

Laboratory Activity

Web Systems and Technology

Midterm

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Activity 3

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:

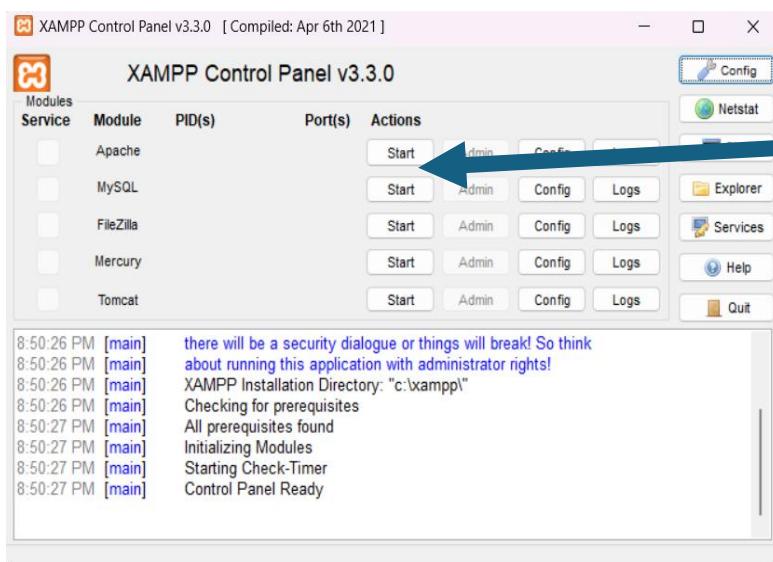
- **XAMPP**: Works on Windows, macOS, and Linux.
- **WAMP**: For Windows users.
- **MAMP**: For macOS users.

Step 2: Start the required services

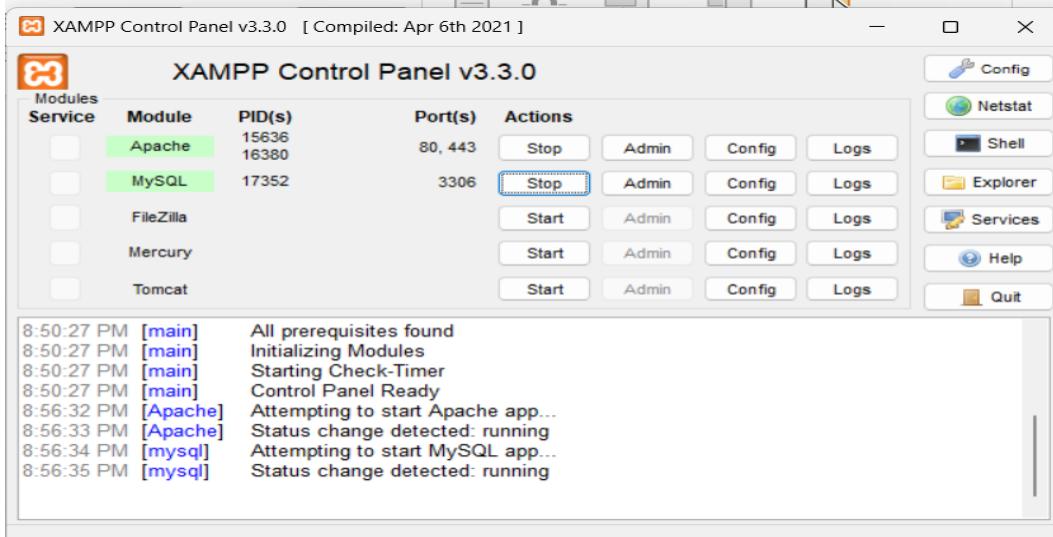
After installing your server environment, you need to open its control panel and manually start the services.

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.



