

Lecture: The Bridge Between Website and Database (Part 1)

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I've titled this lecture "The Bridge Between Website and Database" to provide a clear representation of the MySQLi_Connect concept and facilitate understanding. This title succinctly describes the role of MySQLi_Connect, which acts as a bridge connecting a website to a database.

Introduction to MySQLi_Connect

MySQLi_Connect is a vital function in PHP used for connecting to a MySQL database server. It serves as a bridge between PHP and the database, enabling you to perform various operations, including retrieving, updating, and deleting data from the database.

MySQLi_Connect Parameters

When using MySQLi_Connect, you need to provide four essential parameters:

1. **Server:** This parameter specifies the MySQL server to which you want to connect. In most cases, this is set to "localhost" when working with a local database server.
2. **Username:** You should provide the MySQL username, which is typically "root" by default.
3. **Password:** The MySQL password associated with the username. It's often set to null for the default root user.
4. **Database (Optional):** This parameter is optional and allows you to specify the name of the database you want to connect to. If not provided, you can specify the database later in your PHP script.

Using MySQLi_Connect

To establish a connection to the MySQL server using MySQLi_Connect, you'll use the following code:

```
$con = mysqli_connect(server, username, password, database);
```

- ``server`` should be set to your MySQL server's address, typically "localhost."
- ``username`` is the MySQL username, usually "root."
- ``password`` is the MySQL password associated with the username.
- ``database`` (optional) is the name of the database you wish to connect to.

Forms and HTTP Methods

In web development, forms are a common way to collect and send data to the server. There are four main HTTP methods used with forms, but we'll focus on two of them:

1. **POST:** The POST method is used when you want to send data to a server for processing. For example, when submitting a form to add data to a database.
- 2.
3. **GET:** The GET method is used to request data from a server. It is often used when retrieving data from a database.

MySQLi_Query

After successfully connecting to the database using `MySQLi_Connect`, you can execute queries using the `MySQLi_Query` function. It takes two parameters:

- ``con``: The database connection established with `MySQLi_Connect`.
- ``sql``: The SQL query you want to execute.

Conclusion

PHP is a versatile language for backend development and can be used in various applications, including web development, API creation, and integration with other technologies like Python, Flutter, and Laravel. Understanding `MySQLi_Connect` is fundamental when working with databases in PHP, and it opens up opportunities for building dynamic and interactive web applications.

PHP serves as a strong foundation for developers and is an essential skill for working with various web technologies. Whether you're developing websites, web applications, or APIs, PHP is a valuable tool in your programming arsenal. Embrace the power of PHP and explore its vast capabilities in the world of web development.