LAPORAN PRAKTIKUM

PEMROGRAMAN WEB

SEMESTER GENAP TAHUN AKADEMIK 2022

Disusun oleh :

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PRODI SISTEM INFORMASI

FAKULTAS TEKNIK

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BAB I

DASAR TEORI

My Sql API (Application Programing Interface) adalah komponen yang digunakan untuk berkomunikasi dengan database MySql melalui PHP.

Proser Query Database terdapat 4 langkah.

a. membuat koneksi terlebih dahulu ke server dan menentukan mau menggunakan data base apa.
b. membuat sql
c. melakukan proser query.
d mengumpulkan hasil query kedalam satu variabel untuk di tampilkan /diproser.

~~MSQ~~ my sqli (my sql improved) merupakan peningkatan dari database my sql yang juga pengembangan dari PHP 5.x./ yang terbaru. dengan menggunakan mysqli dapat memungkinkan mengakses Stored Procedured, stored function / prepared statement. extensi mysqli diantaranya. menggunakan interface object oriented, mendukung Prepared dan multiple statement, penggunaan transcasion, lalu meningkatkan terhadap kemampuan pencarian kesalahan program. mendukung penggabungan server.

daftar API mysqli yang biasa di gunakan adalah.

1. mysql i -p query.
2. $ my sqli – Result → fecth – Array
3. $ my sqli – result → num – row
4. $ mysqli → error

koneksi database. dapat menggunakan Api Mg sqli

```
<? Php.
    $ hostname = " localhost "; $ Username = " root " ; $ password : "" ; $ database = " akademik"
    $ koneksi = new my sqli ($ hostname, $username ; $ password , $ database )??
```

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BAB II

PERCOBAAN DAN LATIHAN

Percobaan

membuat database dgn nama akademik. dan membuat tabel dgn nama, mhs, krs, mk, dan tr. isi tabel mahasiswa dengan beberapa data.

1. buat file php sebagai koneksi dari database ke program php yang kita buat.

```
<? php.
  $ servername = " Localhost "; $ username = " root ",
  $ password = " "; $ database = " akademik ";
    $ conn = new mysqli ( $ servername , $ username , $ password , $ database );
  If ( $ conn -> connection_error ) { die ( " connection failed : " . $ con -> connect_error ); }
?>
```

2. buat file menu.php. yang digunakan untuk menampilkan data dengan perintah.

```
<a href = " mhs.php " > View </a> | <a href = " mhs_add.php " > Add </a>
```

3. Untuk menampilkan data maka perlu membuat file php mhs.php.

```
<? php. Include ' koneksi.php ' ; ?>
<! DOCTYPE html > <html> <head>
    <title> mhs </title> </head> <body>
<? php include 'menu.php' ; ?> <table width = '100%' border = '1' > <thead>
<tr> <th width = '5%' > no. </th> <th width = '15%' > NPM </th> <th width = '25%' >
nama </th> < th > Alamat </th> </tr> </thead> <tbody>
<? php  $ sql  = " Select * From mhs "; $ res = $ conn -> query ( $ sql ); if
( $ res -> num_rows > 0 ) { $ i = 0 ; while ( $ dat = $ res -> fecth_assoc ()) { $ i++ ;
echo " <tr> <td> $ i </td> < td > <a href = " mhs_detil.php ? npm = " . $ dat [ 'npm' ] . " > "
$ dat [ " npm " ] . " </a> </td>
        <td > " . $ dat [ " nama " ] . " </td> <td > " . $ dat [ " alamat " ] . " </td> </tr> }
} ? >  </tbody> </table> </body> </html>
```

4. buat file mhs_add.php untuk menambahkan mhs.

```
<! DOCTYPE html > <html> <head > <title > mhs add </title> </head>
<body>
    <? php include 'menu.php' ; ?> <br>
    < Form name = " my form " action = " mhs_proc.php " method = " post " >
NPM <br> < input type = " text " name = " npm " id = " npm " > < br>
Nama <br> < input type = " text " name = " nama " id = " nama " > <br>
Alamat <br> < input type = " text " name = " alamat " id = " alamat " size = " 50 " > <br>
<input type = " submit " name = " submit_add " id = " submit_add " value = " simpan " >
</ form > </ body > < /html >
```

5. buat lagi file php dengan nama mhs_proc.php.

```
< ? php include ' koneksi.php ';
  if ( isset ( $_post [ ' submit_add ' ])) {
    $ npm = $_post [ 'npm' ] ; $ nama = $ port [ 'nama' ] ; $ alamat = $_port [ 'alamat' ] ;
$ sql = " insert into mhs ( npm , nama , alamat ) value ( ' $ npm ' , ' $ nama ' , ' $ alamat ' )
if ( ! $ conn -> query ( $ sql ) ) die ( ' tambah data 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 ("location : mhs.php");
} ?>
```

