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MODUL 11 PEMROGRAMAN BERBASIS WEB

Pengenalan AJAX dan JSON

Source code: <https://github.com/afrzl/Pemrograman-Berbasis-Web/blob/679b7769f7643be352912b492e5b2a1030cd5b14/P11>

1. Membuat Aplikasi AJAX Sederhana

Source Code:

a. showtime.html

```
<!DOCTYPE html>
<html lang="en-ID">
  <head>
    <title>Ajax Demonstration</title>
    <meta charset="utf-8" />
  </head>
  <style>
    .displaybox {
      display: table-cell;
      vertical-align: middle;
      width: 250px;
      height: 40px;
      background-color: #ffffff;
      border: 2px solid #000000;
      padding: 10px;
      font: 1.5em normal verdana, helvetica, arial, sans-
serif;
    }
  </style>
  <script>
    var ajaxRequest

    function ajaxResponse() {
      // check to see if we're done
      if (ajaxRequest.readyState != 4) {
        return
      } else {
        // check to see if successful
        if (ajaxRequest.status == 200) {
          var plholder = document.getElementById('showtime')
          plholder.innerHTML = ajaxRequest.responseText
        } else {
          alert('Request failed: ' + ajaxRequest.statusText)
        }
      }
    }

    function getServerTime() {
      ajaxRequest = new XMLHttpRequest()
```

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```
var svcUrl = 'telltme.php'
ajaxRequest.onreadystatechange = ajaxResponse
ajaxRequest.open('GET', svcUrl)
ajaxRequest.send(null)
}

// Write a function to auto-update the time
function autoUpdateTime() {
    setInterval(getServerTime, 1000)
}
</script>

<body onload="autoUpdateTime()">
    <h1>Ajax Demonstration</h1>
    <h2>Getting the server time without refreshing the
page</h2>
    <form>
        <input type="button" value="Get Server Time"
onclick="getServerTime()" />
    </form>
    <br />
    <div id="showtime" class="displaybox"></div>
</body>
</html>
```

b. telltme.php

```
<?php
date_default_timezone_set('Asia/Jakarta');
echo date('Y-m-d H:i:s');
```

Output:

Ajax Demonstration
Getting the server time without refreshing the page
<input type="button" value="Get Server Time"/>
2024-05-27 15:24:26

2. Memproses data JSON dari API

Source Code:

```
<?php
//menggunakan file get contents
$data = file_get_contents('https://reqres.in/api/users?page=1');
var_dump($data);

//menggunakan curl
echo '<br/><br/>Menggunakan cURL<br/>';
$ch = curl_init();
```

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```
curl_setopt($ch, CURLOPT_URL,
'https://reqres.in/api/users?page=1');
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
$output = curl_exec($ch);
curl_close($ch);
echo $output;
// $data = json_decode($output, true);
// echo '<br/><br/>';
// var_dump($data);

$parse_data = json_decode($data, true);
echo '<br/><br/>';
var_dump($parse_data);
echo '<br/><br/>';
?>
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>php11A</title>
  <style>
    table,
    th,
    td {
      padding: 10px;
      border: 1px solid black;
      border-collapse: collapse;
    }
  </style>
</head>

<body>
  <table>
    <thead>
      <tr>
        <th>ID</th>
        <th>Email</th>
        <th>First Name</th>
        <th>Last Name</th>
        <th>Avatar</th>
      </tr>
    </thead>
    <tbody>
      <?php foreach ($parse_data['data'] as $value) { ?>
        <tr>
          <td><?= $value['id'] ?></td>
          <td><?= $value['email'] ?></td>
          <td><?= $value['first_name'] ?></td>
```

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```
<td><?=$value['last_name'] ?></td>
<td></td>
</tr>
<?php } ?>
</tbody>
</table>
</body>
</html>
```







Output:

