MEMBUAT APLIKASI CRUD DENGAN OOP PHP

Nama Anggota :
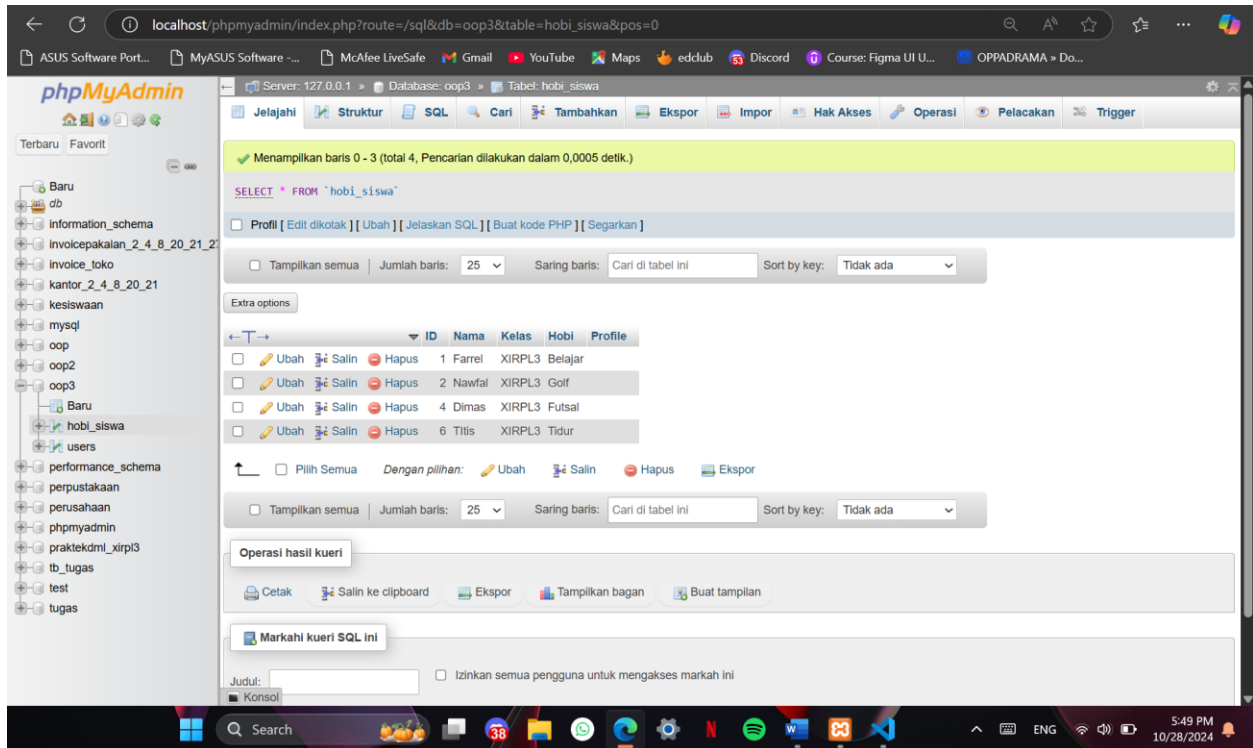
1. Dimas Prasetyo

2. Muhammad Farrel Hakim

3. Muhammad Nawfal Aryan S

4. Titis Viqnatan Candra Sally

SMK TEXMACO SEMARANG

TAHAPAN

I. hobi_siswa

A. Membuat Database dan Tabel

B. Membuat koneksi dengan nama file connect.php

```php
<?php
class Database {
private $host = "localhost";
private $db_name = "oop3";
private $username = "root";
private $password = "";

public $conn;
public function getConnection() {
$this->conn = null;
try {
$this->conn = new PDO("mysql:host=" .$this->host. ";dbname="

.$this->db_name, $this->username, $this->password);
$this->conn->exec("set names utf8");
}catch(PDOException $exception) {
echo "Connection error:" .$exception->getMessage();
```

```php
}
return $this->conn;
}
}

?>
```

C. Menampilkan Data

```php
<?php
include './connect.php';
include './hobi.php';
$db = new Database();
$hobi = new Hobi($db->getConnection());
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CRUD OOP PHP</title>
    <style>
        @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap');

        body {
            font-family: 'Poppins', sans-serif;
            background-color: #f3f4f6;
            color: #444;
            margin: 0;
            padding: 20px;
        }

        h1 {
            font-size: 2.2rem;
            color: #2d3436;
            text-align: center;
            text-transform: uppercase;
            letter-spacing: 1.5px;
            margin-bottom: 20px;
        }

        h3 {
```

```css
        font-size: 1.4rem;
        color: #555;
        text-align: center;
        margin-bottom: 20px;
    }

    a {
        display: inline-block;
        background-color: #6c5ce7;
        color: #fff;
        padding: 10px 18px;
        text-decoration: none;
        border-radius: 4px;
        font-weight: 500;
        margin-bottom: 20px;
        transition: background-color 0.3s ease;
    }

    a:hover {
        background-color: #574b90;
    }

    .container {
        max-width: 900px;
        margin: 0 auto;
    }

    table {
        width: 100%;
        border-collapse: collapse;
        background-color: #fff;
        border-radius: 8px;
        overflow: hidden;
        box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
    }

    th, td {
        padding: 12px 16px;
        text-align: center;
    }

    th {
        background-color: #6c5ce7;
        color: white;
        font-weight: 600;
```

```css
        text-transform: uppercase;
        letter-spacing: 0.5px;
}

td {
        font-size: 0.95rem;
        color: #333;
}

tr:nth-child(even) {
        background-color: #f7f7f7;
}

tr:hover {
        background-color: #ec28ec;
        transition: background-color 0.3s ease;
}

.btn {
        padding: 8px 12px;
        border: none;
        border-radius: 4px;
        color: white;
        font-size: 0.85rem;
        text-transform: uppercase;
        cursor: pointer;
        transition: background-color 0.3s ease;
}

.btn-edit {
        background-color: #00b894;
}

.btn-delete {
        background-color: #d63031;
}

.btn-edit:hover {
        background-color: #009975;
}

.btn-delete:hover {
        background-color: #b82d2a;
}
```

```css
        .btn-add {
            display: block;
            margin: 0 auto 20px;
            text-align: center;
        }

        @media (max-width: 768px) {
            table, th, td {
                font-size: 0.85rem;
            }

            .btn {
                font-size: 0.75rem;
                padding: 6px 10px;
            }
        }

    </style>
</head>
<body>

<div class="container">
    <h1>CRUD OOP PHP</h1>
    <h3>Data Hobi Siswa</h3>
    <a href="./create.php" class="btn btn-add">Tambahkan Data</a>

    <table>
        <tr>
            <th>ID</th>
            <th>Nama</th>
            <th>Kelas</th>
            <th>Hobi</th>
            <th colspan="2">Aksi</th>
        </tr>
        <?php
        foreach($hobi->read() as $x){
            $id = $x["ID"];
            $nama = $x["Nama"];
            $kelas = $x["Kelas"];
            $hobi_siswa = $x["Hobi"];

            echo "
            <tr>
                <td>" . $id . "</td>
                <td>" . $nama . "</td>
```
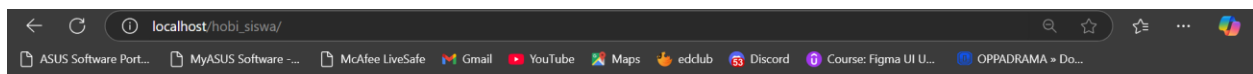
```
                <td>" . $kelas . "</td>
                <td>" . $hobi_siswa . "</td>
                <td><a href=\"./edit.php?ID=" . $id . "&Nama=" . $nama .
"&Kelas=" . $kelas . "&Hobi=" . $hobi_siswa . "\" class='btn btn-
edit'>Edit</a></td>
                <td><a onclick=\"if (confirm('Yakin hapus ini?'))
window.location.href = './delete_action.php?ID=" . $id . "';\" class='btn btn-
delete'>Delete</a></td>
            </tr>";
        }
        ?>
    </table>
</div>

</body>
</html>
```


D. Tambah Data

- create.php

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

```html
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Tambah Hobi Siswa</title>
<style>
    @import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;600&display=swap');

    body {
        font-family: 'Poppins', sans-serif;
        background: linear-gradient(135deg, #e0eafc, #cfdef3);
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        margin: 0;
    }

    h1 {
        text-align: center;
        color: #34495e;
        font-size: 2rem;
        text-transform: uppercase;
        letter-spacing: 1px;
        margin-bottom: 20px;
    }

    form {
        background-color: #fff;
        padding: 30px;
        border-radius: 10px;
        box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
        width: 300px;
    }

    label {
        font-size: 1rem;
        color: #333;
        display: block;
        margin-bottom: 10px;
    }

    input[type="text"], input[type="submit"] {
        width: 100%;
        padding: 10px;
```

```css
            margin-bottom: 15px;
            border-radius: 5px;
            border: 1px solid #ddd;
            font-size: 1rem;
        }

        input[type="text"]:focus {
            border-color: #2980b9;
            outline: none;
        }

        input[type="submit"] {
            background-color: #2980b9;
            color: white;
            font-size: 1rem;
            cursor: pointer;
            border: none;
            transition: background-color 0.3s ease;
        }

        input[type="submit"]:hover {
            background-color: #1f5a80;
        }

        .form-group {
            margin-bottom: 20px;
        }

        .form-group:last-of-type {
            margin-bottom: 0;
        }

    </style>
</head>
<body>
    <form action="create_action.php" method="post">
        <h1>Tambah Data Hobi Siswa</h1>
        <div class="form-group">
            <label for="nama">Nama</label>
            <input type="text" name="nama" id="nama" placeholder="Masukkan nama">
        </div>
        <div class="form-group">
            <label for="posisi">Kelas</label>
            <input type="text" name="kelas" id="kelas" placeholder="Masukkan
kelas">
```

```
        </div>
        <div class="form-group">
            <label for="hobi">Hobi</label>
            <input type="text" name="hobi" id="hobi" placeholder="Masukkan hobi">
        </div>
        <input type="submit" value="Simpan">
    </form>
</body>
</html>
```
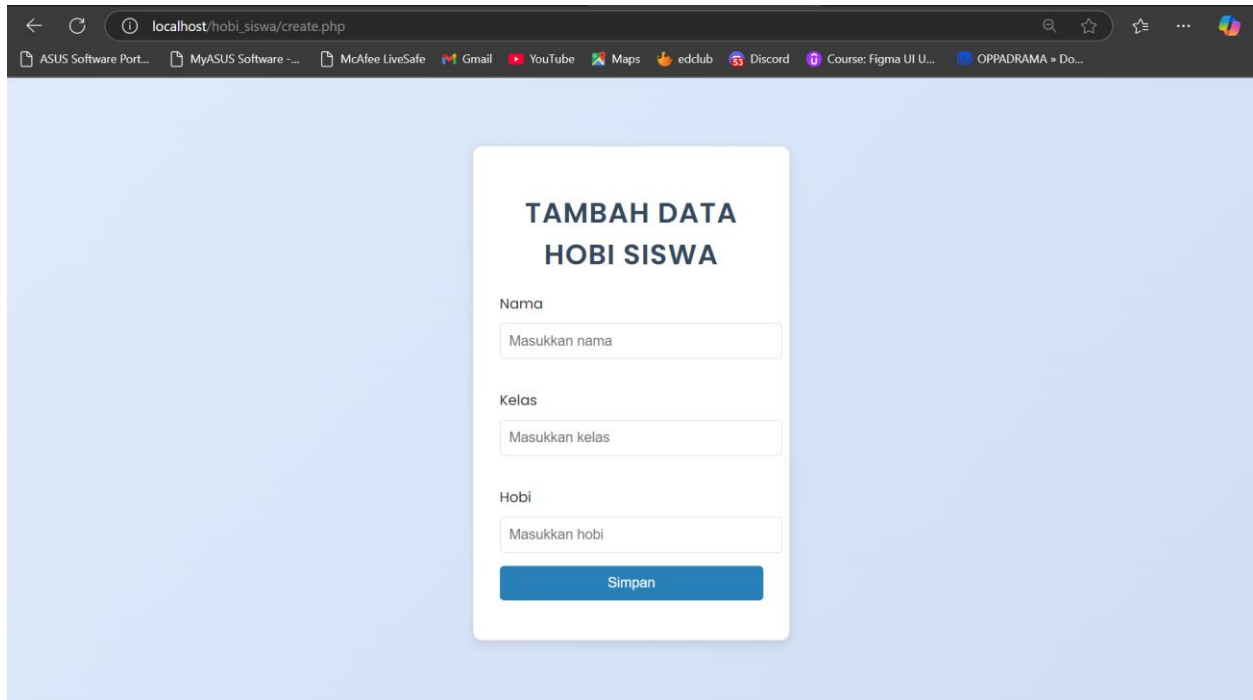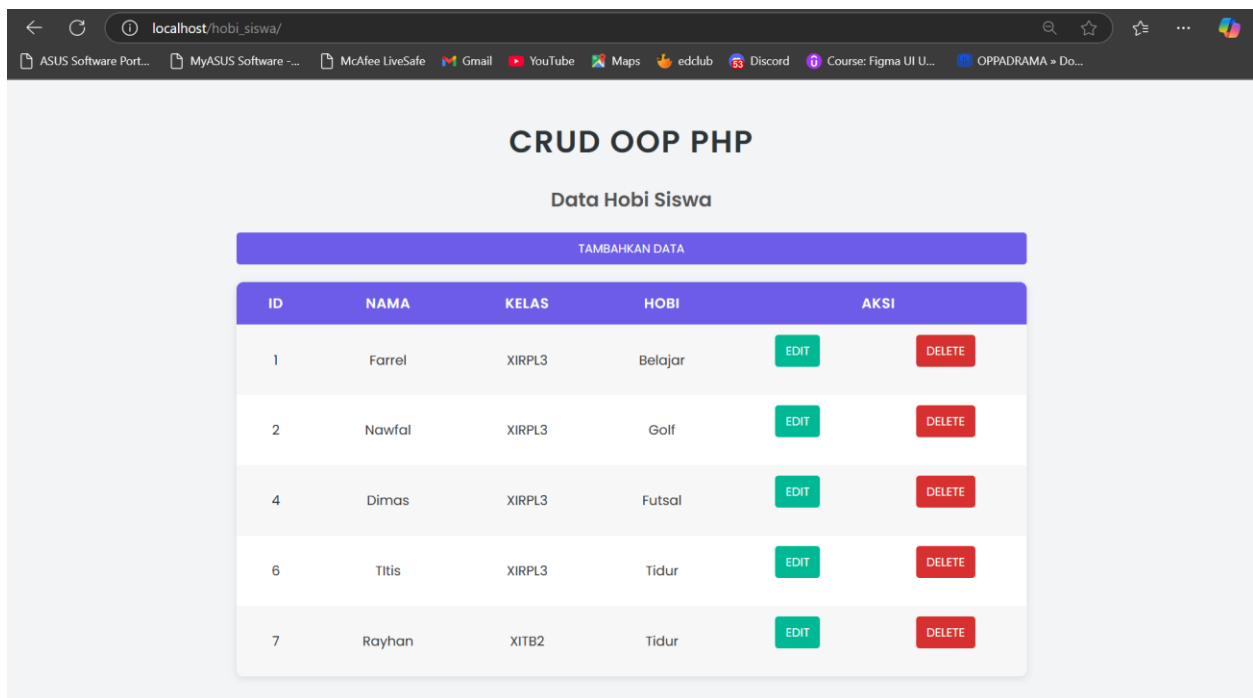
- create_action.php

```php
<?php
include_once 'connect.php';
include_once 'hobi.php';

$database = new Database();
$db = $database->getConnection();

$hobi = new hobi($db);
$hobi->nama = $_POST['nama'];
$hobi->kelas = $_POST['kelas'];
$hobi->hobi_siswa = $_POST['hobi'];

$hasil = $hobi->create();

if($hasil) {
    echo "Data berhasil ditambahkan.";
} else {
    echo "Gagal menambahkan data.";
}
echo "<BR> <a href='./'>Back</a>"
?>
```

- Output Tambah Data

- Karyawan berhasil ditambahkan

E. Edit Data

- edit.php

```html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Edit</title>
<style>
/* Styling untuk body */
body {
font-family: Arial, sans-serif;
background-color: #f0f0f5;
margin: 0;
padding: 20px;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}
/* Container form */
form {
background-color: #fff;
border-radius: 10px;
box-shadow: 0 0 15px rgba(0, 0, 0, 0.2);
padding: 30px;
width: 350px;
}
/* Judul */
h1 {
text-align: center;
color: #333;
margin-bottom: 40px;
width: 420px;
}
/* Style untuk label input */
label {
font-size: 16px;
color: #555;
}
/* Style untuk input field */
input[type="number"], input[type="text"] {
```

```css
width: 100%;

padding: 8px;
margin: 10px 0 20px;
border: 1px solid #ccc;
border-radius: 5px;
}
/* Style untuk tombol kirim */
input[type="submit"] {
width: 100%;
background-color: #2068E4;
color: white;
padding: 10px;
border: none;
border-radius: 5px;
cursor: pointer;
font-size: 16px;
}
/* Hover efek untuk tombol */
input[type="submit"]:hover {
background-color: #0A285A;
}
</style>
</head>
<body>
<h1>Edit Data Karyawan</h1>
<form action="./edit_action.php" method="POST">
Id: <input type="number" name="id" id="id" min="0" <?php $x =
$_GET["ID"];if ($x !== null) echo "value='$x'"; ?>><br>
Nama: <input type="text" name="nama" id="nama" <?php $x =
$_GET["Nama"];if ($x !== null) echo "value='$x'"; ?>><br>
Posisi: <input type="text" name="kelas" id="kelas" <?php $x =
$_GET["Kelas"];if ($x !== null) echo "value='$x'"; ?>><br>
Hobi: <input type="text" name="hobi" id="hobi" <?php $x =
$_GET["Hobi"];if ($x !== null) echo "value='$x'"; ?>><br>
<input type="submit" value="Kirim">
</form>
</body>
</html>
```

- edit_action.php

```php
<?php
include_once 'connect.php';
```

```php
include_once 'hobi.php';

$database = new Database();
$db = $database->getConnection();
$hobi = new hobi($db);
$hobi->id = $_POST['id'];
$hobi->nama = $_POST['nama'];
$hobi->kelas = $_POST['kelas'];
$hobi->hobi_siswa = $_POST['hobi'];
$hasil = $hobi->edit();
echo "<h1>";
if($hasil) {
echo "data berhasil di edit.";
} else {
echo "data tidak bisa di edit.";
}
echo "</h1>";
echo " - <a href=\"./\">Back Home</a>";
?>
```
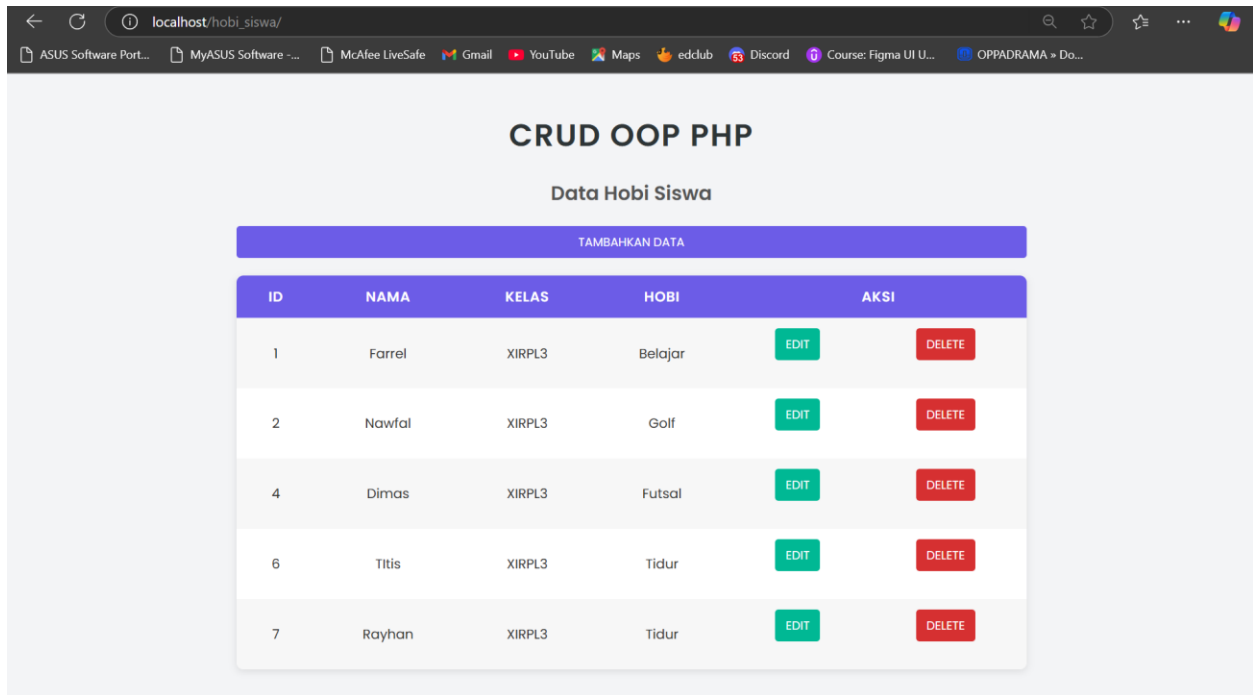
- Tampilan edit data

