

LAPORAN TUGAS MODUL 9
PEMROGRAMAN WEB DINAMIS
“AJAX”



Oleh:

NAMA : Daffa Putra Alwansyah
NIM : L200190031
KELAS : A
PRODI : INFORMATIKA

Fakultas Komunikasi dan Informatika
Universitas Muhammadiyah Surakarta

CODE:

index.php

```
index.php X
Modul 9 > index.php > html > body > br
1  <?php
2  session_start();
3  if(!isset($_SESSION["login"])) {
4      header("Location: login.php");
5      exit;
6  }
7  require "functions.php";
8  $mahasiswa = query("SELECT * FROM mahasiswa");
9
10 //tekan tombol cari
11 if (isset($_POST["cari"])) {
12     $mahasiswa = cari($_POST["keyword"]);
13 }
14 }
15 <DOCTYPE html>
16 <html lang="en">
17 <head>
18     <title>Halaman Admin</title>
19 </head>
20 <body>
21     <h1>Daftar Mahasiswa</h1>
22     <a href="logout.php">Log Out</a>
23     <form action="" method="POST">
24         <input type="text" name="keyword" size="40" autofocus placeholder="Masukkan Kata Pencarian" autocomplete="off" id="keyword">
25         <button type="submit" name="cari" id="tombolcari">Cari</button>
26     </form>
27     <br>
28     <div id="container">
29         <table border="1" cellpadding="10" cellspacing="0">
30             <tr>
31                 <th>No</th>
32                 <th>Nama</th>
33                 <th>NIM</th>
34                 <th>Email</th>
```

```
index.php X
Modul 9 > index.php > html > body > br
35         <th>Email</th>
36         <th>Jurusan</th>
37         <th>Gambar</th>
38     </tr>
39     <?php $i = 1 ?>
40     <?php foreach ($mahasiswa as $row) : ?>
41         <tr>
42             <td><?=$i ?></td>
43             <td><?=$row["nama"]; ?></td>
44             <td><?=$row["nim"]; ?></td>
45             <td><?=$row["email"]; ?></td>
46             <td><?=$row["jurusan"]; ?></td>
47             <td><?=$row["gambar"]; ?> width="50"></td>
48         </tr>
49     <?php $i++ ?>
50     <?php endforeach; ?>
51 </table>
52 </div>
53 <script type="text/javascript" src="js/script.js"></script>
54 </body>
55 </html>
```

functions.php

```
File Edit Selection View Go Run Terminal Help functions.php - Untitled (Workspace) - Visual Studio Code
index.php functions.php X
Modul 9 > functions.php > registrasi > $conn
1 <?php
2 $conn = mysqli_connect("localhost", "root", "", "pud");
3
4 function query($query) {
5     global $conn;
6     $result = mysqli_query($conn, $query);
7     $rows = [];
8
9     while ($row = mysqli_fetch_assoc($result)) {
10         $rows[] = $row;
11     }
12     return $rows;
13 }
14
15 function registrasi($data){
16     global $conn;
17
18     $username = strtolower($data["username"]);
19     $password = mysqli_real_escape_string($conn, $data["password"]);
20     $password2 = mysqli_real_escape_string($conn, $data["password2"]);
21
22     //Cek Username
23     $result = mysqli_query($conn, "SELECT username FROM user WHERE username = '$username'");
24     if (mysqli_fetch_assoc($result)){
25         echo "<script>
26             alert('Username Sudah Terdaftar')
27         </script>";
28         return false;
29     }
30
31     //Cek Konfirmasi Password
32     if ($password != $password2) {
33         echo "<script>
34             alert('Konfirmasi Password Tidak Sesuai')
35         </script>";
36     }
37 }
38
39 //Enkripsi Password
40 $password = password_hash($password, PASSWORD_DEFAULT);
41
42 //Tambahkan User Baru Ke DB
43 mysqli_query($conn, "INSERT INTO user VALUES('','$username','$password')");
44 return mysqli_affected_rows($conn);
45 }
46
47 function cari($keyword){
48     $query = "SELECT * FROM mahasiswa WHERE
49         nama LIKE '%$keyword%' OR
50         NIM LIKE '%$keyword%' OR
51         jurusan LIKE '%$keyword%' OR
52         email LIKE '%$keyword%'
53     ";
54     return query($query);
55 }
56
57 ?>
```

```
File Edit Selection View Go Run Terminal Help functions.php - Untitled (Workspace) - Visual Studio Code
index.php functions.php X
Modul 9 > functions.php > registrasi > $conn
38
39 //Cek Konfirmasi Password
40 if ($password != $password2) {
41     echo "<script>
42         alert('Konfirmasi Password Tidak Sesuai')
43     </script>";
44     return false;
45 }
46
47 //Enkripsi Password
48 $password = password_hash($password, PASSWORD_DEFAULT);
49
50 //Tambahkan User Baru Ke DB
51 mysqli_query($conn, "INSERT INTO user VALUES('','$username','$password')");
52 return mysqli_affected_rows($conn);
53 }
54
55 function cari($keyword){
56     $query = "SELECT * FROM mahasiswa WHERE
57         nama LIKE '%$keyword%' OR
58         NIM LIKE '%$keyword%' OR
59         jurusan LIKE '%$keyword%' OR
60         email LIKE '%$keyword%'
61     ";
62     return query($query);
63 }
64
65 ?>
```