```
string(996) "1"page":1,"per_page":6,"total":12,"total_pages":2,"data":[{"id":1,"email":"george.bluth@reqres.in","first_name":"George","last_name":"Bluth","avatar":"https://reqres.in/img/faces/1-image.jpg"},
{"id":2,"email":"janet.weaver@reqres.in","first_name":"Janet","last_name":"Weaver","avatar":"https://reqres.in/img/faces/2-image.jpg"},
{"id":3,"email":"emma.wong@reqres.in","first_name":"Emma","last_name":"Wong","avatar":"https://reqres.in/img/faces/3-image.jpg"},
{"id":4,"email":"eve.holt@reqres.in","first_name":"Eve","last_name":"Holt","avatar":"https://reqres.in/img/faces/4-image.jpg"},
{"id":5,"email":"charles.morris@reqres.in","first_name":"Charles","last_name":"Morris","avatar":"https://reqres.in/img/faces/5-image.jpg"},
{"id":6,"email":"tracey.ramos@reqres.in","first_name":"Tracey","last_name":"Ramos","avatar":"https://reqres.in/img/faces/6-image.jpg"}],"support":{"url":"https://reqres.in/#support-heading","text":"To keep ReqRes free, contributions towards server costs are appreciated!"}}}
```

Menggunakan cURL

```
("page":1,"per_page":6,"total":12,"total_pages":2,"data":[{"id":1,"email":"george.bluth@reqres.in","first_name":"George","last_name":"Bluth","avatar":"https://reqres.in/img/faces/1-image.jpg"},
{"id":2,"email":"janet.weaver@reqres.in","first_name":"Janet","last_name":"Weaver","avatar":"https://reqres.in/img/faces/2-image.jpg"},
{"id":3,"email":"emma.wong@reqres.in","first_name":"Emma","last_name":"Wong","avatar":"https://reqres.in/img/faces/3-image.jpg"},
{"id":4,"email":"eve.holt@reqres.in","first_name":"Eve","last_name":"Holt","avatar":"https://reqres.in/img/faces/4-image.jpg"},
{"id":5,"email":"charles.morris@reqres.in","first_name":"Charles","last_name":"Morris","avatar":"https://reqres.in/img/faces/5-image.jpg"},
{"id":6,"email":"tracey.ramos@reqres.in","first_name":"Tracey","last_name":"Ramos","avatar":"https://reqres.in/img/faces/6-image.jpg"}],"support":{"url":"https://reqres.in/#support-heading","text":"To keep ReqRes free, contributions towards server costs are appreciated!"}}}
```

```
array(6) { ["page"]=> int(1) ["per_page"]=> int(6) ["total"]=> int(12) ["total_pages"]=> int(2) ["data"]=> array(6) { [0]=> array(5) { ["id"]=> int(1) ["email"]=> string(22) "george.bluth@reqres.in" ["first_name"]=> string(6) "George" ["last_name"]=> string(5) "Bluth" ["avatar"]=> string(39) "https://reqres.in/img/faces/1-image.jpg" } [1]=> array(5) { ["id"]=> int(2) ["email"]=> string(22) "janet.weaver@reqres.in" ["first_name"]=> string(5) "Janet" ["last_name"]=> string(6) "Weaver" ["avatar"]=> string(39) "https://reqres.in/img/faces/2-image.jpg" } [2]=> array(5) { ["id"]=> int(3) ["email"]=> string(19) "emma.wong@reqres.in" ["first_name"]=> string(4) "Emma" ["last_name"]=> string(4) "Wong" ["avatar"]=> string(39) "https://reqres.in/img/faces/3-image.jpg" } [3]=> array(5) { ["id"]=> int(4) ["email"]=> string(18) "eve.holt@reqres.in" ["first_name"]=> string(3) "Eve" ["last_name"]=> string(4) "Holt" ["avatar"]=> string(39) "https://reqres.in/img/faces/4-image.jpg" } [4]=> array(5) { ["id"]=> int(5) ["email"]=> string(24) "charles.morris@reqres.in" ["first_name"]=> string(7) "Charles" ["last_name"]=> string(6) "Morris" ["avatar"]=> string(39) "https://reqres.in/img/faces/5-image.jpg" } [5]=> array(5) { ["id"]=> int(6) ["email"]=> string(22) "tracey.ramos@reqres.in" ["first_name"]=> string(6) "Tracey" ["last_name"]=> string(5) "Ramos" ["avatar"]=> string(39) "https://reqres.in/img/faces/6-image.jpg" } } ["support"]=> array(2) { ["url"]=> string(34) "https://reqres.in/#support-heading" ["text"]=> string(72) "To keep ReqRes free, contributions towards server costs are appreciated!" } }
```

ID	Email	First Name	Last Name	Avatar
1	george.bluth@reqres.in	George	Bluth	
2	janet.weaver@reqres.in	Janet	Weaver	
3	emma.wong@reqres.in	Emma	Wong	
4	eve.holt@reqres.in	Eve	Holt	
5	charles.morris@reqres.in	Charles	Morris	
6	tracey.ramos@reqres.in	Tracey	Ramos	

3. Membuat Aplikasi AJAX untuk Pencarian

Source Code:

a. php11F.php

