

Laboratory Activity

Web Systems and Technology Midterm

Procedure:

Step 1: Install a local server environment

Since phpMyAdmin requires a web server (Apache), a database server (MariaDB/MySQL), and PHP to run, you will need to install a bundled software package.

Popular options include:

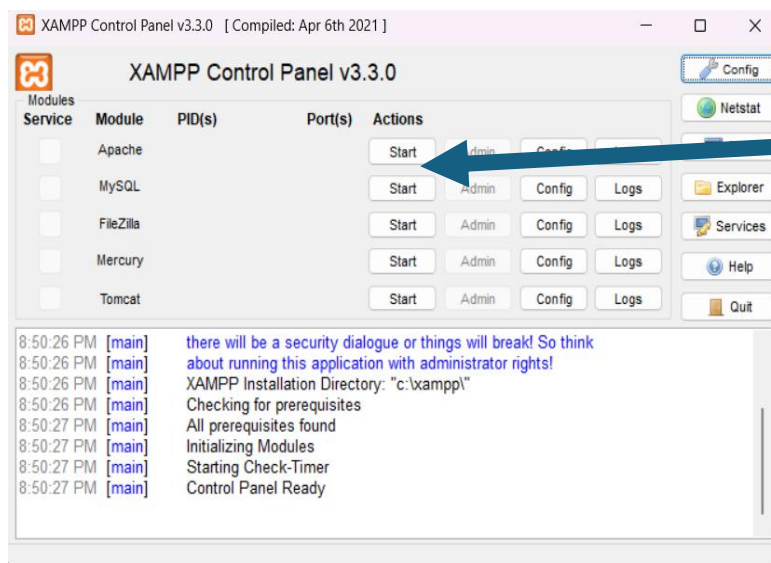
- **XAMPP:** Works on Windows, macOS, and Linux.
- **WAMP:** For Windows users.
- **MAMP:** For macOS users.

Step 2: Start the required services

After installing your server environment, you need to open its control panel and manually start the services.

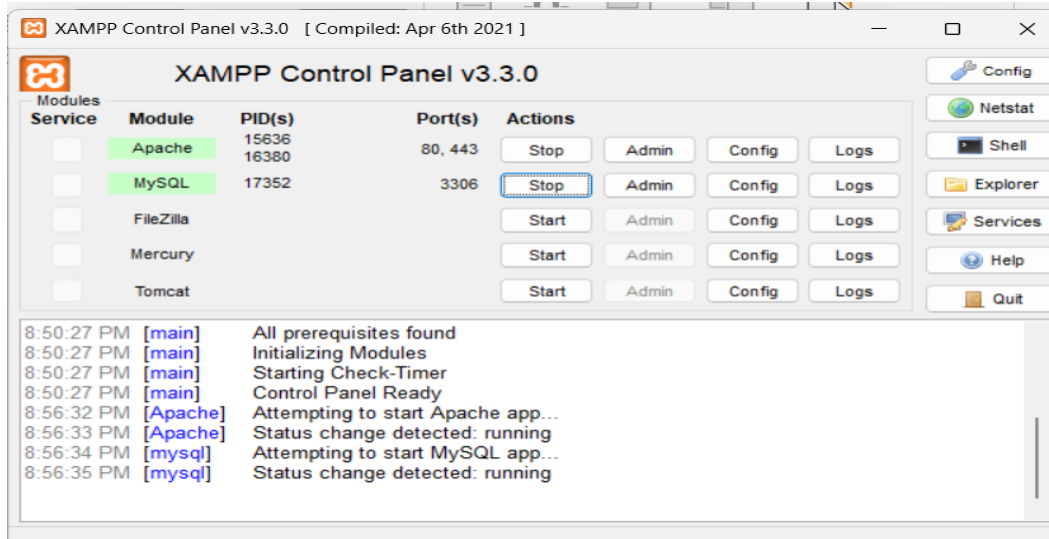
For XAMPP, this means:

1. Open the **XAMPP Control Panel**.
2. Click the **Start** button next to **Apache**.
3. Click the **Start** button next to **MySQL**.
4. Ensure that both modules are running successfully.