login.php

```
File Edit Selection View Go Run Terminal Help login.php - Untitled (Workspace) - Visual Studio Code
index.php functions.php login.php X
Modul 9 > login.php > html > body
1 <?php
2 session_start();
3
4 //cek cookie
5 if (isset($_COOKIE['login'])) {
6     if ($_COOKIE['login'] == 'true') {
7         $_SESSION['login'] = true;
8     }
9 }
10
11 if (isset($_SESSION['login'])) {
12     header("Location: index.php");
13     exit;
14 }
15
16 require "functions.php";
17
18 if(isset($_POST['login'])) {
19     $username = $_POST['username'];
20     $password = $_POST['password'];
21
22     $result = mysqli_query($conn, "SELECT * FROM user WHERE user = '$username'");
23
24     //cek username
25     if (mysqli_num_rows($result) === 1) {
26
27         //cek password
28         $row = mysqli_fetch_assoc($result);
29         if (password_verify($password, $row['password'])) {
30
31             //set session
32             $_SESSION['login'] = true;
33
34             //cek remember me
35             if (isset($_POST['remember'])) {
```

```
File Edit Selection View Go Run Terminal Help login.php - Untitled (Workspace) - Visual Studio Code
index.php functions.php login.php X registrasi.php logout.php
Modul 9 > login.php > html > body > form > ul > li
51 <meta charset="utf-8">
52 <title>Halaman Login</title>
53 </head>
54 <body>
55     <h1>Login</h1>
56
57     <?php if (isset($error)):?>
58         <p style="color: red; font-style: italic">username atau password yang dimasukan salah</p>
59     <?php endif;?>
60
61     <form action="" method="post">
62         <ul>
63
64             <li>
65                 <label for="username">Username :</label>
66                 <input type="text" name="username">
67             </li>
68             <li>
69                 <label for="password">Password :</label>
70                 <input type="password" name="password" id="password">
71             </li>
72             <li>
73                 <input type="checkbox" name="remember" id="remember">
74                 <label for="remember">Remember me :</label>
75             </li>
76             <li>
77                 <button type="submit" name="login">Login</button>
78             </li>
79             <li>
80                 <td><a href="registrasi.php">Registrasi</a></td>
81             </li>
82         </ul>
83     </form>
84 </body>
```

registrasi.php

```
File Edit Selection View Go Run Terminal Help
registrasi.php - Untitled (Workspace) - Visual Studio Code

index.php functions.php login.php registrasi.php X logout.php

Modul 9 > registrasi.php > ...
1 <?php
2 require 'functions.php';
3
4 if (isset($_POST['register'])) {
5
6     if (registrasi($_POST) > 0) {
7         echo "<script>
8             alert('user berhasil ditambahkan');
9         </script>";
10    }
11    else {
12        echo mysqli_error($conn);
13    }
14 }
15
16 <DOCTYPE html>
17 <html>
18 <head>
19     <meta charset="utf-8">
20     <title>Halaman Registrasi</title>
21 </head>
22 <body>
23     <h1>Registrasi</h1>
24
25     <form action="" method="post">
26         <ul>
27             <li>
28                 <label for="username">Username :</label>
29                 <input type="text" name="username">
30             </li>
31             <li>
32                 <label for="password">Password :</label>
33                 <input type="password" name="password" id="password">
34             </li>
35             <li>
36                 <label for="password2">Konfirmasi Password :</label>
37             </li>
38         </ul>
39     </form>
40
41 </body>
42 </html>
```

logout.php

```
File Edit Selection View Go Run Terminal Help
logout.php - Untitled (Workspace) - Visual Studio Code

index.php functions.php login.php registrasi.php logout.php X

Modul 9 > logout.php
1 <?php
2 session_start();
3 $_SESSION = [];
4 session_unset();
5 session_destroy();
6
7 header("Location: login.php");
8 exit;
9 <?php
```

