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<?php
// Handle AJAX Request
if ($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['ajax'])) {
    $name = htmlspecialchars(trim($_POST['name']));

    if (!empty($name)) {
        echo "Hello, " . $name . "! Welcome to the AJAX world.";
    } else {
        echo "Please enter a valid name.";
    }
    exit; // Stop further output
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
    <title>AJAX with PHP - Combined Code</title>
    <script>
        function sendData() {
            const name = document.getElementById("name").value;
            const xhr = new XMLHttpRequest();

            xhr.open("POST", "", true); // same file
            xhr.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");

            xhr.onreadystatechange = function () {
                if (xhr.readyState === 4 && xhr.status === 200) {
```

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        document.getElementById("response").innerHTML = xhr.responseText;
    }
};

    xhr.send("ajax=1&name=" + encodeURIComponent(name));
}
</script>
</head>
<body>
    <h2>Enter Your Name:</h2>
    <input type="text" id="name" />
    <button onclick="sendData()">Submit</button>

    <div id="response" style="margin-top: 20px; font-weight: bold;"></div>
</body>
</html>
```

Output:

# Enter Your Name: