

**PRAKTIKUM**  
**PEMROGRAMAN WEB**  
**SEMESTER GENAP TAHUN AKADEMIK 2021/2022**

Tanggal

30 Mei 2022

Materi

PHP dan Database.

**PRODI SISTEM INFORMASI  
FAKULTAS TEKNIK  
UNIVERSITAS NUSANTARA PGRI KEDIRI**

## BAB I

### DASAR TEORI

\* MySQL API (Application Programming Interface)

merupakan komponen yang digunakan untuk berkomunikasi dengan database MySQL melalui PHP

\* Prosor Query Data base.

- Membuat koneksi ke server data base dan menentukan database yang akan digunakan
- Membuat SQL (Structure Query language)
- Melakukan proses query
- Mengumpulkan hasil query kedalam sebuah variable untuk di tampilkan

### My. SQLi

MySQL Improved merupakan teknik pengaksesan terhadap database MySQL yang merupakan perkembangan dari PHP 5.x atau yang paling banyak menggunakan MySQL memungkinkan untuk mengakses stored procedure, stored function atau prepared statement.

MySQL extension memiliki sejumlah manfaat di antaranya adalah :

- Menggunakan interface object oriented.
- Mendukung penggunaan prepared statement.
- Mendukung penggunaan multiple statement
- Mendukung kegunaan transaction
- Meningkatkan terhadap kemampuan pencarian kesalahan program
- Mendukung Pengabungan Server

berikut ini daftar API MySQL yang umum dipakai sebagai berikut

API	Fungsi
MySQL → Query	Mengirimkan query ke database yang aktif
\$ MySQL result → Fetch - array	Menampilkan data hasil query yang dapat diakses dengan nomor array field atau nama field.
\$ MySQL - result → num - rows	Mengambil jumlah baris / data hasil dari proses query
\$ MySQL → Error	Menampilkan pesan kesalahan atau kegagalan koneksi

### Koneksi Database

Contoh koneksi database MySQL menggunakan API MySQL dan PHP

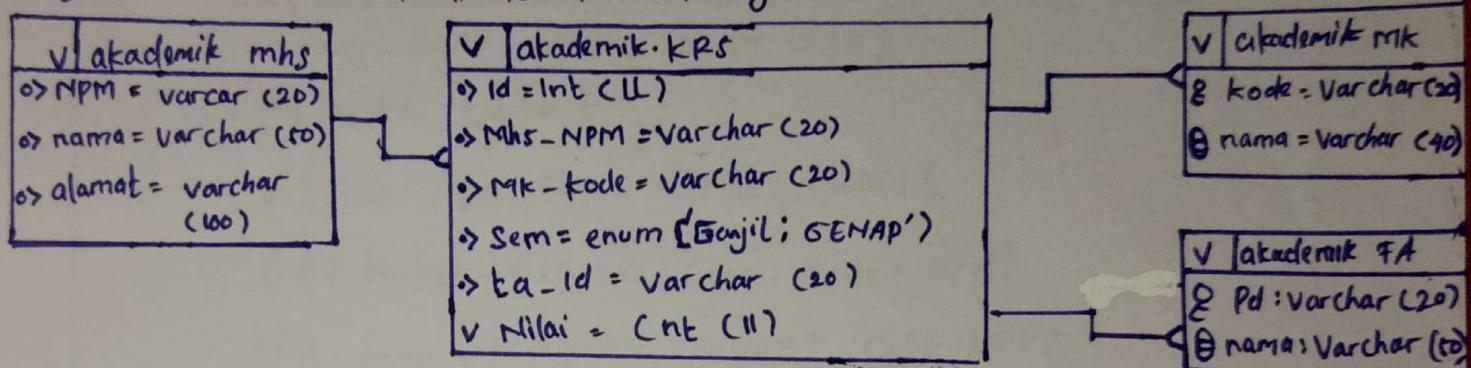
```
<? PHP  
// mendefinisikan variabel  
$ host name = "localhost"; // alamat Server db MySQL  
$ Username = "root"; // Username db MySQL  
$ Password = "az"; // password db MySQL  
$ database = "akademik"; // nama db MySQL  
  
$ koneksi = New MySQLi ($ hostname, $ Username, $ password, $ database)  
or die ("koneksi Server database gagal". MySQL → error());  
echo "koneksi Server Database Berhasil";  
?  
?>
```

## BAB II

### PERCOBAAN DAN LATIHAN

- \* Membuat database dengan nama akademik
- \* Membuat table dengan nama krs, mhs, MK dan ta.

Gambar database akademik dan relasinya.



Membuat koneksi PHP dan Sesuaikan Username dan password pada database

```
<? PHP
$ Server name = "localhost";
$ Username     = "root";
$ Password      = "a";
$ db name       = "akademik";

//creat Connection
$ Conn = New MySQLi ($Servername, $Username, $parword, $db name);

//Check Connection
IF ($Conn → Connect - error) {
    die ("Connection Failed, ". $Conn → Connect error);
}
?>
```

Koneksi PHP

File PHP dengan nama Index.php dengan Format HTML

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title></title>
    <style type="text/css">
        a { text-decoration: none; font-size: 15px; font-family: sans-serif; padding: 10px 10px 0 0; }
        ul { padding: 0 0 0 20px; }
        li { list-style: none; display: inline; }
        li a { background: #222; color: #d9d9d9; }
        li a:hover { background: #a1a1ff; color: #1a1aff; }
        .navi { background: #222; height: 50px; }
    </style>
</head>
<body>
    <nav class="navi">
        <ul>
            <li><a href="mhs.php">mahasiswa</a></li>
            <li><a href="krs.php">krs</a></li>
            <li><a href="mk.php">mk</a></li>
            <li><a href="ta-PhP">ta PhP</a></li>
        <ul>
    <nav>
</body>
</html>
```

file PHP dengan nama menu.php

```
<a href="mhs.php">New</a> | <a href="mhs-add.php">ADD</a>
```

file PHP dengan nama mhs.php.