mahasiswa.php (ajax)

```
File Edit Selection View Go Run Terminal Help
mahasiswa.php - Untitled (Workspace) - Visual Studio Code

EXPLORER
> OPEN EDITORS
  > UNTITLED (WORKSPACE)
    > Modul 9
      > ajax
        mahasiswa.php
      > images
      > js
        > scriptjs
        > functions.php
        > index.php
        > login.php
        > logout.php
        > registrasi.php
    > OUTLINE
    > LIVE SHARE

Modul 9 > ajax > mahasiswa.php > table > tr > td > img
1 <?php
2 require "../functions.php";
3
4 $keyword = $_GET["keyword"];
5 $query = "SELECT * FROM mahasiswa WHERE
6     nama LIKE '%$keyword%' OR
7     NIM LIKE '%$keyword%' OR
8     jurusan LIKE '%$keyword%' OR
9     email LIKE '%$keyword%'";
10 $mahasiswa = query($query);
11
12 <table border="1" cellpadding="10" cellspacing="0">
13     <tr>
14         <th>No</th>
15         <th>Nama</th>
16         <th>NIM</th>
17         <th>Email</th>
18         <th>Jurusan</th>
19         <th>Gambar</th>
20     </tr>
21
22     <?php $i = 1 ?>
23     <?php foreach ($mahasiswa as $row) : ?>
24     <tr>
25         <td><?=$i ?></td>
26         <td><?=$row["nama"]; ?></td>
27         <td><?=$row["nim"]; ?></td>
28         <td><?=$row["email"]; ?></td>
29         <td><?=$row["jurusan"]; ?></td>
30         <td>" width="50"/></td>
31     </tr>
32     <?php $i++ ?>
33     <?php endforeach ?>
34 </table>
```

