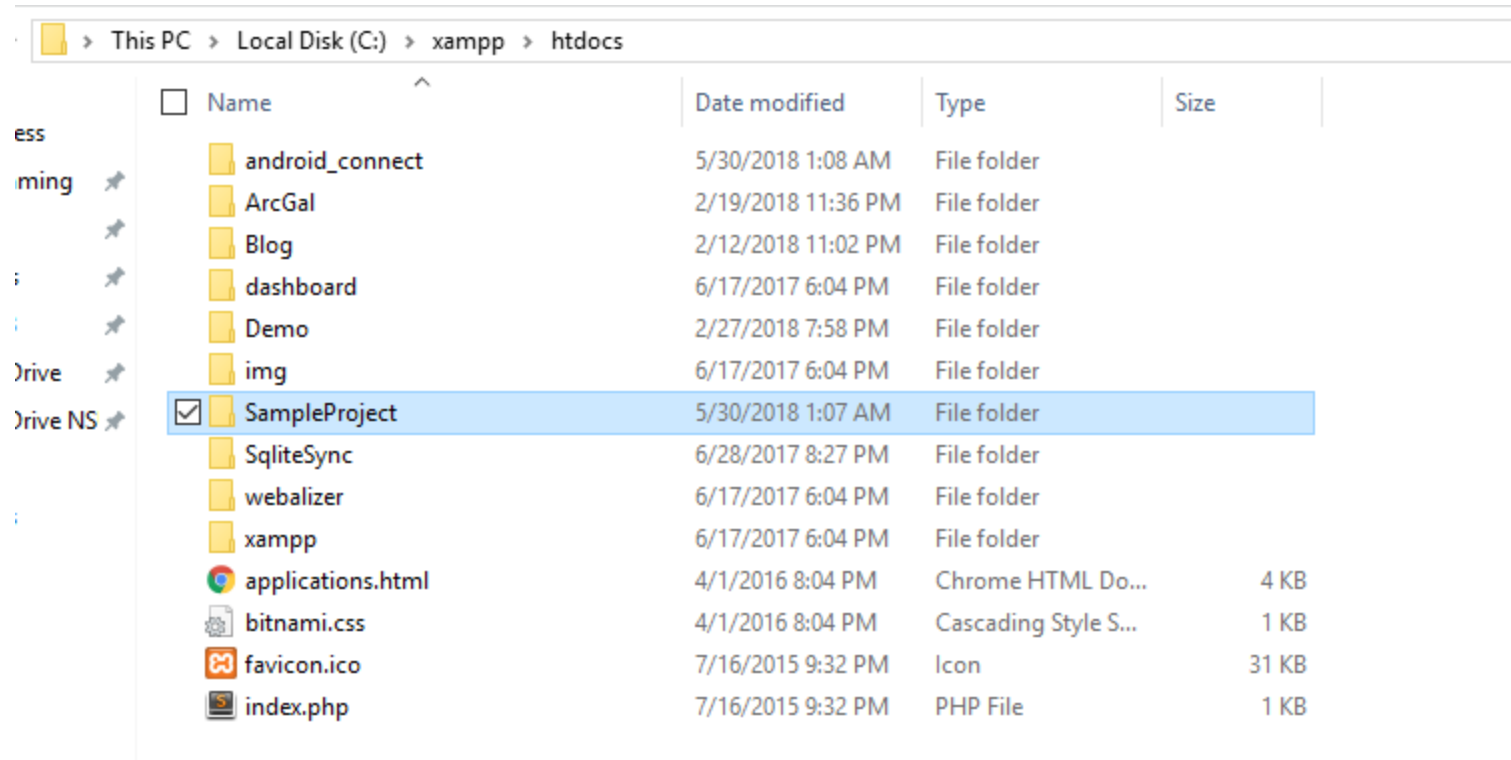
In that folder create the PHP files

Step 1:

ESTABLISH CONNECTION

Create "connection.php" file in the project folder. And write the following code.

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$database = "sampledatabase";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $database);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

When we use XAMPP the server name and user name is "localhost" and "root" by default, and password is null. The database name should be the one you gave while creating the database.

To test if this works go to "localhost/SampleProject(name of the project)/connection.php "

localhost/SampleProject/connection.php

Connected successfully
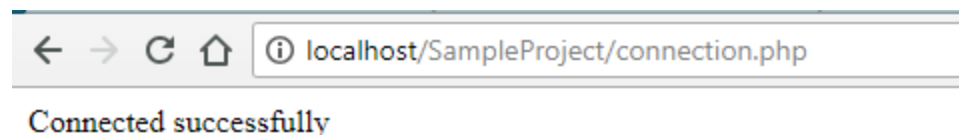
Step 2:

CREATE FORM, STORE DATA AND RETRIEVE DATA

HTML code to create form

```
<form action="savedata.php" method="post">
            Student ID: <input type="number" name="s_id"><br><br>
            First Name: <input type="text" name="fn"><br><br>
            Last Name: <input type="text" name="ln"><br><br>
            Date of Birth: <input type="date" name="dob"><br><br>
            <input type="submit" name="submit">
</form>
```

Output:

PHP code to save data in the database

```php
<?php
    if (isset($_POST['submit'])) {
        include_once "connection.php";
        $student_id = $_POST['s_id'];
        $first_name = $_POST['fn'];
        $last_name = $_POST['ln'];
        $date_of_birth = $_POST['dob'];
        $query = "INSERT INTO student (student_id, first_name, last_name, dob)
            VALUES ('".$student_id."', '".$first_name."', '".$last_name."',
                '".$date_of_birth."')";

        if ($conn->query($query) === TRUE) {
            echo "New record created successfully";
        } else {
            echo "Error: ";
        }
        $conn->close();
    }
?>
```
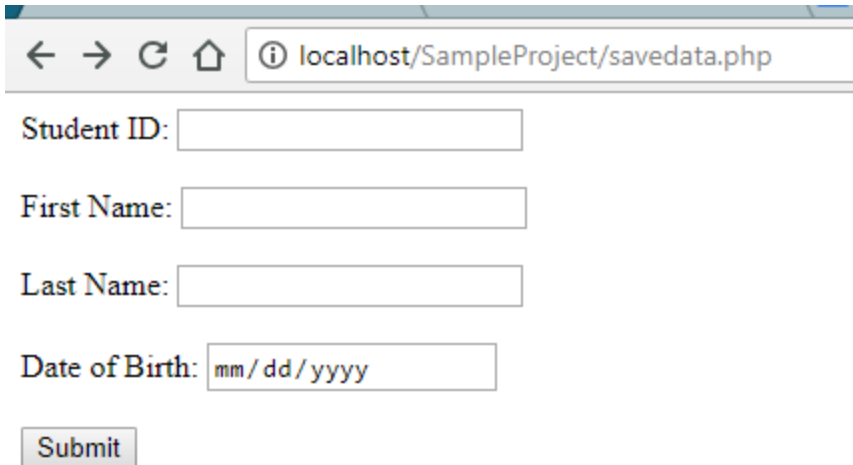
PHP code to retrieve data

```php
<?php
        include_once "connection.php";

        $sql = "SELECT student_id, first_name, last_name, dob FROM student";
        $result = $conn->query($sql);

        if ($result->num_rows> 0) {
                while ($row=$result->fetch_assoc()) {
                        echo "Student ID:" . $row['student_id']." - First Name: " .
                        $row["first_name"]. " - Last Name: ". $row["last_name"]. " - Date of
                        birth: ". $row["dob"]. "<br>";
                }
        } else {
                echo "0 results";
        }
        $conn->close();
?>
```