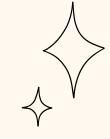
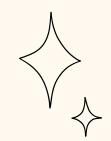


# PHP CONNECT TO DATABASE





DIAN X BADONG



PHP is a widely used server-side scripting language that powers many dynamic websites and applications. One of its core functionalities is the ability to interact with databases, particularly MySQL. This capability allows web applications to manage data dynamically, such as handling user accounts, storing content, or processing transactions.



When developing dynamic web applications, databases play an essential role in storing user information, product details, or any other data that needs to be accessed, modified, or updated. PHP offers multiple methods for connecting to databases, with MySQL being the most commonly used.

## A Revelence &

- 1.Database Server: The database management system (DBMS) where the database is hosted, such as MySQL, MariaDB, or others. 2.Hostname: The address of the database server (e.g., "localhost" for a local server or an IP address/domain for remote servers).
- 3.Username: The login credential used to access the database.
- 4.Password: The password associated with the username.
- 5.Database Name: The specific database to which you want to connect.

# Methods to Connect PHP to a MySQL Database

PHP offers two modern approaches to establish a connection with a MySQL database: MySQLi and PDO.

MySQL is a database management system that helps store, organize, and retrieve data efficiently.

PDO is a tool in PHP that lets your PHP scripts connect and interact with a database like MySQL.

# Purpose of Connecting PHP to a MySQL Database

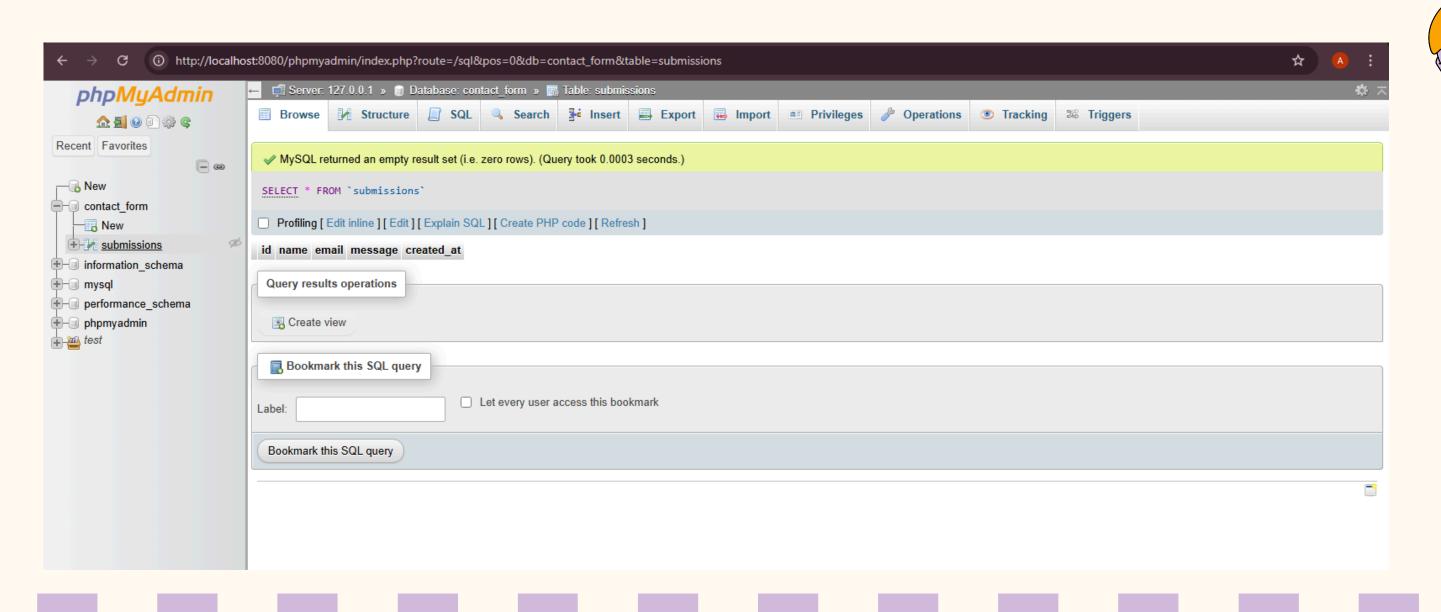
- 1. Dynamic Data Management: To fetch, store, or update data for applications like e-commerce platforms, blogs, or user dashboards.
- 2. Efficient Data Handling: Databases provide structured storage for large datasets.
- 3.Interactive Features: Enables features like login systems, product searches, or user profiles.