```
<? PHP  
    include 'koneksi.php';  
    include 'index.php';  
?>  
<!DOCTYPE html>  
<html>  
<head>  
<title>mhs</title>  
</head>  
<body>  
    <h2 align="Center"> mahasiswa </h2>  
    <{ PHP include 'menu.php'; }>  
    <table width='100%' border='1'>  
        <thead>  
            <tr>  
                <th width='50%'> No. </th>  
                <th width='20%'> Nama </th>  
                <th width='10%'> NPM </th>  
                <th width='10%'> Alamat </th>  
            </tr>  
        </thead>  
        <tbody>  
        <? php ..  
            $ SQL = "Select * From mhs";  
            $ TCS = $ Conn->query($ SQL);  
            if ($ TCS->num_rows > 0) {  
                $ i = 0;  
                while ($ dat = $ TCS->fetch_assoc()) {  
                    $ i++;  
                    echo "$ i  
                }  
            }  
        </tbody>  
    </table>
```

Lanjutan Di Belakang

```
<td> $i </td>
<td> <a href="mhs-detail.php?npm=$dat['AMP;']> Febit </a> </td>
<td> $dat["npm"] </td>
<td> $dat["nama"] </td>
<td> $dat["Alamat"] </td>
</tr>
}
}
?>
<!body>
<!table>
<!body>
</html>
```

file PHP Untuk Form tambah data dengan nama mhs-add.php

```
<!DOCTYPE html>
<html>
<head>
<title>mhs add </title>
</head>
<body>
<{ Php include 'menu.php' }>
<br>
<Form name= "myForm" action= "mhs-prol.php" method= "Post ">
  UPM
  <br>
  <Input type = "Text" name = "npm" id = "npm">
  <br> Nama <br>
  <Input type = "Text" name = "name" id = "name" size = "30" >
  <br> Alamat <br>
  <Input type = "Text" name = "Alamat" id = "Alamat" size = "30" >
  <br>
  <Input type = "Submit" name = "Submit.add" id = "Submit.add" value = "Simpan">
</form>
</body>
</html>
```

File PHP untuk mengedit data dengan nama mhs-detail.php

```
<?php
include 'koneksi.php';
$npm = $_GET['NPM'];
$Sql = "Select * from mhs where npm = '$npm'";
$Rcs = $Conn->query($Sql);
$dta = $Rcs->fetch_array();
:>

<!DOCTYPE html>
<html>
<head>
<title>mhs Edit </title>
</head>
<body>
<{ Php include' Menu. PHP : }>
<br>
<Form name = "My Form" action = "mks(Proc.php" method = "post">
    NPM
    <Input type = "text". name = "npm" id = "npm" value = "<?=$dta['npm']?>">
    Nama
    <Input type = "nama" name = "nama" id = "nama" value = "<?=$dta['nama']?>">
    Alamat
    <Input type = "Alamat" name = "Alamat" id = "Alamat" value = "<?=$dta['Alamat']?>">
    <Input type = "Submit" name = "Submit-edit" value = "berikan" >
    <Input type = "Submit" name = "Submit delete" id = "Submit delete" value = "Hapus" >
</Form>
</body>
</html>
```

## File PHP Untuk memproses data mhs.php

PHP

Include 'koneksi.php';

IF (\$\_POST['Submit-add']) {

\$npm = \$\_POST['npm'];

\$nama = \$\_POST['nama'];

\$alamat = \$\_POST['alamat'];

\$sql = Insert Into mhs(npm, nama, alamat)

Value \$('npm', '\$nama', '\$alamat')";

IF (! \$npm query (\$sql)) {

die ('Tambah mhs gagal');

} else {

header ("location: mhs.php");

}

}

IF (isset(\$\_POST['Submit-edit'])) {

\$npm = \$\_POST['npm'];

\$nama = \$\_POST['nama'];

\$alamat = \$\_POST['alamat'];

\$sql = Update mhs set nama = '\$nama', alamat = '\$alamat' where npm = '\$npm';

IF (! \$conn->query (\$sql)) {

die ('edit mhs gagal');

}

else {

header ("location: mhs.php");

}

IF (isset(\$\_POST['Submit-delete'])) {

\$npm = \$\_POST['npm'];

\$sql = Delete from mhs where npm = '\$npm'";

IF (! \$conn->query (\$sql)) {

die ('hapus mhs gagal');

}

else {

header ("action: mhs.php");

}

}

## file PHP Untuk menampilkan data dengan nama mk.php

{ PHP

include 'koneksi.php';

include 'index.php';

;

<!DOCTYPE html>

<html>

<head>

</title> matkulah </title>

</head>

<body>

<h2 align="Center"> matkulah </h2>

<a href="mk.php"> Lihat </a> | <a href="mk-add.php"> Tambah </a>

<Table width="100%" border="1">

</head> <tr>

<th width="2%"> NO </th>

<th width="5%"> akt </th>

<th width="100%"> Kode </th>

<th width="10%"> nama </th>

</tr>

</head>

</body>

<?php

\$sql = "Select \* From me"

\$rct = \$conn->query(\$sql);

if (\$rct->atme-rows == 20) {

\$i = 0;

while (\$dat = \$rct->fetch-assoc()) {

\$i++;

echo "<tr align="center">

<td:\$user=

(td)< a href="mk-detail.php?kode=\$dat['kode']> edit (but)

<td>

<td>- \$dat['kode'] - <td>

<td>- \$dat['name'] - <td>

</tr>";

}

</body>

</table>

</body>

</html>

file PHP untuk form tambah data dengan nama mk.add.PHP

```
<!DOCTYPE html>
<html>
<head>
<title> mata kuliah </title>
</head>
<body>
    <h2> mata kuliah add </h2>
    <a href="mk.php"> lihat </a> | <a href="mk.add.php"> Tambah </a>
    <form name="myForm" action="mk.proc.php" method="post">
        Kode <br>
        <input type="text" name="kode" id="kode" value="">
        <br> Nama <br>
        <input type="text" name="name" id="name" size="30" value="">
        <br>
        <input type="Submit" name="mk-name" id="mk-add" value="Simpan" >
    </form>
</body>
</html>
```

File PHP untuk mengedit data mk dengan nama mk-detail.php.

```
<?PHP
    include 'koneksi.php';
    $kode = $_GET['kode'];
    $sql = "Select * From mk";
    $rcc = mysqli_query($sql);
    $dat = $rcc -> fetch_assoc();
?>
<!DOCTYPE html>
<HTML>
<head>
<body>
    <h2> mata kuliah add </h2>
    <a href="mk.php"> lihat </a> | <a href="mk-add.php"> TAMBAH </a>
    <br> Form nama = "myForm" action = "mk-proc.php" method = "post" >
        Kode <br>
        <input type="text" name="kode" id="kode" value = "< ? > = $dat['kode'] < ? >">
        <br> Nama <br>
        <input type="text" name="id=name" value = "< ? > = $dat['name'] < ? >">
        <br>
        <input type="Submit" name="mk-edit" id="mk-edit" value="Perbarui" >
        <input type="Submit" name="delete" id="mk-delete" value="Hapus" >
    </form>
</body>
</HTML>
```

## File PHP Untuk proses data dengan nama mtk.proc.php

?php

```
Include 'koneksi.php';
IF (isset($_POST['mk-add'])) {
    $kode = $_POST['kode'];
    $nama = $_POST['nama'];
    $sql = "Insert into mtk (kode, nama)
            Values ('$kode', '$nama')";
    IF (!($conn->query($sql))) {
        die ('Tambah me gagal');
    }
    ELSE {
        header ('action: mtk.php');
    }
}

IF (isset($_POST['mk-edit'])) {
    $kode = $_POST['kode'];
    $nama = $_POST['nama'];
    $sql = "UPDATE MTK SET nama='$nama' WHERE kode=$kode";
    IF (!($conn->query($sql))) {
        die ('edit mhs gagal');
    }
    ELSE {
        header ('action: mtk.php');
    }
}

IF (isset($_POST['mk-delete'])) {
    $kode = $_POST['kode'];
    $sql = "Delete FROM mtk WHERE kode='$kode'";
    IF (!($conn->query($sql))) {
        die ('hapus Tahun kode mtk gagal');
    }
    ELSE {
        header ('action: mtk.php');
    }
}
?}
```

file PHP menampilkan data dengan nama fa.php

? PHP

Include 'koneksi.php';

Include 'index.php';

:>

<!DOCTYPE html:

<html>

<head>

</title> Tahun akademik </title>

</head>

<body>

<h2 align="Center"> Tahun akademik </h2>

<a href="ta.php"> Lihat </a> | <a href="ta-add.php"> Tambah </a>

<table width="100%" border="1">

<thead>

<tr> <th width="2%"> no </th>

<th width="5%"> Sct </th>

<th width="15%"> ID </th>

<th width="25%"> Nama </th>

</tr>

</thead>

</table>

<?php

\$sql = "Select \* from ta";

\$res = \$conn -> query (\$sql);

IF (\$res -> num\_rows == 0) {

\$i = 0;

}

?>

</body>

</table>

</body>

</html>

File PHP untuk menambah dengan nama ta\_add.php

```
<!DOCTYPE html>
<html>
<head>
<title> Tahun akademik add </title>
</head>
<body>
    <a href = "ta.php"> tittle <a> | <a href = "ta-add"> Tambah <a>
    <br>
    <Form name = "my Form" action = "ta.proc.php" method = "post">
        <ID> <br>
        <input type = "text" name = "id" id = "id">
        <br> Nama <br>
        <input type = "Submit" name = "ta-add" id = "ta-add" >
    </form>
</body>
</html>
```

File mhs untuk mengetik data dengan nama ta dengan PHP

```
<?php
    include 'koneksi.php';
    $id = $_GET['id'];
    $sql = "Select * from ta where id = '$id'";
    $res = $conn -> query($sql);
    $dat = $res -> fetch_assoc();
?>
<!DOCTYPE html>
<html>
<head>
<title> ta edit </title>
</head>
<body>
    <a href = "ta.php"> Lihat <a> | <a href = "ta-add.php"> Tambah <a>
    <br>
    <Form name = " my Form" action = "ta-proc.php" method = "post">
        <ID> <br>
        <input type = "text" name = "id" id = "nama" size = 30 text "<?=$dat[name]>">
        <input type = "Submit" name = "ta-edit" id = "ta-edit" value = "Perbarui" >
        <input type = "Submit" name = "ta-delete" id = "ta-delete" value = "Hapus" >
    </form>
</body>
</html>
```

## File PHP Untuk memproses data dengan nama E9-proc.php

? PHP

```
Include 'koneksi PHP';
IF (isset($_POST['ta-add'])) {
    $id = $_POST['id'];
    $nama = $_POST['name'];
    $sql = "Insert into ta (id,nama);
            value ('$id','$nama')";
    IF (!conn->query($sql)) {
        die('tambah mhs gagal');
    }
    else {
        header ("location: E9.php");
    }
}
```

```
IF isset($_POST['ta-edit']) {
    $id = $_POST['id'];
    $nama = $_POST['name'];
    $sql = "Update ta SET nama = '$nama' WHERE id = '$id'";
    IF (!conn->query($sql)) {
        die('edit gagal');
    }
    else {
        header ("location: E9.php");
    }
}
```

```
IF isset($_POST['ta-delete']) {
    $id = $_POST['id'];
    $sql = "DELETE FROM ta WHERE id = '$id'";
    IF (!conn->query($sql)) {
        die('hapus TR gagal');
    }
}
else {
    header ("location: E9.php");
}
?>
```

File PHP menampilkan data KRS dengan nama krs.php

E? PHP.

Include 'koneksi.php';

Include 'index.php';

??

<!DOCTYPE HTML>

<HTML>

<head>

<title> KRS </title>

<head>

<body>

<h2 align="center"> KRS </h2>

<a href="krs.php"> LIHAT </a> <a href="krs-add.php"> ditambah </a>

<table width="100%" border="1">

<thead>

<tr> <th width="20%"> No. </th>

<th width="5%"> akt. </th>

<th width="5%"> ID </th>

<th width="15%"> mhs </th>

<th width="15%"> nik - kode </th>

<th width="5%"> sem </th>

<th width="5%"> ksr-id </th>

<th width="5%"> Nilai </th>

<tr>

<thead>

<tbody>

<?php

\$sql = "select \* from krs";

\$rks = \$conn -> query (\$sql);

If (\$rks -> num\_rows > 0) {

\$i=0;

while (\$dat = \$rks -> fetch\_assoc ()) {

\$i++;

→ lanjutan di belakang

```
<?php
$dat = $row;
echo "<table border='1'><tr><td>No</td><td>$dat[id]</td><td>$dat[nama]</td><td>$dat[kode]</td><td>$dat[sem]</td><td>$dat[tarif]</td><td>$dat[Nilai]</td></tr></table>";
}

}
}

</body>
</table>
</body>
</html>
```

File untuk menambah data dengan nama krs.add.PHP.

22 PHP

Include 'koneksi' PHP"

?

<!DOCTYPE html>

<html>

<head>

<title>KRS 2</title>

<body>

<h2>Tambah Data KRS </h2>

<a href="krs.php">Lihat</a> | <a href="krs-add.php">

<br>

<form action="krs-proc.php" method="post">

ID <br>

<input type="text" name="id"> <br>  
mhs-npm <br>

<select name="mhs-npm">

<?php

\$sql = "Select \* from mhs";

\$res = \$conn->query(\$sql);

while (\$row = \$res->fetch\_array(MYSQLI\_BOTH)) {

echo "<option value=\$row[kode]-\$row[nama]><option>";  
}

?>

<select> <br>

Sem <br>

<input type="text" name="ka-id">

<?PHP

\$sql = "Select \* from ta";

\$res = \$conn->query(\$sql);

while (\$row = \$res->fetch\_array(MYSQLI\_BOTH)) {

echo "<option value=\$row[id]>\$row[nama]<option>";  
}

</body>

</html>

Tambah </a>

File PHP mengedit data krs dengan nama krs\_detail.php

```
<?PHP >
    include 'koneksi.php';
    $id = GET['id'];
    $sql = "Select * from krs where id = '$id'";
    $res = $conn->query($sql);
    $row = $res->fetch_array(MYSQL_BOTH);

?>
<!DOCTYPE html>
<html>
<head>
<title>krs </title>
</head>
<body>

<h2> krs edit </h2>
<a href="krs.php"> Lihat </a> | <a href="krs-add.php"> Tambah </a>
<br>
<form action="krs-proc.php" method="POST">
    ID <br>
    <input type="text" name="id" value="<?=$row[id]??">
    <br> mhs-npm <br>
    <Select name="mhs-npm">
        <?php
            $sql = "Select * from mhs";
            $res = $conn->query($sql);
            while ($mhs = $res->fetch_array(MYSQL_BOTH)) {
                if ($mhs['kode'] == $row['me-kode']) {
                    $Select = 'Selected="Selected"';
                } else {
                    $Select = "";
                }
                echo "<option value=\"$mhs[kode]-$mhs[nama]\" $Select>";
            }
        ?>
        Sem <br>
        <input type="text" name="Sem" value="<?=$row['sem']??">
    </Select>
</form>
```

```

ta-id <br>
< Select name = "ta_id"
?> PHP
    $ sql = "Select * From ta";
    $ res = $conn->query($sql);
    while ($ta = $res->fetch_array(MYSQLI_BOTH)) {
        if ($ta['id'] == $row['ta_id']) {
            $select = 'Selected';
        }
    }
    Use
    $ select = '';
    echo "<option value = '$ta[id]' $select>" . $ta['nama'] . "</option>";
}
?>
</Select><br>
nilai <br>
<input type = "text" name = "nilai" value = ?row[nilai]> ><br>
<input type = "submit" name = "edit" value = "PERBARUI">
<input type = "submit" name = "Delete" value = "HAPUS">
onklik = "return confirm('Yakin menghapus Data ini?')>
</Form>
</body>
</html>

```

File PHP Memproses data dengan nama krs-proc-PHP

?PHP

Include 'koneksi' PHP

IF (!isset (\$post ['krs-add'])) {

\$id = \$post ['id'];

\$mhs-npm = \$post ['mhs-npm'];

\$mk-kode = \$post ['mk-kode'];

\$sem = \$post ['sem'];

\$ta-id = \$post ['ta-id'];

\$nilai = \$post ['nilai'];

sql = insert into krs (id, mhs-npm, mk-kode, sem, ta-id, nilai) values  
(\$id, '\$mhs-npm', '\$mk-kode', '\$sem', '\$ta-id', '\$nilai');

IF (!conn->query (\$sql)) {

die ('Tambah krs gagal');

}

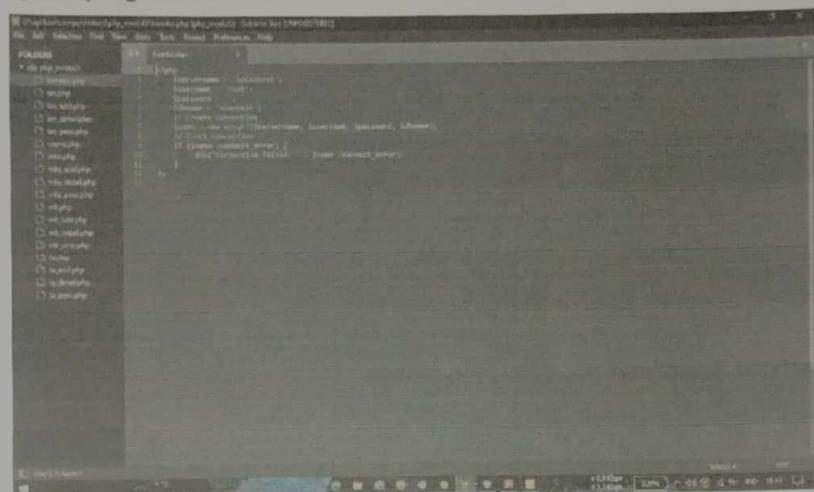
header ('Content-type: krs.php');

?>

### III

## TAMPILAN PROGRAM

Tampilan program koneksi



```
File Edit Selection Find View Status Tools Window Preferences Help

PROJECTS
+ db_koneksi
  - db_koneksi.php
    - db.php
    - db_connect.php
    - db_crud.php
    - db_insert.php
    - db_update.php
    - db_delete.php
    - db_select.php
    - db_query.php
    - db_header.php
    - db_footer.php
    - db_crud.php
    - db_update.php

