PHP (Hypertext Preprocessor) is a popular server-side scripting language that can be used to create dynamic web pages. It allows web developers to add functionality to their websites and interact with databases, file systems, and other servers. Here's an example of how PHP can help in designing a webpage:

Let's say you want to display a list of articles on your website. You could create a static HTML page with the article titles and links, but this would require you to manually update the page each time you add a new article. With PHP, you can create a dynamic page that automatically generates the article list based on the contents of a database.

Here's some example code:

PHP

```php
<?php
// Connect to database
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

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

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Query database for articles
$sql = "SELECT * FROM articles";
$result = $conn->query($sql);
```

```
// Display article list
if ($result->num_rows > 0) {
    while($row = $result->fetch_assoc()) {
        echo "<a href='article.php?id=" . $row["id"] . "'>" .
$row["title"] . "</a><br>";
    }
} else {
    echo "No articles found";
}

// Close database connection
$conn->close();
?>
```

In this code, we first connect to a MySQL database using the mysqli class. We then query the database for all articles and loop through the results, outputting each article title as a hyperlink to the article page. The article ID is passed as a parameter in the URL to the article page, allowing the page to dynamically display the correct article based on the ID.

This is just a simple example, but it shows how PHP can be used to create dynamic web pages that can automatically update and interact with databases.

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