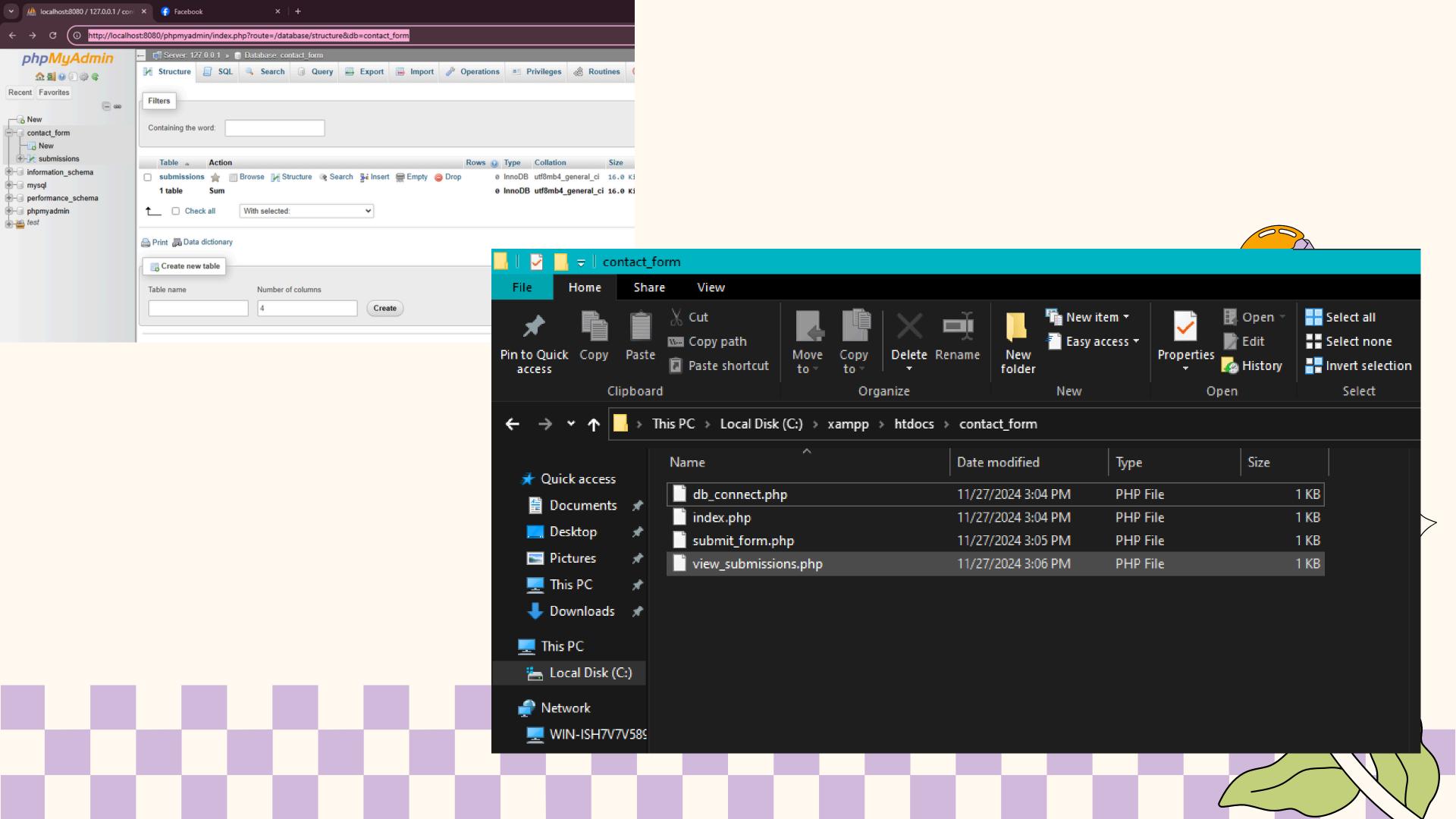
## Advantages of PHP-MySQL Integration

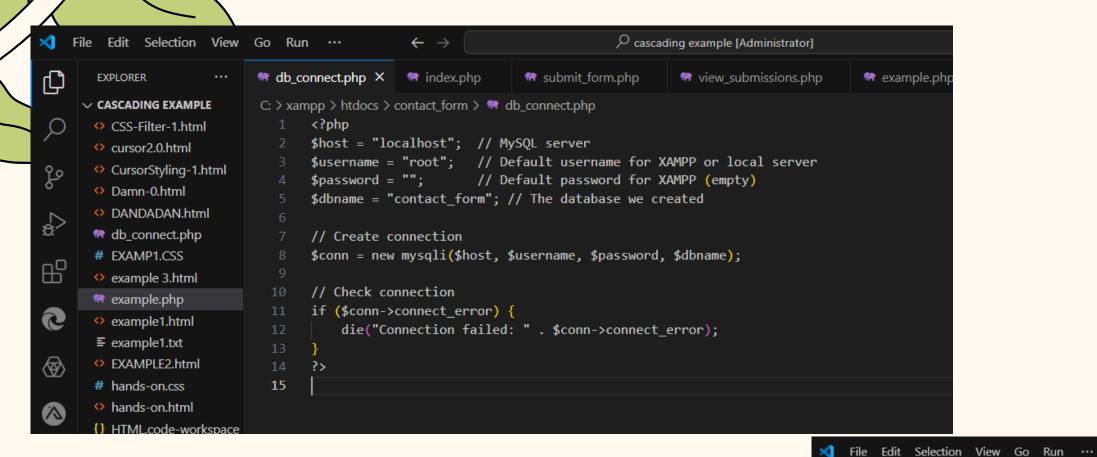
- 1. Dynamic Content: Enables real-time updates and personalized user experiences.
- 2. Security: Supports features like prepared statements to protect against SQL injection.