EDITOR
db_koneksi.php

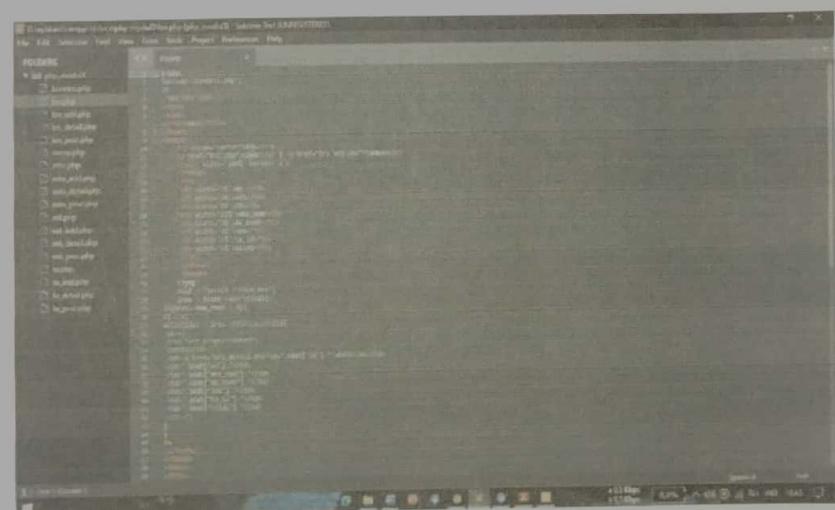

```

<?php
class db {
    var $conn;
    function __construct() {
        $this->conn = new mysqli("localhost", "root", "", "db_koneksi");
        if ($this->conn->connect_error) {
            die("Connection failed: " . $this->conn->connect_error);
        }
    }
    function connect() {
        return $this->conn;
    }
}
$koneksi = new db();

```


```

Tampilan program krs



```
File Edit Selection Find View Status Tools Window Preferences Help

PROJECTS
+ db_koneksi
  - db_koneksi.php
    - db.php
    - db_connect.php
    - db_crud.php
    - db_insert.php
    - db_update.php
    - db_delete.php
    - db_select.php
    - db_query.php
    - db_header.php
    - db_footer.php
    - db_crud.php
    - db_update.php

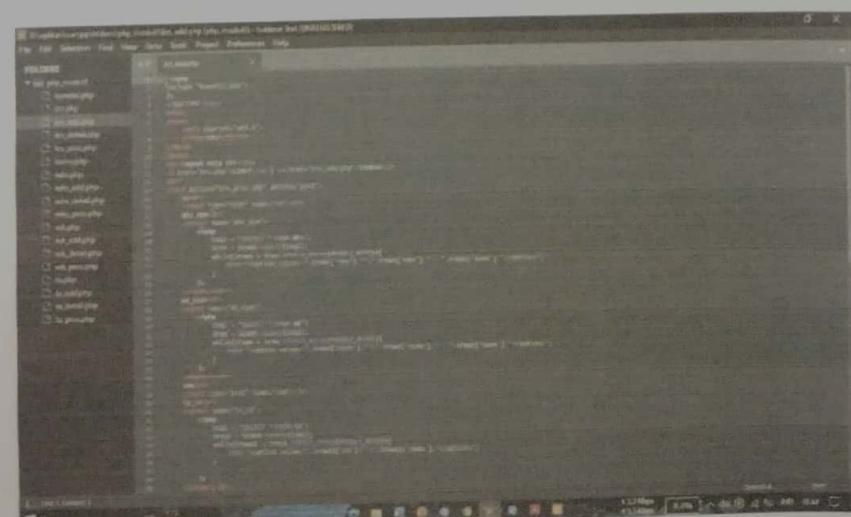
EDITOR
db_koneksi.php


```

<?php
class db {
    var $conn;
    function __construct() {
        $this->conn = new mysqli("localhost", "root", "", "db_koneksi");
        if ($this->conn->connect_error) {
            die("Connection failed: " . $this->conn->connect_error);
        }
    }
    function connect() {
        return $this->conn;
    }
}
$koneksi = new db();

```


```



```
File Edit Selection Find View Status Tools Window Preferences Help

PROJECTS
+ db_koneksi
  - db_koneksi.php
    - db.php
    - db_connect.php
    - db_crud.php
    - db_insert.php
    - db_update.php
    - db_delete.php
    - db_select.php
    - db_query.php
    - db_header.php
    - db_footer.php
    - db_crud.php
    - db_update.php

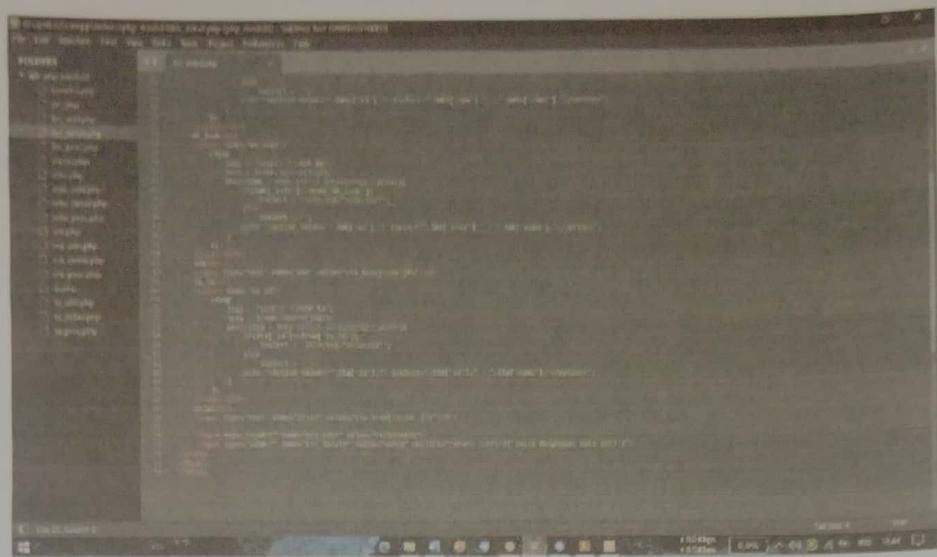
EDITOR
db_koneksi.php


```

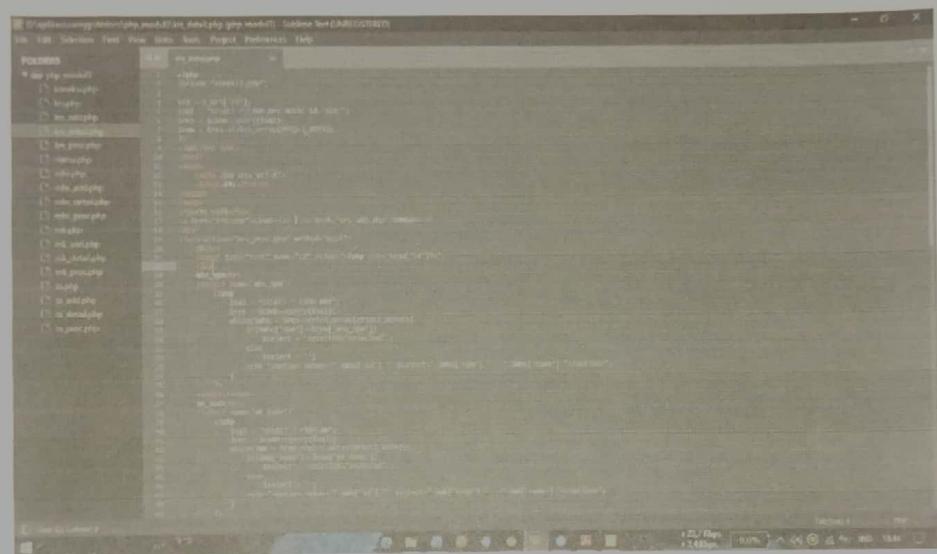
<?php
class db {
    var $conn;
    function __construct() {
        $this->conn = new mysqli("localhost", "root", "", "db_koneksi");
        if ($this->conn->connect_error) {
            die("Connection failed: " . $this->conn->connect_error);
        }
    }
    function connect() {
        return $this->conn;
    }
}
$koneksi = new db();