Kita buat juga mhs detil untuk edit data mhs.

```
<? php include 'koneksi.php';
    $npm = $_Get ['npm']; $sql = "select * from mhs where npm ='$npm'";
    $res = $conn -> query ($sql); $dat = $res -> fetch_assoc(); ?>
<!DOCTYPE html> <html> <head> <title> mhs edit </title> </head> <body>
<? php include 'menu.php'; ?> <br>
<form name = "my form" action ="mhs_proc.php" method = "post">
NPM <br> <input type ="text" name ="npm" id = "npm" value ="<? = $dat ['npm'] ?>">
<br> nama <br> <input type ="text" name ="nama" id = "nama" size ="30" value = "<? = $dat.
['nama'] ?>"> <br> alamat <br>
<input type ="text" name ="alamat" id = "alamat" size ="80" value ="<? = $dat ['alamat'] ?>">
<br> input type ="submit" name ="submit_edit" id ="submit_edit" value ="simpan">
<input type ="submit name = "submit_delete" id ="submit_delete" value ="Hapus">
</form> </body> </html>
```

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Latihan :

- Program Php untuk menambah, menampilkan, mengubah dan menghapus data dari tabel mk.

- mk.php.

```
<?php include 'koneksi.php'; ?> <!DOCTYPE html><html>
<head> <title> mata kuliah </title></head><body>
<h2 align = "center"> mata kuliah </h2>
<a href = "mk.php"> lihat </a> | <a href = "mk_add.php"> tambah </a>
<table width = '100%' border = '1'><thead><tr>
<th width = '2%'> No. </th> <th width = '5%'> edit </th>
<th width = '15%'> kode </th> <th width = '25%'> nama </th></tr>
</thead><tbody>
<? php $sql = "select * from mk"; $res = $conn->query ($sql);
if ($rer->num_row > 0){ $i = 0; while ($dat = $rer->fetch_assoc()){ $i++;
echo " <tr align = 'center'><td> $i </td>
<td> <a href = 'mk_detail.php ? kode=" . $dat ['kode'] . "'> edit </a></td>
<td> ". $dat ["kode"] . "</td><td> ". $dat ["nama"] . "</td></tr>"; }} ?>
</tbody> </table> </body> </html>
```

- mk_add.php

```
<!DOCTYPE html><html><head>
<title> mata kuliah </title> </head>
<body>
  <h2> mata kuliah </h2>
  <a href = "mk.php"> lihat </a> | <a href = "mk_add.php"> tambah </a>
  <br> <form name = "myform" action = "mk_proc.php" method = "post" > kode <br>
  <input type = "text" name = "kode" id = "kode" > <br> nama <br>
  <input type = "text" name = "nama" id = "nama" size = "30" > <br>
  <input type = "submit" name = "mk_add" id = "mk_add" value = "simpan" >
  </form> </body> </html>
```

- mk_detail.php.

```
<? php include 'koneksi.php';
  $kode = $_get ['kode']; $sql = "select * from mk where kode = '$kode'";
  $rer = $conn->query ($sql); $dat = $rer->fetch_assoc(); ?>
<!DOCTYPE html><html><head><title> mata kuliah </title> </head><body>
<h2> mata kuliah edit </h2>
<a href = "mk.php"> lihat </a> | <a href = "mk_proc.php" > tambah </a> <br>
<form name = "myform" action = "mk_proc.php" metod = "post" > kode <br>
<input type = "text" name = "kode" id = "kode" valuer = " <? php echo
  $dat ['kode'] ?> "> <br> nama <br>
<input type = "text" nam = "nama" id = "nama" size = "30" valuer = "<? = $dat ['nama']
?> "> <br>
<input type = "submit" name = "mk_edit" id = "mk_edit" valuer = "perbarui">
<input type = "submit" nam = "mk_delete" id = "mk_delete" values = "hapus" >
</form> </ body> </html>
```

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```
<? php include 'koneksi.php';
  if (isset ($post ['mk_add'])) { $kode = $_post ['kode']; $nama = $_post ['nama'];
  $sql = "insert into mk (kode,nama) valver ('$kode', $nama')";
  if (! conn → query ($sql)) { die ('tambah mk gagal'); }.
  else { header ("Location : mk.php"); }}
  if (isset ($_post ['mk_edit'])) { $kode = $_post ['kode']; $nama = $_post ['nama'];
  $sql = "update mk set nama = '$nama' where kode = '$kode'";
  if (! conn → query ($sql)) { die ('edit mk gagal'); }
  else { header ("Location : mk.php"); }.
  if (isset ($_port ['mk_delete'])) { $kode = $_post ['kode'];
  $sql = "Delete From mk where kode = '$kode'"; if (! conn → query ($sql)) {
      die ('hapus mk gagal'); }
    else { header ("Location : mk.php"); }} ?>
```

Program php untuk menambah, menampilkan, mengubah dan menghapus tabel ta.

- ta.php.

