LAPORAN PRAKTIKUM

SISTEM KEAMANAN DATA

Di buat oleh :

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TIC

UNIVERSITAS SEBELAS MARET SURAKARTA

FAKULTAS SEKOLAH VOKASI

DE TEKNIK INFORMATIKA

2021

Laporan Praktikum 02

Drive :
https://drive.google.com/file/d/1gDVO7JqEiSiP5ZkFsRPt1LlVjfHl0Piz/view?usp=sharing

1. Buat form registrasi user yang terdiri dari username, password, email, alamat, dan nama (username tidak boleh ada spasi)

Signup

```
<tr>
    <td><input type="text" name="username" id="username" placeholder="Username"></td>
</tr>
<tr>
    <td><input type="text" name="email" id="email" placeholder="Email"></td>
</tr>
<tr>
    <td><input type="password" name="password" id="password" placeholder="Password"></td>
</tr>
<tr>
    <td><input type="password" name="password2" id="password2" placeholder="Konfirmasi Password"></td>
</tr>
<tr>
    <td><input type="text" name="nama" id="nama" placeholder="Nama anda"></td>
</tr>
<tr>
    <td><input type="text" name="hp" id="hp" placeholder="Nomor seluler"></td>
</tr>
<tr>
    <td><input type="text" name="alamat" id="alamat" placeholder="Alamat"></td>
</tr>
<tr>
```

2. Pastikan data berhasil disimpan di database

Signup

samuelsteven

samuelhasiyono11@stude

••••••

••••••

samuel steven ph

085157538997

nusukan

Admin

[Daftar]

Sudah punya akun ? Login

```php
function registrasi($data){
    global $conn;
    $username = strtolower ($data["username"]);
    $email =  $data["email"];
    $password = mysqli_escape_string ($conn, $data["password"]);
    $password2 = mysqli_escape_string ($conn, $data["password2"]);
    $nama =  $data["nama"];
    $hp =  $data["hp"];
    $alamat =  $data["alamat"];
    $role =  $data["role"];
```

		id	username	email	Password	nama	hp	alamat	role
☐	Edit ⋮Copy Delete	2	samuel	samuelhasiyono11@student.uns.ac.id	$2y$10$oUBk6WDAtWYdebWSb09Nb.IQcBKoJpYhZF2.tPVk/P/...	samuel steven	123123123	nusukan	admin
☐	Edit ⋮Copy Delete	3	samuelsteven	samuelhasiyono11@student.uns.ac.id	$2y$10$0aKYCOgiYtgYyknWiUOxC.FR0DaPUJsY9qND7ml2Ore...	samuel steven ph	085157538997	nusukan	admin

```php
db.php > ...
1   <?php
2   $conn = mysqli_connect("localhost","root","","prakskd");
3   if (mysqli_connect_errno()) {
4       echo "Koneksi database gagal : " . mysqli_connect_error();
5   }
6   ?>
```

```js
java.js > runScript
1   function runScript(test) {
2       if (test.keyCode == 42) {
3           return false
4       } else {
5           return true;
6       }
7   }
```

```php
<?php
    // require 'functions.php';
    if(isset($_POST["submit"])){

        $nama       = $_POST['nama'];
        $username   = $_POST['username'];
        $email      = $_POST['email'];
        $hp         = $_POST['hp'];
        $alamat     = $_POST['alamat'];
        $role       = $_POST['role'];


        $updateprofile = mysqli_query ($conn,"UPDATE db_user SET
                                    nama = '".$nama."' ,
                                    username = '".$username."' ,
                                    email = '".$email."' ,
                                    hp = '".$hp."' ,
                                    alamat = '".$alamat."' ,
                                    role = '".$role."'
                                    WHERE id = '".$d->id."' ");



    if($updateprofile){
        echo'<script>alert("Profile has changed")</script>';
        echo'<script>window.location="../praktikum/profile.php"</script>';
```

```php
logout.php
1   <?php
2       session_start();
3       session_destroy();
4
5       header("location: ../praktikum/index.html");
6       exit;
7
8   ?>
```