```

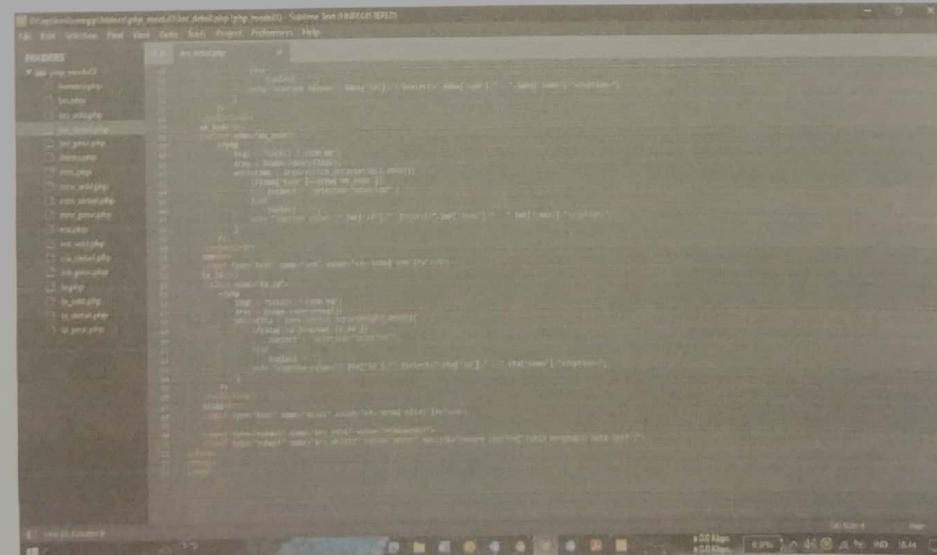

```



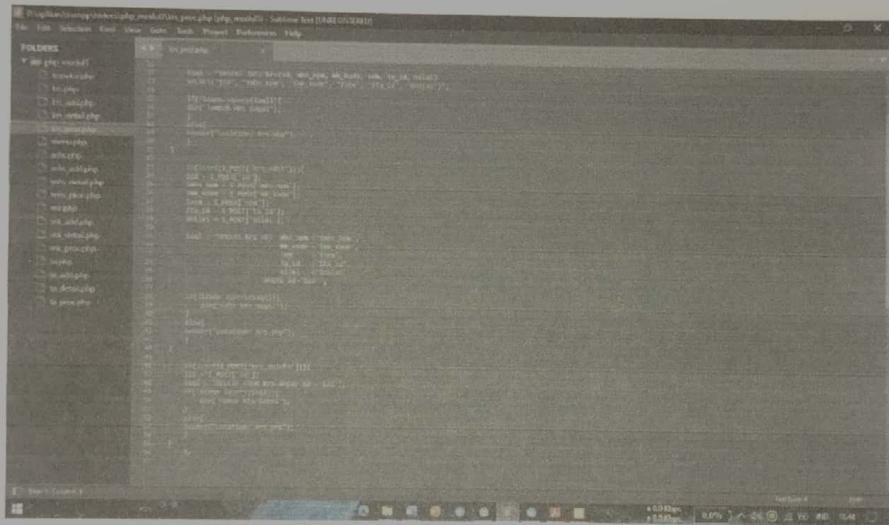
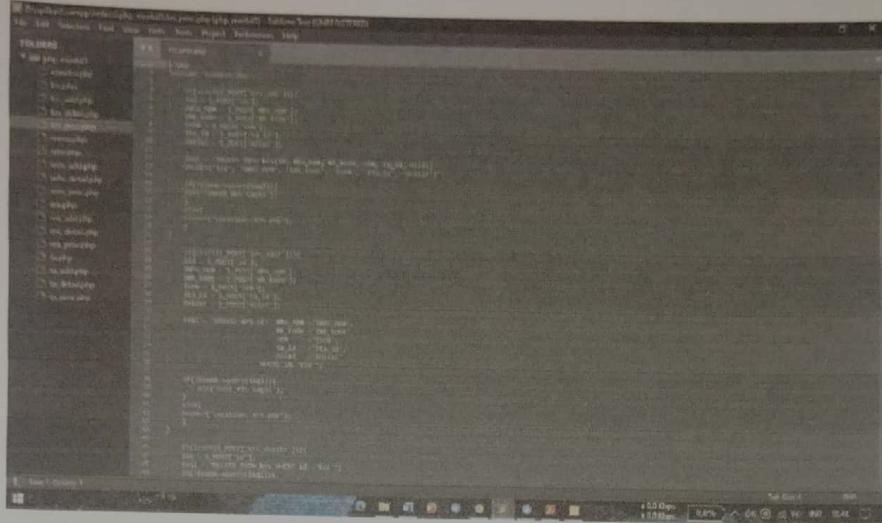
This screenshot shows a code editor window with a dark theme. The left sidebar displays a file tree with several PHP files under the 'src' directory. The main pane contains a large amount of PHP code, which appears to be a complex application or library. The code includes various functions, classes, and comments, typical of a large-scale web application.



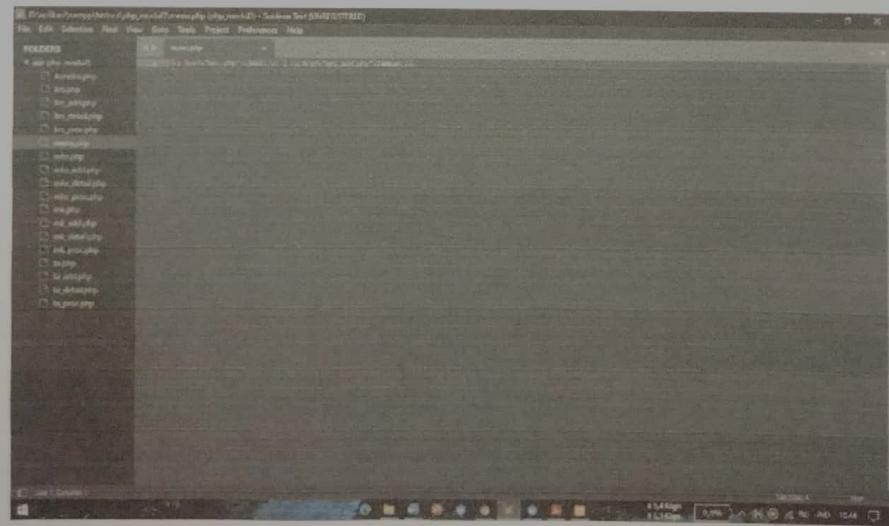
This screenshot shows a code editor window with a light theme. The left sidebar displays a file tree with many PHP files under the 'src' directory. The main pane shows a large block of PHP code, similar in structure to the one in the first screenshot, indicating it's the same or very similar application.



This screenshot shows a code editor window with a dark theme, identical to the first one. The left sidebar displays a file tree with many PHP files under the 'src' directory. The main pane shows a large block of PHP code, which is identical to the code in the first two screenshots, further confirming they are all from the same project.



Tampilan menu



## Tampilan mhs