```
<!DOCTYPE html>
<html lang='en-GB'>

<head>
  <title>PHP11 F</title>
```

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```
<style>
table,
th,
td {
    border: 1px solid black;
    border-collapse: collapse;
    padding: 5px;
}

nav {
    background-color: #010417;
    overflow: hidden;
}

nav ul {
    list-style: none;
    width: 100%;
    margin: 0;
}

nav li {
    float: left;
    margin: 0;
}

nav a {
    display: flex;
    height: 30px;
    padding: 5px 1.5em;
    color: white !important;
    text-decoration: none !important;
}

.active,
nav a:hover {
    background-color: #c74451;
}
</style>
</head>

<body>
<h1>PHP and Databases</h1>
<?php include 'php11F_header.php'; ?>

<?php
session_start();
if (!isset($_SESSION['username'])) {
    header('Location: php11D.php');
}
require '../DB_CON.php';
try {
```

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```
$pdo = new PDO($dsn, $db_username, $db_password,
$opt);
$stmt = $pdo->query('select * from meetings order by
slot');

$stmt = null;
} catch (PDOException $e) {
    exit('PDO Error: ' . $e->getMessage() . '<br>');
}
?>

<h2>Data in meeting table</h2>
<?php if (isset($_GET['msg'])) {
    echo "<p style='color: " .
        $_GET['color'] .
        "'>" .
        $_GET['msg'] .
        "</p>";
} ?>
Rows retrieved: <?= $stmt->rowCount() ?><br><br>

<a href='php09E.php'><button style="margin-bottom:
10px">Tambah Data</button></a>
<form action="">
    Cari Nama: <input type="text" id="txt1"
onkeyup="showHint(this.value)">
</form>
<p>Suggestions: <span id="txtHint"></span></p>

<table style='margin-top: 10px'>
    <thead>
        <tr>
            <th>Slot</th>
            <th>Name</th>
            <th>Email</th>
            <th></th>
        </tr>
    </thead>
    <tbody>
        <?php while ($row = $stmt->fetch()) { ?>
            <tr>
                <td><?= $row['slot'] ?></td>
                <td><?= $row['name'] ?></td>
                <td><?= $row['email'] ?></td>
                <td><a style="margin-right: 15px"
href="php09G.php?slot=<?= $row[
'slot'
] ?>"></img><a href="php09H.php?slot=<?= $row[
'slot'
'>Apakah kamu
yakin akan menghapus data?`)" href="php09H.php?slot=<?= $row[
'slot'
```

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```
    ] ?"></img></a>
    </td>
  </tr>
  <?php } ?>
</tbody>
</table>

<script src="page11A_suggestion.js"></script>
</body>

</html>
```

b. php11_header.php

```
<header>
  <nav>
    <ul>
      <li><a class="active" href="#">Data
Meeting</a></li>
      <li><a href="php11F_logout.php">Logout</a></li>
    </ul>
  </nav>
</header>
```

c. php11_logout.php

```
<?php
session_start();

session_unset();
session_destroy();

header('Location: php11D.php');
```

d. php11D.php

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>Login</title>
</head>

<body>

  <?php
  session_start();
  if (isset($_SESSION['username'])) {
    header('Location: php11F.php');
  }