3. Kriteria password yang kuat dan aman sebagai berikut :
- Password harus terdiri dari lebih atau sama dengan 8 karakter
- Password harus mengandung setidaknya 1 huruf kecil dan huruf besar

- Password harus mengandung setidaknya 1 angka
- Password harus mengandung setidaknya 1 spesial karakter seperti : &*# atau sejenisnya

```html
<div class="form-floating mb-3">
    <label for="password">Password </label>
    <input type="password" class="form-control" name="password" id="password"
    pattern="(?=.*\d)(?=.*[a-z])(?=.*?[#?!@$%^&*-])(?=.*[A-Z]).{8,}" title="Password harus berisi setidaknya satu ang
    satu huruf spesial dan minimal 8 huruf">
</div>
```

4. Buat verifikasi melalui email untuk aktivasi akun sebelum login

```php
mail.php > ...
1   <?php
2   use PHPMailer\PHPMailer\PHPMailer;
3   use PHPMailer\PHPMailer\Exception;
4   require "vendor/autoload.php";
5   $mail = new PHPMailer(true);
6   $mail->SMTPDebug = 0;
7   $mail->isSMTP();
8   $mail->Host = 'smtp.gmail.com';
9   $mail->SMTPAuth = true;
10  //ganti dengan email dan password yang akan di gunakan sebagai email pengirim
11  $mail->Username = 'samuelhasiyono11@gmail.com';
12  $mail->Password = 'Samuel11';
13  $mail->SMTPSecure = 'ssl';
14  $mail->Port = 465;
15  //ganti dengan email yg akan di gunakan sebagai email pengirim
16  $mail->setFrom('samuelhasiyono11@gmail.com', 'Samuel Steven');
17  $mail->addAddress($_POST['email'], $_POST['nama']);
18  $mail->isHTML(true);
19  $mail->Subject = "Aktivasi pendaftaran";
20  $mail->Body = "Selemat, anda berhasil membuat akun. Untuk mengaktifkan akun anda silahkan klik link dibawah ini.
21   <a href='http://localhost/skd/Tugas2/activation.php?t=".$token."'>http://localhost/pskd_Tugas2/activation.php?t=".$t
22  $mail->send();
```

```php
activation.php > html > body
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Aktifasi</title>
8       <link href="h Follow link (ctrl + click) et/npm/bootstrap@5.1.1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="
9       <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
10  </head>
11  <body style="background-color :aqua>
12
13  <div class="container text-center">
14      <?php include "db.php";
15      $token = $_GET['t'];
16      $sql_check = mysqli_query($conn, "SELECT * FROM users WHERE token='". $token . "' and aktif='0'");
17      $total = mysqli_num_rows($sql_check);
18      if ($total > 0 )
19      {
20          mysqli_query($conn, "UPDATE users SET aktif='1' WHERE token='".$token."' and aktif='0'");
21          echo '<div class="alert alert-success"> Akun sudah aktif silahkan
22          <a href="login.php">Login</a></div>';
23      }else
24          echo '<div class="alert alert-warning"> Invalid token </div>'
25      ?>
26  </div>
27
28  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-/bQdsTh/
29  </body>
30  </html>
```

```javascript
JS java.js
1   function runScript(tes) {
2       if (tes.keyCode == 42) {
3           return false
4       } else {
5           return true;
6       }
7   }
```

logout.php

```php
<?php
session_start();
session_destroy();
exit;
header("Location:login.php");
?>
```

```css
* {
    margin: 0;
    padding: 0;
    outline: 0;
    font-family: 'Open Sans', sans-serif;
}

body {
    background-image: url(wallpaper.jpg);
    height: 100vh;
    background-color: #242424;
    background-size: cover;
    background-position: center;
    background-repeat: no-repeat;
}

p {
    color: rgb(26, 25, 25);
    font-family: 'Open Sans', sans-serif;
    padding-top: 10px;
}

h1 {
    text-align: center;
    padding-bottom: 20px;
}

a {
    color: #752BEA;
    font-family: 'Open Sans', sans-serif;
}
```