```
mk@mk-Vostro-3471:~/Desktop/php/modul2$ php mk.module2
[2019-07-10 10:45:10] main.DEBUG: Module "mk.module2" was successfully loaded.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
```

Tampilan program mk

```
mk@mk-Vostro-3471:~/Desktop/php/modul2$ php mk.module2
[2019-07-10 10:45:10] main.DEBUG: Module "mk.module2" was successfully loaded.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
```

```
mk@mk-Vostro-3471:~/Desktop/php/modul2$ php mk.module2
[2019-07-10 10:45:10] main.DEBUG: Module "mk.module2" was successfully loaded.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
[2019-07-10 10:45:10] main.INFO: Application is running in dev environment.
```

```
function cek_login($username, $password) {
    $query = "SELECT * FROM user WHERE username = '$username' AND password = '$password'";
    $result = mysqli_query($conn, $query);
    if ($result) {
        $row = mysqli_fetch_assoc($result);
        if ($row['password'] == $password) {
            return true;
        } else {
            return false;
        }
    } else {
        return false;
    }
}

function cek_level($level) {
    if ($level == 'admin') {
        return true;
    } else {
        return false;
    }
}

function ambil_data() {
    $query = "SELECT * FROM user";
    $result = mysqli_query($conn, $query);
    if ($result) {
        $data = mysqli_fetch_all($result, MYSQLI_ASSOC);
        return $data;
    } else {
        return false;
    }
}

function tambah_data($data) {
    $query = "INSERT INTO user (username, password, level) VALUES ('$_POST[username]', '$_POST[password]', '$_POST[level]')";
    $result = mysqli_query($conn, $query);
    if ($result) {
        return true;
    } else {
        return false;
    }
}

function edit_data($id, $data) {
    $query = "UPDATE user SET username = '$_POST[username]', password = '$_POST[password]', level = '$_POST[level]' WHERE id = '$id'";
    $result = mysqli_query($conn, $query);
    if ($result) {
        return true;
    } else {
        return false;
    }
}

function hapus_data($id) {
    $query = "DELETE FROM user WHERE id = '$id'";
    $result = mysqli_query($conn, $query);
    if ($result) {
        return true;
    } else {
        return false;
    }
}
```

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

if (isset($_POST['username']) && isset($_POST['password'])) {
    $username = $_POST['username'];
    $password = $_POST['password'];

    $query = "SELECT * FROM user WHERE username = '$username' AND password = '$password'";
    $result = mysqli_query($conn, $query);
    if ($result) {
        $row = mysqli_fetch_assoc($result);
        if ($row['password'] == $password) {
            $_SESSION['username'] = $row['username'];
            $_SESSION['level'] = $row['level'];
            header('Location: dashboard.php');
        } else {
            echo "Login gagal! Silakan coba lagi.";
        }
    } else {
        echo "Terjadi kesalahan pada database!";
    }
}
?>
```

Tampilan program TA

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

if (isset($_POST['username']) && isset($_POST['password'])) {
    $username = $_POST['username'];
    $password = $_POST['password'];

    $query = "SELECT * FROM user WHERE username = '$username' AND password = '$password'";
    $result = mysqli_query($conn, $query);
    if ($result) {
        $row = mysqli_fetch_assoc($result);
        if ($row['password'] == $password) {
            $_SESSION['username'] = $row['username'];
            $_SESSION['level'] = $row['level'];
            header('Location: dashboard.php');
        } else {
            echo "Login gagal! Silakan coba lagi.";
        }
    } else {
        echo "Terjadi kesalahan pada database!";
    }
}
?>
```

```
index.php
class User {
    public $name;
    public $address;
    public $phone;

    public function getInfo() {
        return "Name: " . $this->name . ", Address: " . $this->address . ", Phone: " . $this->phone;
    }

    public function getAddress() {
        return $this->address;
    }

    public function getPhone() {
        return $this->phone;
    }
}
```

```
index.php
class User {
    public $name;
    public $address;
    public $phone;

    public function getInfo() {
        return "Name: " . $this->name . ", Address: " . $this->address . ", Phone: " . $this->phone;
    }

    public function getAddress() {
        return $this->address;
    }

    public function getPhone() {
        return $this->phone;
    }
}
```

```
index.php
class User {
    public $name;
    public $address;
    public $phone;

    public function getInfo() {
        return "Name: " . $this->name . ", Address: " . $this->address . ", Phone: " . $this->phone;
    }