- Once it green your server is now running



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

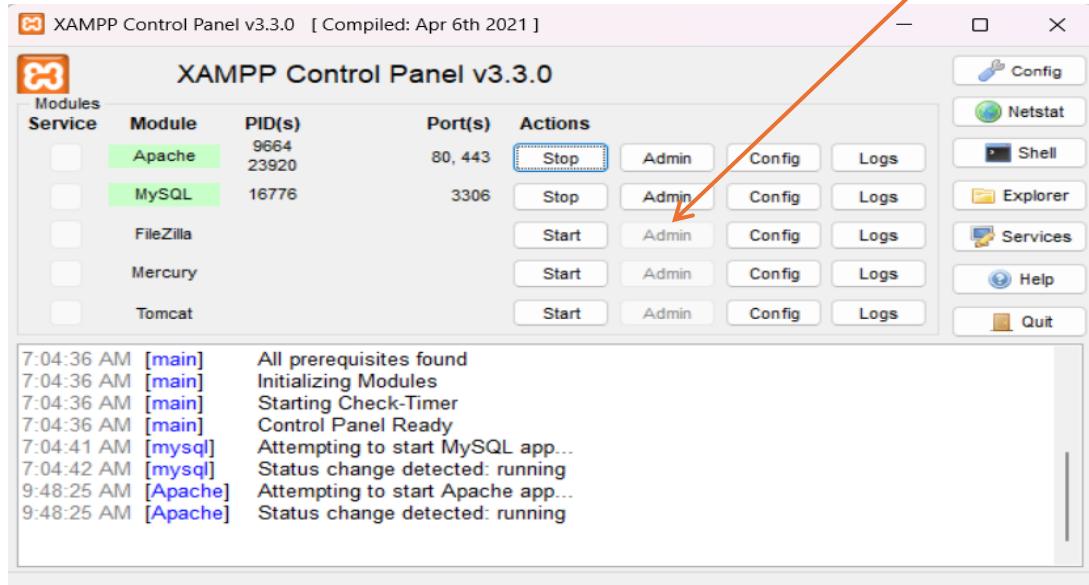
Module	PID(s)	Port(s)
Apache	26368 3028	80, 443
MySQL	25340	3306

- Your 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.

- Open your web browser.
- Type <http://localhost/phpmyadmin> in the address bar and press Enter.
- 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

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases: New, information_schema, mysql, performance_schema, phpmyadmin, and test. The main area has several tabs: Databases, SQL, Status, User accounts, Export, Import, Settings, Replication, Variables,Charsets, Engines, and Plugins. The current tab is 'Server 127.0.0.1'. The page is divided into sections: 'General settings' (Server connection collation: utf8mb4_unicode_ci), 'Appearance settings' (Language: English, Theme: pmahomme), 'Database server' (Server details: 127.0.0.1 via TCP/IP, MariaDB, SSL not used, version 10.4.32, user root@localhost, UTF-8 Unicode), 'Web server' (Apache/2.4.58, PHP/8.2.12, MySQL 8.2.12, PHP 8.2.12), and 'phpMyAdmin' (Version 5.2.1, latest stable 5.2.3, links to Documentation, Official Homepage, Contribute, Get support, List of changes, License).

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.

Answer:

users table contains the columns **id**, **name**, **email**, **password_hash**, **role**, and **registration_date**. It is located inside the fridget_db database, which is the project I created before.

The screenshot shows the MySQL Workbench interface with the following details:

- Server:** 127.0.0.1
- Database:** fridget_db
- Table:** users
- Table Structure:**
 - Columns: id, name, email, password_hash, role, registration_date
 - Data rows (9 total):

id	name	email	password_hash	role	registration_date
1	John Doe	john doe96@email.com	\$2y\$10\$8m8mGQsnmOKaukLyA6CbuefMuoWD6VafuY1VmkyFz1o...	user	2025-05-31 16:07:28
2	Marc Dave	marc dave123@email.com	\$2y\$10\$LQnOZWmTulkTXKZg77r5uBNhFXfhTlJCXJ8UAwMftQ...	user	2025-05-31 17:22:01
3	Dave Marc	Admin1@fridgetsys.com	\$2y\$10\$MifOjm6xLd9xszWEXYPOA.iumk1appbRct1SPigblx...	admin	2025-05-31 20:37:06
4	Aleeya Cruz	aleeyacruz@email.com	\$2y\$10\$qG3OGuMSywXPnjcVeWLnLobYYVDYV3zOixmJG0dDe1O...	user	2025-06-04 15:26:40
6	Sarah Thompson	sarah.thompson@email.com	\$2y\$10\$EqQlb0HJPc3PnRxWii2BeB0xPzk5ZmN7PbS2Vj3tr...	user	2025-06-08 18:26:56
7	Daniel Reyes	daniel.reyes@email.com	\$2y\$10\$CB7BioBrfJClotlYtmUxjeNgPvwk5AFClYLIJUct...	user	2025-06-08 18:30:55
8	Chloe Martin	chloe.martin@email.com	\$2y\$10\$tekBFEG0b.HQ7h.yzyTrU.mHczgBz4YNBm6mlL1acRf...	user	2025-06-08 18:34:30
10	Emily Navarro	emily.navarro@email.com	\$2y\$10\$4xKDlrOvPgHEnO4IAQRrZetHT07DToz81DvhLBtjW6G...	user	2025-06-09 17:16:44
12	Marie Ann	marieann1@email.com	\$2y\$10\$8A5V4FpnHgdrzBUR4kt4tuDI9RriGcVhDNn6dWjfKE...	user	2025-06-21 10:17:53
- Operations:** Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Triggers.
- Query results operations:** Print, Copy to clipboard, Export, Display chart, Create view.
- Console:** A text input field for running commands.