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Problem Statement 20
Implement MYSQL database connectivity with PHP.
Steps for Ubuntu
//////Install MySQL:
sudo apt update
sudo apt install mysql-server
///////Secure MySQL Installation:
sudo mysql_secure_installation
//////Install PHP and PHP MySQL Extension:
sudo apt install php php-mysql
//////Configure MySQL (if needed): Start the MySQL service:
sudo systemctl start MySQL
////Log in to MySQL and create a test database and user:
sudo mysql -u root -p
////Inside MySQL:
CREATE DATABASE testdb;
CREATE USER 'testuser'@'localhost' IDENTIFIED BY 'password';
GRANT ALL PRIVILEGES ON testdb.* TO 'testuser'@'localhost';
FLUSH PRIVILEGES;
EXIT;
///////Write PHP Code for MySQL Connectivity: Create a PHP file (dbconnect.php)
with the following code:
<?php
$servername = "localhost";
$username = "testuser";
$password = "password";
$dbname = "testdb";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
///// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
echo "Connected successfully";
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//////Test PHP Code: Place dbconnect.php in the web server directory:
sudo mv dbconnect.php /var/www/html/
///////Restart the web server:
sudo systemctl restart apache2
/////Open a browser and go to http://localhost/dbconnect.php to see if it displays
Connected successfully.
Steps for Windows
Install XAMPP:
Download and install XAMPP (which includes MySQL and PHP) on Windows.
Start Apache and MySQL:
Open the XAMPP Control Panel and click "Start" next to both Apache and MySQL.
Create a MySQL Database and User:
Open phpMyAdmin by visiting http://localhost/phpmyadmin in your browser.
In phpMyAdmin, create a new database (testdb), and a user (testuser) with a
password (password).
Grant the user all privileges on the testdb database.
Write PHP Code for MySQL Connectivity:
///////open a text editor and create a PHP file (dbconnect.php) with the
following code:
<?php
$servername = "localhost";
$username = "testuser";
$password = "password";
$dbname = "testdb";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
   die("Connection failed: " . $conn->connect_error);
echo "Connected successfully";
////////Test PHP Code:
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Save dbconnect.php in the htdocs folder, typically found at C:\xampp\htdocs\. Open a browser and go to http://localhost/dbconnect.php.
If the connection is successful, you should see Connected successfully displayed on the page.