    public function getAddress() {
        return $this->address;
    }

    public function getPhone() {
        return $this->phone;
    }
}
```

### Tampilan krs,krs add,krs edit



| KRs |     |      |           |          |       |        |       |
|-----|-----|------|-----------|----------|-------|--------|-------|
| No  | NIM | Nama | mhs_agama | mhs_kode | kew   | krs_id | aktif |
| 1   | 1   | abd  | islam     | 102991   | group | 1      | 0     |
| 2   | 2   | abd  | islam     | 102992   | group | 2      | 1     |



Tambah Data KRs

|              |                              |
|--------------|------------------------------|
| LAMAT TAMBAH | pt                           |
| pt           | 1                            |
| mhs_agama    | islam                        |
| mhs_kode     | 102991 - data tidak diindeks |
| kew          | group                        |
| aktif        | 0                            |
| krs_id       | 1                            |
| submit       | Simpan                       |



KRs Edit

|              |                                |
|--------------|--------------------------------|
| LAMAT TAMBAH | pt                             |
| pt           | 1                              |
| mhs_agama    | islam - mrs                    |
| mhs_kode     | 102991 - pertanyaan tanya data |
| kew          | group                          |
| aktif        | 0                              |
| krs_id       | 1 - 2022                       |
| submit       | PERBAIKAN                      |

Tampilan menu

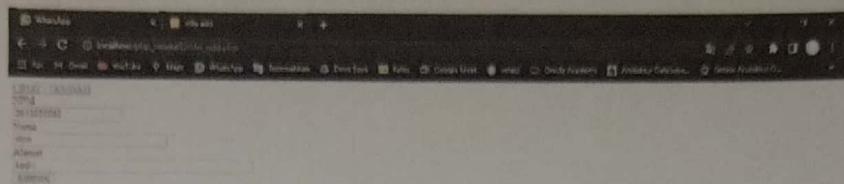


Tampilan mahasiswa,mahasiswa add,mahasiswa edit

Mahasiswa

| No. | Act  | NPM        | Nama               | Alamat                 |
|-----|------|------------|--------------------|------------------------|
| 1   | edit | 2013090017 | dent eddy underico | jl apukar gg 3         |
| 2   | edit | 2013090029 | laura              | pasirantang            |
| 3   | edit | 2013090032 | laura              | lectori                |
| 4   | edit | 2013090056 | laura              | inggris                |
| 5   | edit | 201309021  | laura              | jl panglima sakuratani |

NPM: 2013090027  
Nama: lala rina indriawati  
Alamat:  
Jalan: Jl. Panglima Sakuratani



### Tampilan mk,mk add,mk edit

| DAFTAR MATA KULIAH |      |        |                                  |
|--------------------|------|--------|----------------------------------|
| No.                | Akt. | Kode   | Nama                             |
| 1                  | Edit | SIF001 | praktikum basis data             |
| 2                  | Edit | SIF002 | praktikum sistem web             |
| 3                  | Edit | SIF003 | praktikum pemrograman web        |
| 4                  | Edit | SIF004 | pelatihan pemrograman basis data |



Mata Kuliah Edit

|                  |                    |
|------------------|--------------------|
| Kode             | SIF001             |
| Nama             | Matematika Diskret |
| Dosen Pembimbing | WANITA             |





#### Mata kuliah add

LEHAT TAHUN  
Tahun  
Nama  
2021  
2022



#### Tampilan TA, TA add, TA edt



#### Tahun Akademik

| No. | Akt | ID     | Nama |
|-----|-----|--------|------|
| 1   | Ldt | S12345 | 2021 |
| 2   | Ldt | S12346 | 2022 |
| 3   | Ldt | S12347 | 2021 |



#### LEHAT TAHUN

ID  
2021  
Nama  
2021  
2022





#### Mata Kuliah add

Lihat Tambah  
Edu  
Search  
Yandex  
Google



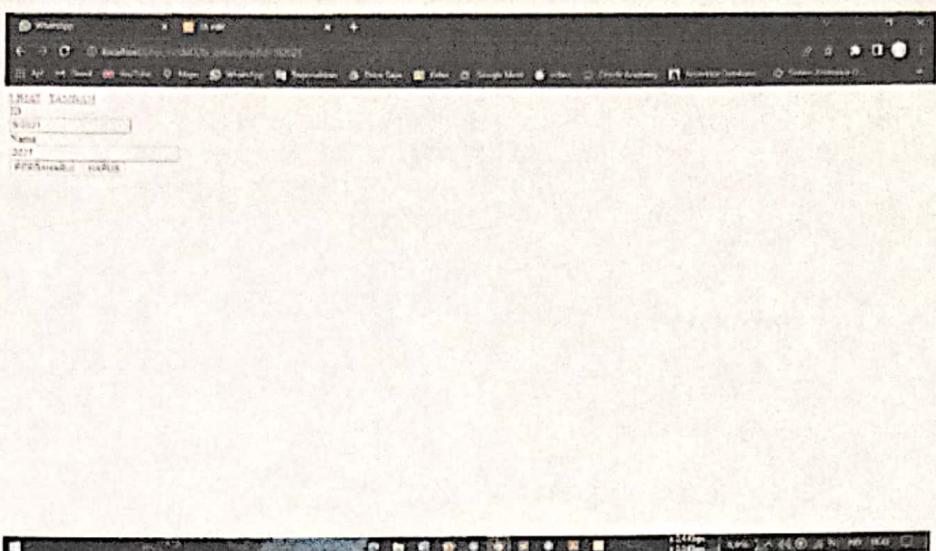
#### Tampilan TA, TA add, TA edt



#### Tahun Akademik

| Lihat Tambah |     |        |      |
|--------------|-----|--------|------|
| No.          | Act | ID     | Nama |
| 1            | Edu | S12345 | 2021 |
| 2            | Edu | S12346 | 2022 |
| 3            | Edu | S12347 | 2023 |





## BAB IV

### KESIMPULAN

MySQL merupakan teknik Pengaksesan terhadap database.

MySQL merupakan perkembangan terbaru

Praktikum kali ini membuat database akademik yang memiliki tabel mahasiswa, Mata Kuliah, KRS, dan Tahun akademik masing2 tabel memiliki hitungan yang berfungsi.

- Untuk Tabel mahasiswa berelasi dengan tabel KRS, gunanya untuk memasukan data mahasiswa menggunakan npm sebagai primary key
- Untuk table mata kuliah berelasi dengan tabel KRS. Berguna untuk menambahkan data mata kuliah pada krs
- Untuk tabel Tahun akademik berelasi dengan table KRS berguna untuk menambahkan tahun jalan pada KRS.