Edit Data Hobi Siswa

Id:

1

Nama:

Noval

Posisi:

XIRPL3

Hobi:

Melihat Kecoak

Profile:

Kirim

- Data berhasil di edit

F. Delete Data

- delete.php

```php
<?php
include_once 'connect.php';
include_once 'hobi.php';

$database = new Database();
$db = $database->getConnection();

$hobi = new hobi($db);
$hobi->id = $_GET["ID"];

$hasil = $hobi->delete();

if ($hasil) header("Location: ./");
else echo "<h1>Data Gagal Dihapus<h1><br> - <a href=\"./\">Back Home</a>";
?>
```

- delete_action.php

```php
<?php
include_once 'connect.php';
include_once 'hobi.php';

$database = new Database();
$db = $database->getConnection();

$hobi = new hobi($db);
$hobi->id = $_GET['ID'];

$hasil = $hobi->delete();

if($hasil) {
    header('location: ./');
} else {
    echo "<h1>";
    echo "data tidak bisa di hapus.";
    echo "</h1>";
    echo " - <a href=\"./\">Back Home</a>";
}

?>
```
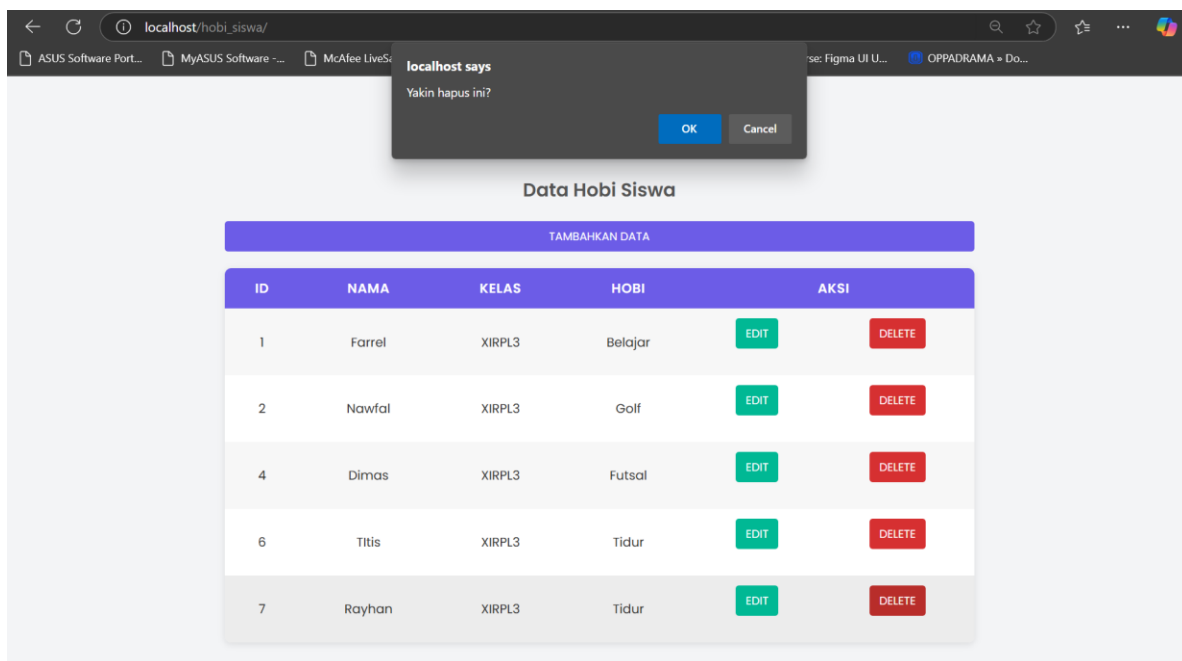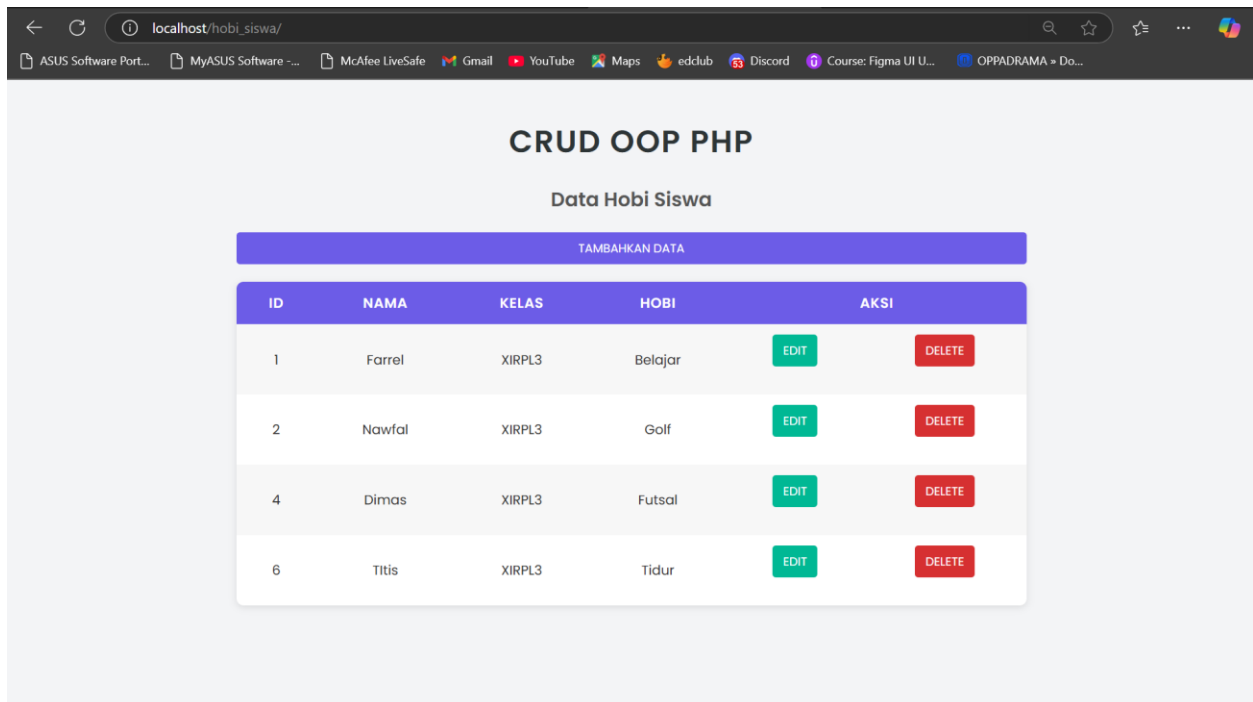
- Menghapus data