Make sure to click the Start button to open the Apache and MySQL

- Once it green your server is now running



- Make sure to check the ports of Apache and MySQL as follows

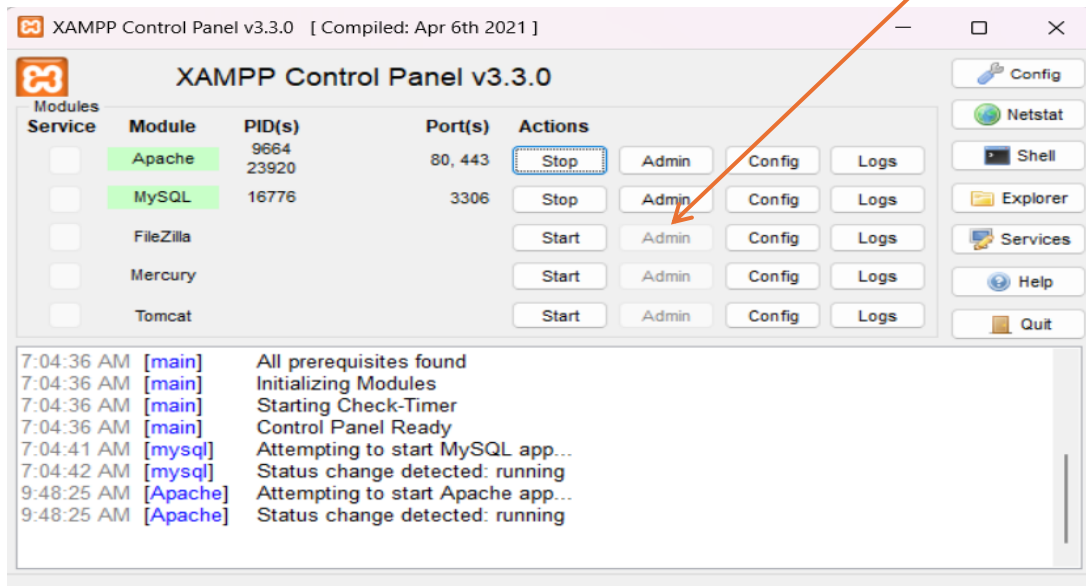
Module	PID(s)	Port(s)
Apache	26368 3028	80, 443
MySQL	25340	3306