  $message = $_GET['msg'] ?? '';
```

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```
echo '<p style="color: red">' . $message . '</p>';
?>
<form action="php11D_action.php" method="post">
  <table>
    <tr>
      <td><label>Username:</label></td>
      <td><input type="text" name="username"></td>
    </tr>
    <tr>
      <td><label>Password:</label></td>
      <td><input type="password"
name="password"></td>
    </tr>
    <tr>
      <td><input type="submit" value="Login"></td>
      <td></td>
    </tr>
  </table>
</form>
</body>
</html>
```

e. php11D_action.php

```
<?php
require '../DB_CON.php';
$username = $_POST['username'];
$password = $_POST['password'];

$pdo = new PDO($dsn, $db_username, $db_password, $opt);
$query = 'SELECT * FROM users WHERE username = :username LIMIT
1';

$stmt = $pdo->prepare($query);
$stmt->bindParam(':username', $username, PDO::PARAM_STR);
$stmt->execute();

if ($stmt->rowCount() > 0) {
    $user = $stmt->fetch(PDO::FETCH_ASSOC);
    if (password_verify($password, $user['password'])) {
        session_start();
        $_SESSION['username'] = $_POST['username'];
        header('Location: php11F.php');
    } else {
        $message = urlencode('Password salah');
        header('Location: php11D.php?msg=' . $message);
    }
} else {
    $message = urlencode('Akun tidak ditemukan');
    header('Location: php11D.php?msg=' . $message);
}
```


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```
$pdo = null;
```

f. page11B_gethint.php

```
<?php

include '../DB_CON.php';

try {
    //Code 6
    $keyword = '%' . $_GET['keyword'] . '%';
    try {
        $pdo = new PDO($dsn, $db_username, $db_password,
$opt);
        $query = 'SELECT * FROM meetings WHERE name LIKE
:keyword';
        $stmt = $pdo->prepare($query);
        $stmt->bindParam(':keyword', $keyword,
PDO::PARAM_STR);
        $stmt->execute();
        $stmt = $stmt->fetchAll();

        $pdo = null;
    } catch (PDOException $e) {
        exit('PDO Error: ' . $e->getMessage() . '<br>');
    }

    // lookup all hints if query result is not empty
    if ($stmt) {
        echo json_encode($stmt);
    } else {
        // Output "no suggestion" if no hint was found or
output correct values
        $response[] = [
            'name' => 'no suggestion',
        ];

        echo json_encode($response);
    }

    $pdo = null;
} catch (PDOException $e) {
    exit('PDO Error: ' . $e->getMessage() . '<br>');
}
```

g. page11A_suggestion.js

```
function showHint(str) {
    let text = document.getElementById("txtHint");
    if (str.length == 0) {
        text.innerText = "";
        return;
    }
}
```

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```
xhttp = new XMLHttpRequest();

//Code 4b
xhttp.onreadystatechange = function () {
    if (this.readyState == 4 && this.status == 200) {
        // Typical action to be performed when the document is
ready:
        let res = JSON.parse(xhttp.responseText);
        let output = res
            .map(function (e) {
                return e.name;
            })
            .join(", ");
        text.innerText = output;
    }
};

xhttp.open("GET", "page11B_gethint.php?keyword=" + str,
true);
xhttp.send();
}
```

Output:

PHP and Databases

Data Meeting

Logout











Data in meeting table

Rows retrieved: 6

Tambah Data

Cari Nama:

Suggestions: povefyk@mailinator.com, vogagubam@mailinator.com

Slot	Name	Email	
1	wufozud@mailinator.com	sagodefit@mailinator.com	 
16	jikiwytu@mailinator.com	vyxuj@mailinator.com	 
21	pumagy@mailinator.com	vorewubo@mailinator.com	 
68	povefyk@mailinator.com	guxer@mailinator.com	 
88	tanaren@mailinator.com	tuwoguloc@mailinator.com	 
89	vogagubam@mailinator.com	bagijeh@mailinator.com	