- Data berhasil terhapus

II. Login

a. Membuat tabel baru dengan nama users
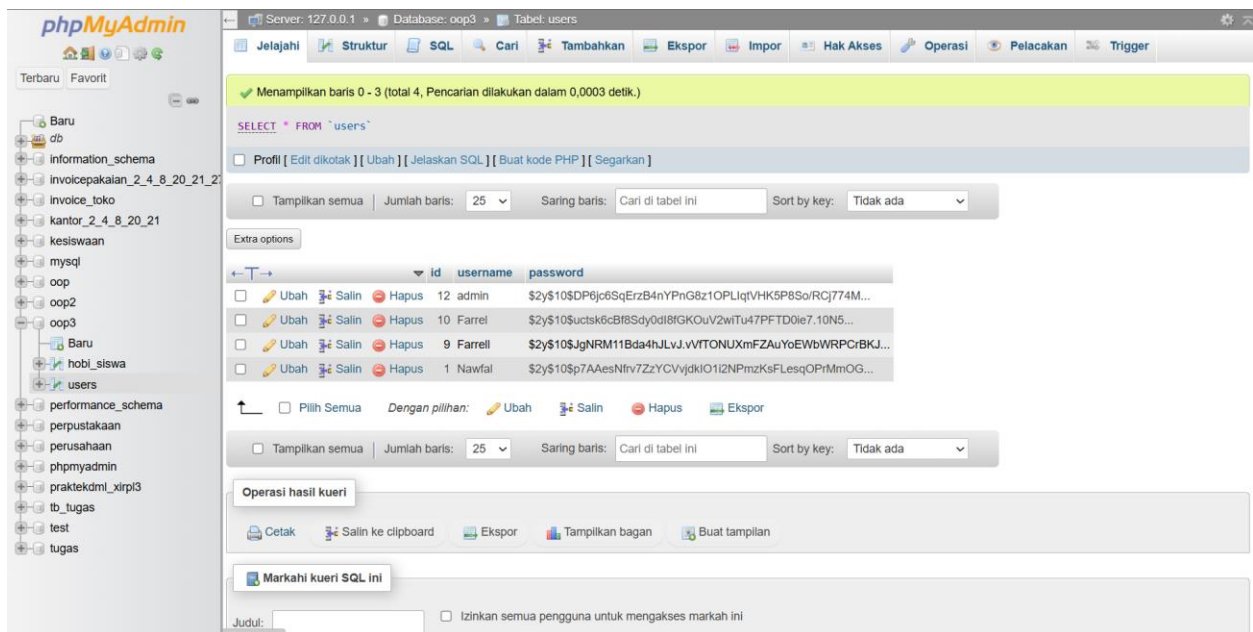
b. Buat folder baru dengan nama Login di htdocs