- You are now ready to test your server

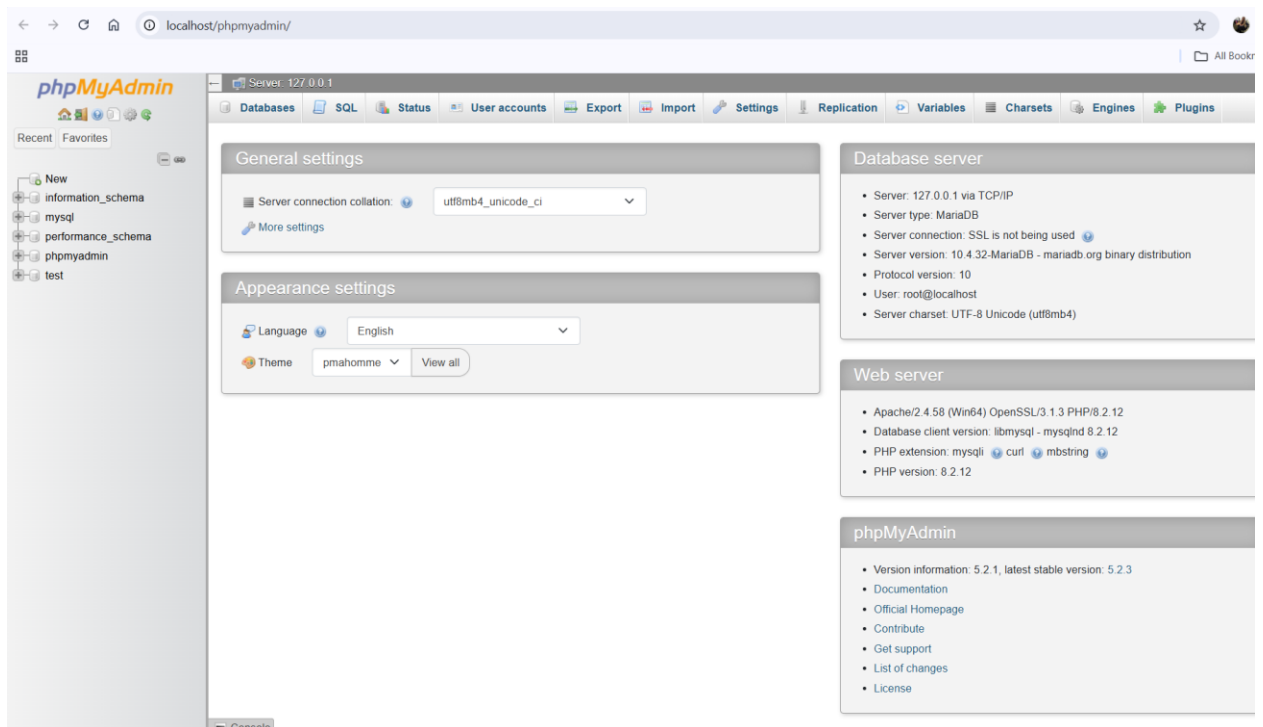
Step 3: Access phpMyAdmin

Once your servers are running, you can access the phpMyAdmin interface through your web browser.

1. Open your web browser.
2. Type `http://localhost/phpmyadmin` in the address bar and press Enter.
3. Log in with your credentials. If you are using a new installation, the default username is often **root** with **no password**.



Then it will redirect you to the admin panel



Step 4: Plan your database schema

Before creating your database, consider what information you need to store and how it should be organized. Proper planning helps avoid structural problems later on.

A simple planning process involves:

- **Identifying entities:** Figure out the main "things" your database needs to track, like Users, Products, or Orders.

- **Defining attributes:** Decide on the specific data points for each entity. For a Users table, this might include first_name, last_name, and email.
- **Specifying primary keys:** Choose a unique identifier for each table, such as a user ID. This is typically an auto-incrementing integer.
- **Establishing relationships:** Determine how your tables will connect to each other. For example, the Orders table might link to a Users table.

This time:

- I want you to explore or try to create a sample database as your activity for today without connecting it to php (or to your website)
- Name it on the desired table name.
- Screenshot all your works and output in this document and sent it through your github (filename: Activity 3 -10/30) this is a different filename from your Activity 2.

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C334 - IT

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

XAMPP Control Panel v3.3.0

Service	Module	PID(s)	Port(s)	Actions
<input type="checkbox"/>	Apache	26240 23152	80, 443	Stop Admin Config Logs
<input type="checkbox"/>	MySQL	23756	3306	Stop Admin Config Logs
<input type="checkbox"/>	FileZilla			Start Admin Config Logs
<input type="checkbox"/>	Mercury			Start Admin Config Logs
<input type="checkbox"/>	Tomcat			Start Admin Config Logs

12:53:31 PM [main] All prerequisites found

12:53:31 PM [main] Initializing Modules

12:53:31 PM [main] Starting Check-Timer

12:53:31 PM [main] Control Panel Ready

12:53:36 PM [Apache] Attempting to start Apache app...

12:53:37 PM [Apache] Status change detected: running

12:53:37 PM [mysql] Attempting to start MySQL app...

12:53:38 PM [mysql] Status change detected: running

localhost/phpmyadmin/

phpMyAdmin

Server: 127.0.0.1

Databases SQL Status User accounts Export Import Settings More

Recent Favorites

- New
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

General settings

Server connection collation: utf8mb4_unicode_ci

More settings

Appearance settings

Language: English

Theme: pmahomme View all

Database server

- Server: 127.0.0.1 via TCP/IP
- Server type: MariaDB
- Server connection: SSL is not being used
- Server version: 10.4.32-MariaDB - mariadb.org binary distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

- Apache/2.4.58 (Win64) OpenSSL/3.1.3 PHP/8.2.12
- Database client version: libmysql - mysqlnd 8.2.12
- PHP extension: mysqli curl mbstring
- PHP version: 8.2.12

phpMyAdmin

Recent

Favorites

New

activity3_db

information_schema

mysql

performance_schema

phpmyadmin

test

Server: 127.0.0.1 > Database: activity3_db

Structure

SQL

Search

Query

Export

Import

Operations

Privileges

More

Table name: students Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes
id	INT	11	None		
Pick from Central Columns					
first_name	VARCHAR	50	None		
Pick from Central Columns					
last_name	VARCHAR	50	None		
Pick from Central Columns					
email	VARCHAR		None		
Pick from Central Columns					

Table comments:

Collation:

Storage Engine:

PARTITION definition:

Partition by:

Partitions:

Preview SQL

Save

localhost says

Please enter a valid length!

OK