script.js

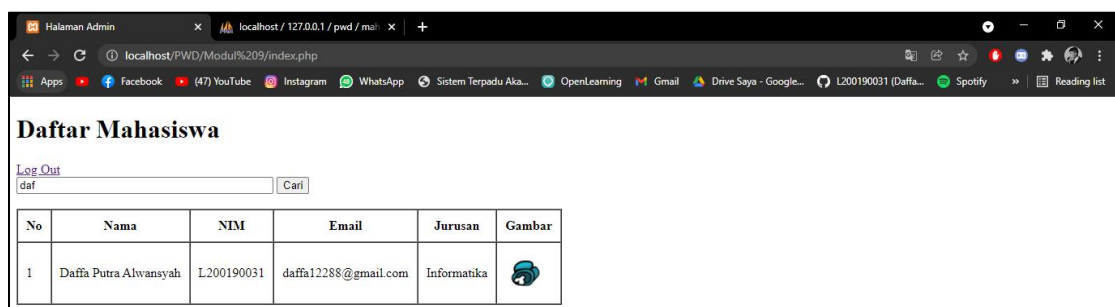
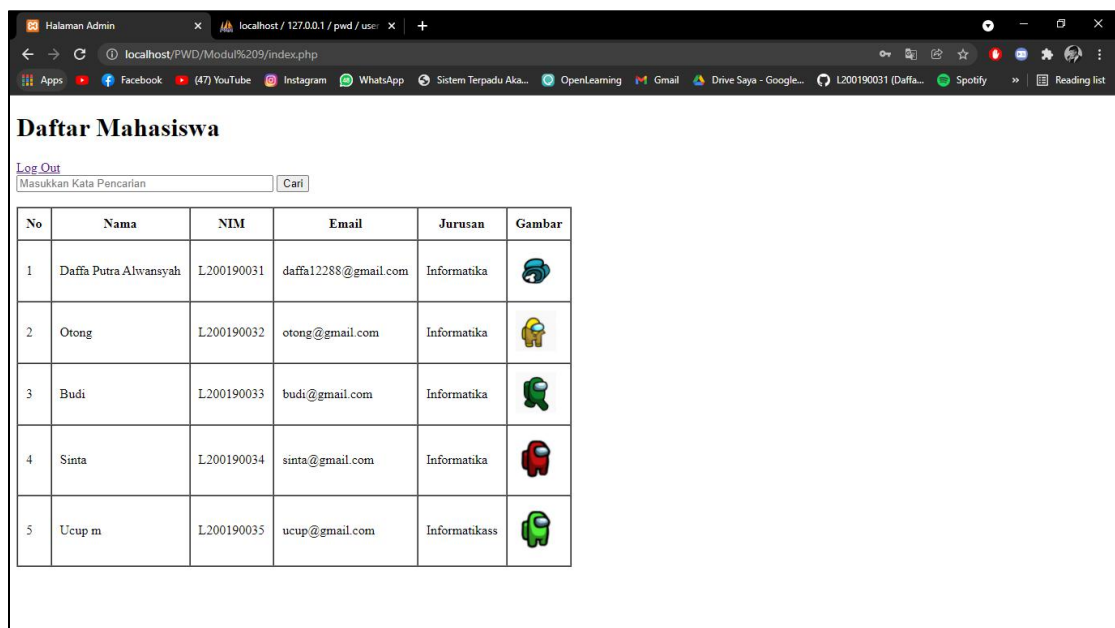
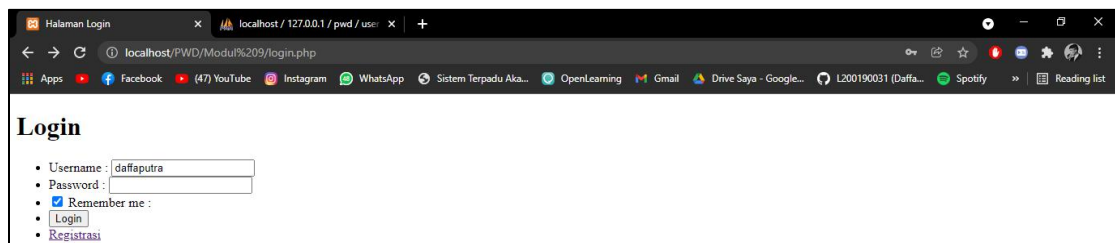
```
File Edit Selection View Go Run Terminal Help
scriptjs - Untitled (Workspace) - Visual Studio Code

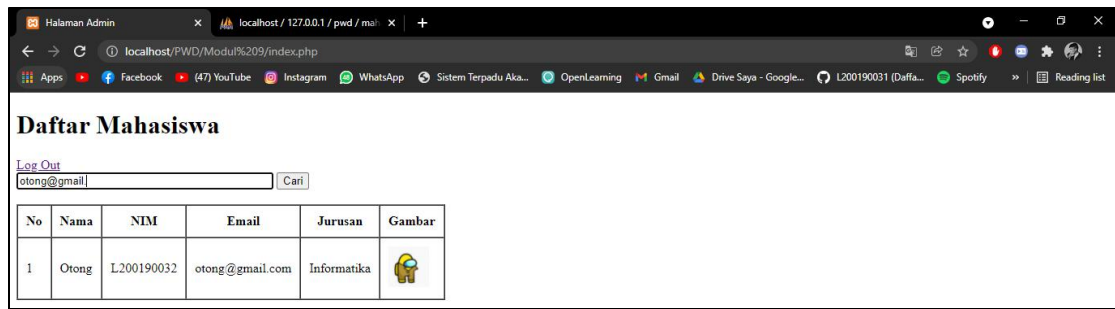
EXPLORER
> OPEN EDITORS
  index.php
  functions.php
  login.php
  registrasi.php
  logout.php
  mahasiswa.php
  scriptjs
  functions.php
  index.php
  login.php
  logout.php
  registrasi.php

UNTITLED (WORKSPACE)
  Modul 9
    ajax
    mahasiswa.php
    images
    js
  scriptjs
    functions.php
    index.php
    login.php
    logout.php
    registrasi.php

Modul 9 > js > JS scriptjs > ...
1 //Mengambil elemen2 yang ada dalam html
2 var keyword = document.getElementById('keyword');
3 var tombolCari = document.getElementById('tombolCari');
4 var container = document.getElementById('container');
5
6
7 //Menambahkan suatu event di dalam field keyword
8 keyword.addEventListener('keyup', function(){
9   //Hmbuat objek ajax
10  var xhr = new XMLHttpRequest();
11
12  //Cek Keselapan Ajax
13  xhr.onreadystatechange = function(){
14    if (xhr.readyState == 4 && xhr.status == 200) {
15      container.innerHTML = xhr.responseText;
16    }
17  }
18
19  //Hmbuat ajax
20  xhr.open('GET', 'ajax/mahasiswa.php?keyword='+keyword.value,true);
21  xhr.send();
22  }};
```

OUTPUT





Manfaat Ajax:

1. Meningkatkan User Experience (UX)
2. Meningkatkan produktivitas pengguna
3. Mengurangi penggunaan bandwidth dan meningkatkan kecepatan
4. Meningkatkan kompatibilitas
5. Mendukung proses Asynchronous
6. Mengurangi hit server dan beban jaringan
7. Navigasi lebih mudah
8. Pemisahan antara data, style, format dan fungsi