Name	Date modified	Type	Size
📁 dashboard	8/5/2024 7:20 AM	File folder	
📁 hobi_siswa	10/29/2024 5:43 PM	File folder	
📁 img	8/5/2024 7:20 AM	File folder	
📁 LatihanPhp	10/4/2024 8:26 AM	File folder	
📁 LatihanPHP2	9/30/2024 2:41 PM	File folder	
📁 Login	10/30/2024 8:24 AM	File folder	
📁 webalizer	8/5/2024 7:20 AM	File folder	
📁 xampp	8/5/2024 7:20 AM	File folder	
🌐 applications	6/15/2022 11:07 PM	Microsoft Edge HTM...	4 KB
# bitnami	6/15/2022 11:07 PM	CSS Source File	1 KB
📄 Catanan hari kamis 5 september	9/5/2024 8:14 AM	Text Document	1 KB
favicon	7/16/2015 10:32 PM	ICO File	31 KB
🌐 form	9/11/2024 8:55 AM	Microsoft Edge HTM...	2 KB

c. Buat file koneksi dengan nama connect.php

```php
<?php
class Database {
    private $host = "localhost";
    private $db_name = "oop3";
    private $username = "root";
    private $password = "";

    public $conn;
    public function getConnection() {
        $this->conn = null;
    try {
        $this->conn = new PDO("mysql:host=" .$this->host. ";dbname=" .$this->db_name, $this->username, $this->password);
        $this->conn->exec("set names utf8");
        $this->conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    } catch(PDOException $exception) {
        echo "Connection error:" .$exception->getMessage();
    }
    return $this->conn;
    }
}
?>
```

d. Buat file dengan nama dashboard.php

```php
<?php
//index.php
require_once 'config/connect.php';
require_once 'classes/user.php';

$database = new Database();
$db = $database->getConnection();
$user = new User($db);

if($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST['username'];
    $password = $_POST['password'];

    if($user->login($username, $password)) {
        header("Location: /hobi_siswa");
        exit();
    } else {
        $eror_message = "Username atau password salah!";
    }
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
</head>
<body class=" ">
    <div class="container mt-5">
        <div class="row justify-content-center">
            <div class="col-md-4">
                <h3 class="text-center">Login</h3>
                <?php if(isset($eror_message)): ?>
                    <div class="alert alert-danger"><?php echo $eror_message;
?></div>
                <?php endif; ?>
                <form action="" method="POST" class="">
```

```
                    <div class="form-group">
                        <label>Username</label>
                        <input type="text" name="username" class="form-control"
required>
                    </div>
                    <div class="form-group">
                        <label>Password</label>
                        <input type="password" name="password" class="form-
control" required>
                    </div><br>
                    <div class="d-flex justify-content-sm-between">
                        <button type="submit" class="btn btn-primary btn-block
align-middle">Login</button>
                        <a href="forgot.php">Forgot Password</a>
                    </div>
                    <div>
                        <a>Don't have an account?</a><a href="register.php">
register now</a>

            </form>
</body>
</html>
```

f. buat file user.php

```php
<?php
//clases/user.php
require_once 'config/connect.php';

class User{
    private $conn;
    private $table_name = "users";

    public function __construct($db) {
        $this->conn =$db;
    }

    /**
     * mengecek kredensial login
     * @param string $username
     * @param string $password
     * @return boolean
     */
```

```php
    public function login($username, $password) {
        //Query untuk mengambil data user yang sesuai dengan username yang
diinput
        $query = "SELECT * FROM " . $this->table_name . " WHERE username =
:username LIMIT 1";
        $stmt = $this->conn->prepare($query);
        $stmt->bindParam(":username", $username);
        $stmt->execute();

        //Jika ada data user yang sesuai dengan username yang diinput
        if($stmt->rowCount() > 0){
            //ambil data user yang sesuai dengan username yang diinput
            $row = $stmt->fetch(PDO::FETCH_ASSOC);
            //Jika password yang diinput sesuai dengan password yang tersimpan di
database
            if(password_verify($password, $row['password'])){
                //mulai sesi dan simpan username
                session_start();
                $_SESSION['username'] = $username;
                //kembalikan true
                return true;
            }
        }
        //kembalikan false jika tidak ada data user yang sesuai dengan username
yang diinput atau password yang diinput tidak sesuai dengan password yang
tersimpan di database
        return false;
    }

    //mfungasi menambah user baru
    public function register($username, $password) {
        $query = "INSERT INTO " . $this->table_name . " (username, password)
VALUES (:username, :password)";
        $stmt = $this->conn->prepare($query);

        //enkiripsi password sebelum disimpan
        $hashed_password = password_hash($password, PASSWORD_DEFAULT);

        $stmt->bindParam(":username", $username);
        $stmt->bindParam(":password", $hashed_password);

        try {
            if($stmt->execute()) {
                return true;
            }
```

```
        }catch(PDOException $exception) {
            return false;
        }

        return false;
    }
}
```

