Absolutely! Here's a clear **line-by-line explanation** of your MySQLi database connection code:

<?php

✅ **Starts PHP code** — everything inside this block will be interpreted by the PHP engine.

$servername = "localhost";

🖥️ **Defines the server name** — localhost means the MySQL server is running on the same machine as the web server (typical in XAMPP setups).

$username = "root";

👤 **Username for the MySQL connection** — root is the default admin user in XAMPP.

$password = "";

🔐 **Password for the MySQL user** — by default, root has **no password** in XAMPP (but you should set one in production).

$dbname = "iphs\_campus\_db";

🗃️ **Name of the database** you want to connect to — in this case, your IPHS campus management system.

$conn = new mysqli($servername, $username, $password, $dbname);

🔗 **Creates a new MySQLi connection** using the object-oriented style.  
This line attempts to establish a connection with the MySQL database using the provided credentials and DB name.

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

⚠️ **Error handling** — this checks if the connection failed.

* If connect\_error is not empty, the script **stops (die())** and displays an error message.
* This is essential for debugging during development.

$conn->set\_charset("utf8");

🌐 **Sets the character encoding** of the database connection to **UTF-8**, which is:

* Great for handling special characters (e.g., Arabic, Chinese, accented letters)
* Prevents data corruption due to encoding mismatch

?>

✅ **Ends the PHP block**

**🧠 Summary:**

This code:

* Connects your app to the MySQL database
* Handles connection errors
* Ensures proper character encoding

Would you like me to show how to safely query this database using prepared statements (e.g., for login or content fetching)?