- 3. Scalability: Efficiently handles growing data and user demands.
- 4.Flexibility: Suitable for diverse applications, from small blogs to large e-commerce sites.

### Connecting the PHP to Database example

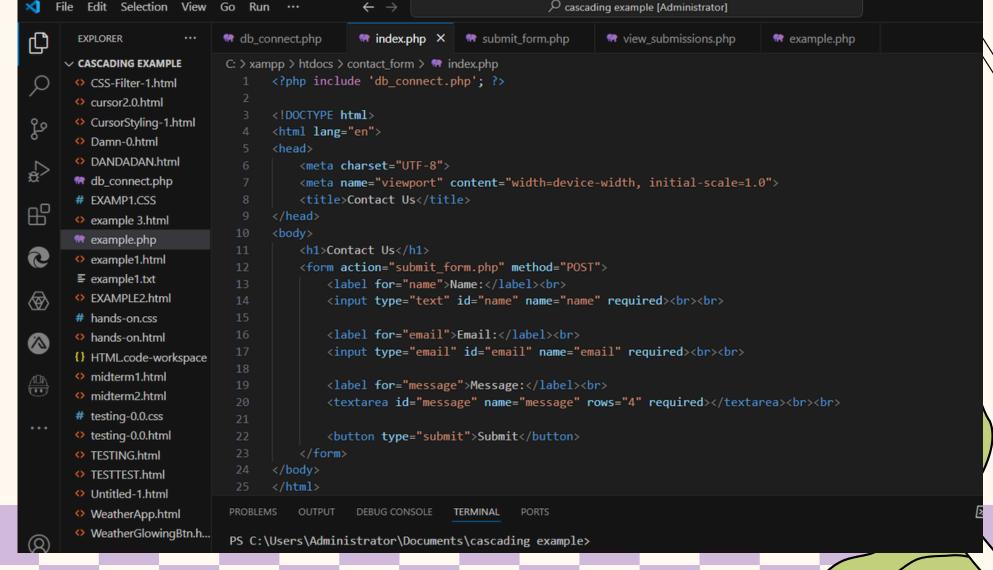
Create the Database in phpMyAdmin or using MySQL CLI, create a database for storing the information:

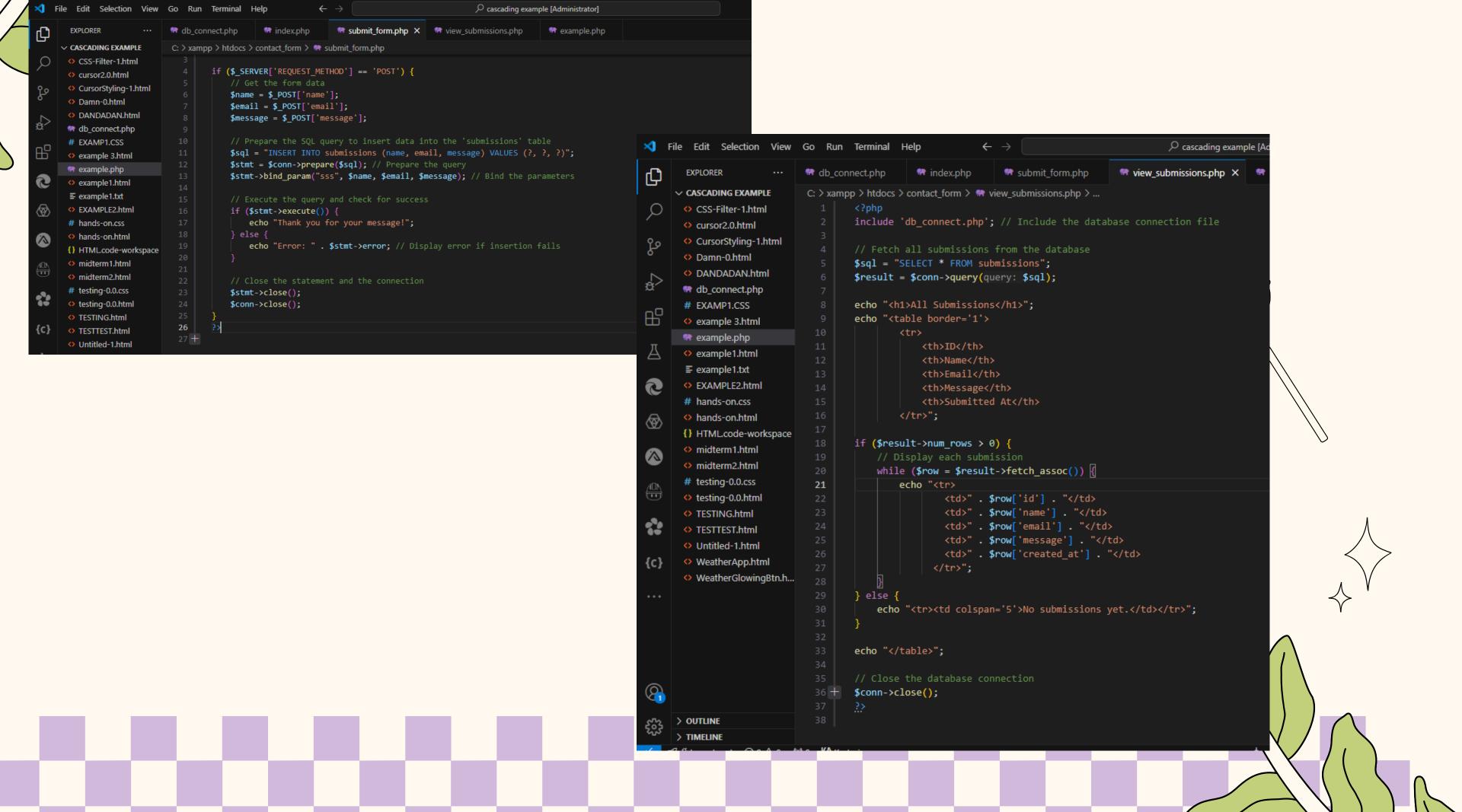




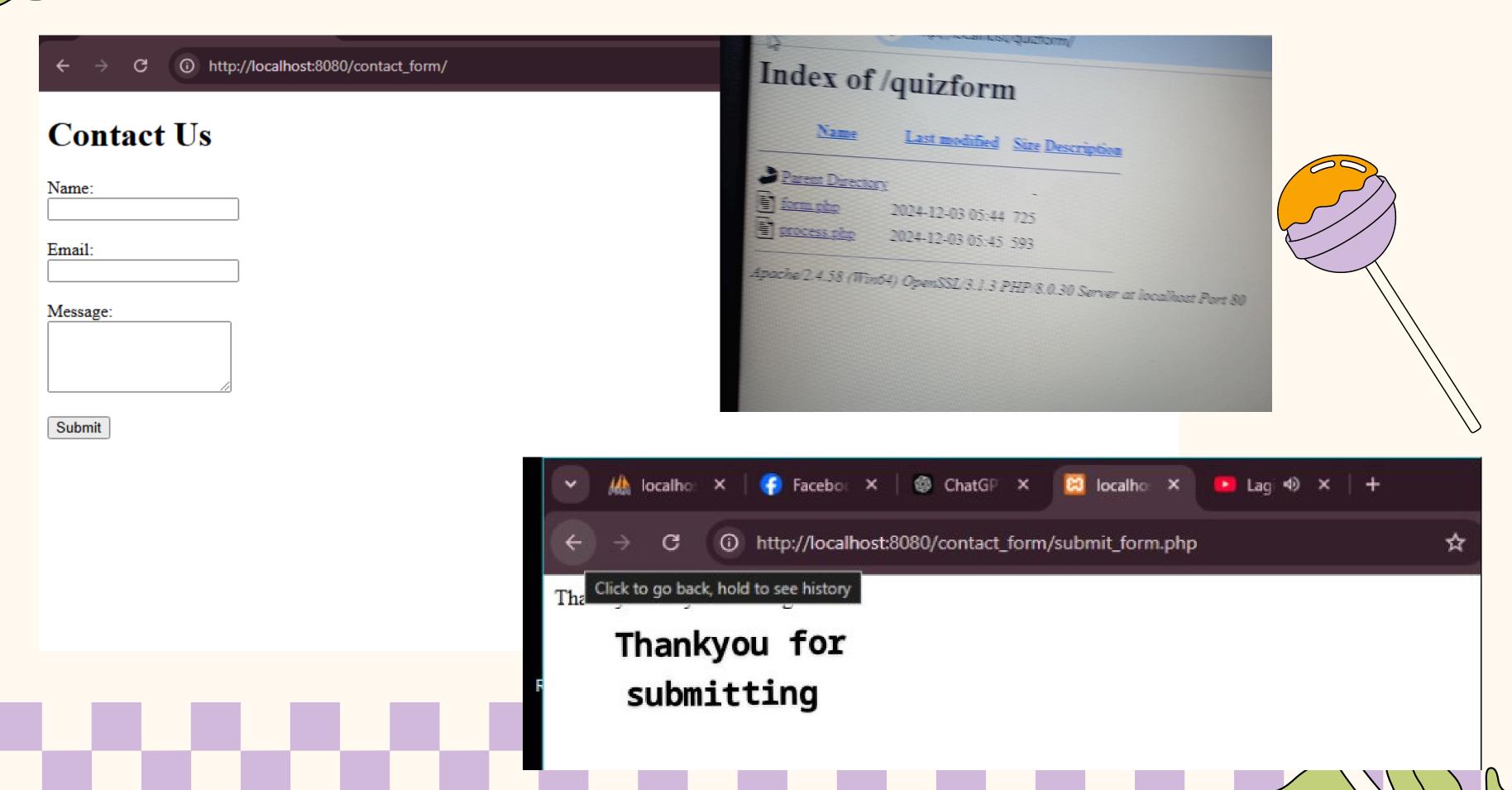








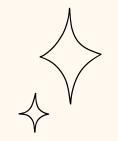
#### OUTCOME



#### Step 4: Test the Application

- 1. Place all files (db\_connect.php, index.php, submit\_rsvp.php, guest\_list.php) in the root directory of your server (e.g., htdocs for XAMPP).
- 2. Open a browser and navigate to:
  - http://localhost/index.php to access the RSVP form.
  - http://localhost/contact\_form.php to .

Test the form.



## CONCLUSION

Connecting PHP to a database is an essential step in building dynamic, data-driven websites. The process is straightforward and can be achieved using MySQLi or PDO, both of which offer secure ways to manage database interactions. In this report, we discussed the basic concepts of database connection, provided an example of how to connect PHP to a MySQL database, and demonstrated how to retrieve and display data. With this knowledge, developers can create powerful and scalable web applications that rely on databases for storing and managing content.