g. buat file register.php

```php
<?php
//register.php
require_once './config/connect.php';
require_once './classes/user.php';

$database = new Database();
$db = $database->getConnection();
$user = new User($db);

if($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST['username'];
    $password = $_POST['password'];

    if($user->register($username, $password)) {
        $sucsess_message = "Registrasi berhasil, Silahkan login.";
    } else {
        $error_message = "Registrasi gagal, Username mungkin sudah digunakan.";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Register</title>
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">
</head>
<body>
```

```php
    <div class="container mt-5">
        <div class="row justify-content-center">
            <div class="col-md-4">
                <h3 class="text-center">Registration</h3>
                <?php if(isset($error_message)): ?>
                    <div class="alert alert-danger"><?php echo $error_message;
?></div>
                <?php endif; ?>
                <?php if(isset($sucsess_message)): ?>
                    <div class="alert alert-success"><?php echo $sucsess_message;
?></div>
                <?php endif; ?>
                <form action="" method="POST" class="">
                    <div class="form-group">
                        <label>Username</label>
                        <input type="text" name="username" class="form-control"
required>
                    </div>
                    <div class="form-group">
                        <label>Password</label>
                        <input type="password" name="password" class="form-
control" required>
                    </div><br>
                    <div>
                        <button type="submit" class="btn btn-primary btn-block
align-middle">Register</button>
                    </div>
                    <div>
                        <a>Already have an account?</a><a href="dashboard.php">
sign in now</a>

                </form>
</body>
</html>
```
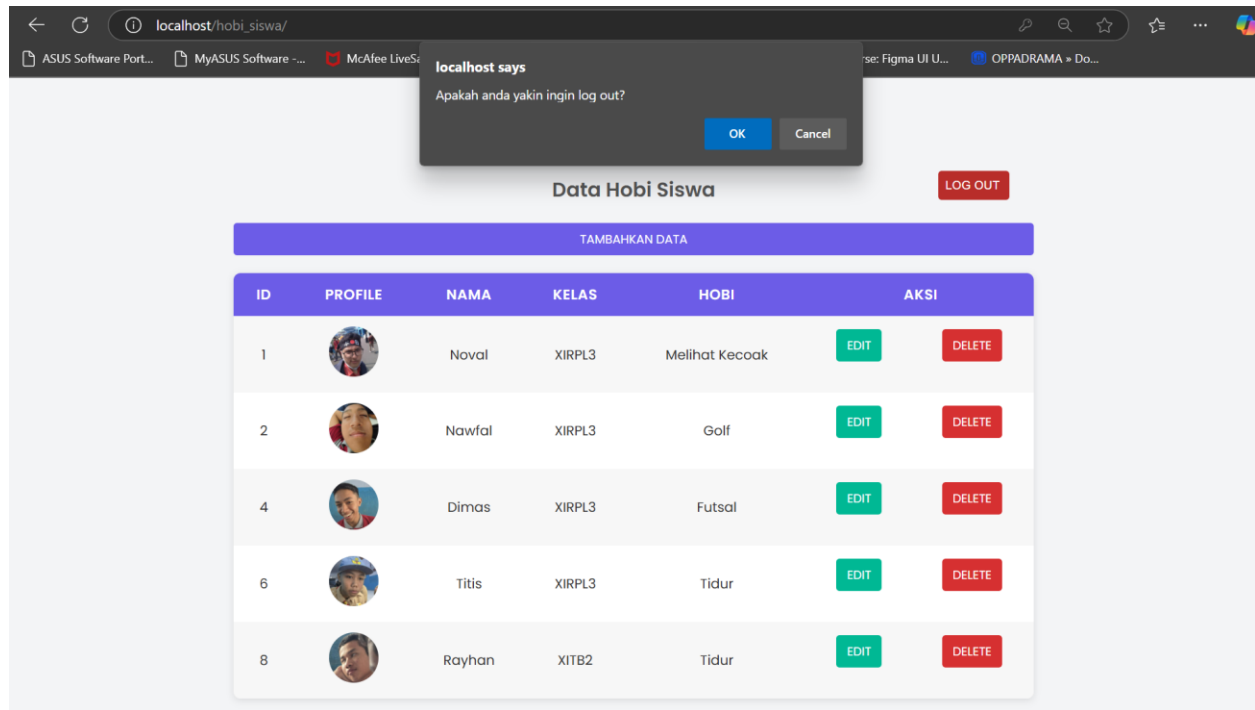
III. Hasil

a. Dashboard

b. Register

c. Registrasi berhasil

Registration

Registrasi berhasil, Silahkan login.

Username

Password

Register

Already have an account? sign in now

d. Registrasi gagal

Registration

Registrasi gagal, Username mungkin sudah digunakan.

Username

Password

Register

Already have an account? sign in now

e. Login berhasil

f. Login gagal

g. Log out