```
<? php include 'koneksi.php'; ?>
<!DOCTYPE html> <html> <head> <title> tahun Akademik </title> </head> <body>
<h2> 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%' > edit </th> <th width = '15%' > ID </th>
< th width = '25%' > nama </th> </tr> </thead> <tbody>
<? php $sql = " Select * from ta "; $res = $ conn → query ($sql);
if ($rer → num_rows > 0) { $i = 0; while ($dat = $rer → fetch_assoc ()) { $i++;
echo " <tr align = 'center' > <td> $i </td> <td> <a href = 'ta_detail.php ? id = ". $dat ['id']. "
'> edit </a> </td> <td> ". $dat ["id"] . " </td> <td> ". $dat ["nama"]. " </a> </td>";
}} ? > </tbody > </table> </html>
```

- ta_add.php.

```
<! DOCTYPE html> <html> <head> <title> tahun akademik tambah </title> </head>
<body > <a href = "ta.php"> lihat </a> | <a href = "ta_add.php "> tambah </a> <br>
<form name = " myform " action = " ta_proc.php " method = " post "> ID <br>
<input type = "text " name = "id" id = "id "> <br> nama <br>
<input type = " text " name = " nama " id = " nama " size = "30"> <br>
<input type = " submit " name = " ta_add " id = " ta_add " valver = " simpan ">
</form> </body> </html>
```

- ta_detail.php.

```
<? php include 'koneksi.php' ; $id = $_get ['id']; $sql = " select * from ta where id = " $id ";
$rer = $con → query ($sql); $dat = $rer → 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 = " myform " action = " ta_proc.php " method = " post " > ID <br>
<input type = " text " name = " id " id = " id " value = " <? = $dat ['id'] ? > " > <br> nama
<br> <input type = " text " name = " nama " id = " nama " size = " 30 " value = " <? = $dat ['nama'] ? >
" > <br>
<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>
```

tq_proc.php

```
<? php
  include 'koneksi.php';
  if (isset ($_post ['tq_add'])) { $id = $_GET['id']; $nama = $_post ['nama'];
  $sql = "insert into tq (id,nama) values ('$id', '$nama')";
  if ($ conn -> query ($sql)) { die ('tambah tq gagal'); }
  else { header ("Location : tq.php"); }}
  if (isset ($_post ['tq_edit'])){ $id = $_post ['id']; $nama = $_post ['nama'];
  $sql = "update tq set nama ='$nama' where id ='$id'";
  if ($ conn -> query ($sql)) { die ('edit tq gagal'); }
  else { header ("Location : tq.php"); }}
  if (isset ($_post['tq_delete'])){ $id = $_post ['id'];
  $sql = " Delete From tq where id ='$id'";
  if ($ conn -> query ($sql)){ die ('hapus tahun akademik gagal'); }
  else { header ('location : tq.php"); }} ?>
```

ta_proc.php.

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```
<? php
  includ 'koneksi.php';
  if (isset ($post ['ta_add'])) { $id = $post['id']; $nama = $_post ['nama'];
  $sql = "insert into ta (id,nama) valuer ('$id', '$nama') ";
  if (! conn -> query ($sql)) { die ('tambah ta gagal '); }
  else { header ("Location : ta.php "); }}.
  if (isset ($port ['ta_edit'])){ $id = $_post ['id']; $nama = $_port ['nama'];
  $sql = "update ta set nama = '$nama' where id = '$id' ";
  if (! conn -> query ($sql)) { die ('edit ta gagal'); }
  else { header ("Location : ta.php"); }}
  if (isset ($_port['ta_delete'])){ $id = $post ['id'];
  $sql = " Delete From ta where id = '$id' ";
  if (! conn -> query ($sql)){ die ('hapus tahun akademik gagal'); }
  else { header ("location : ta.php "); }} ?>
```

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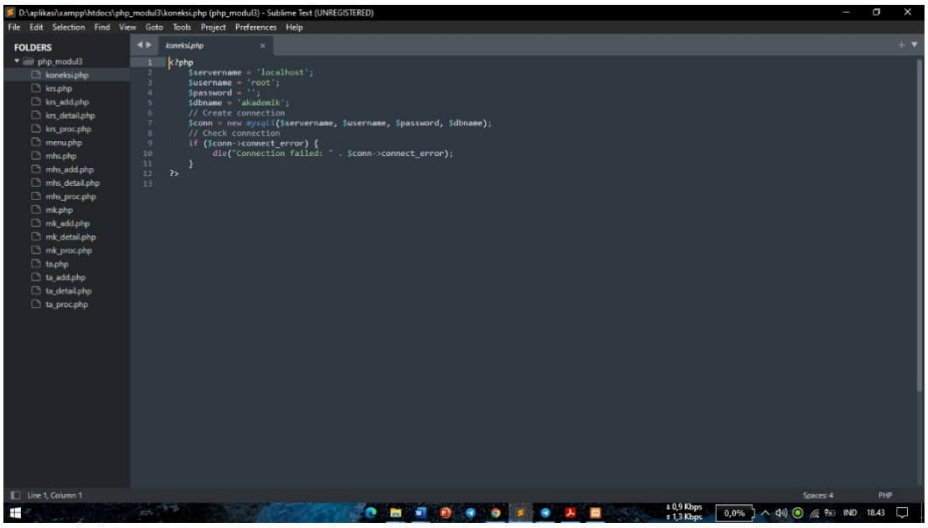
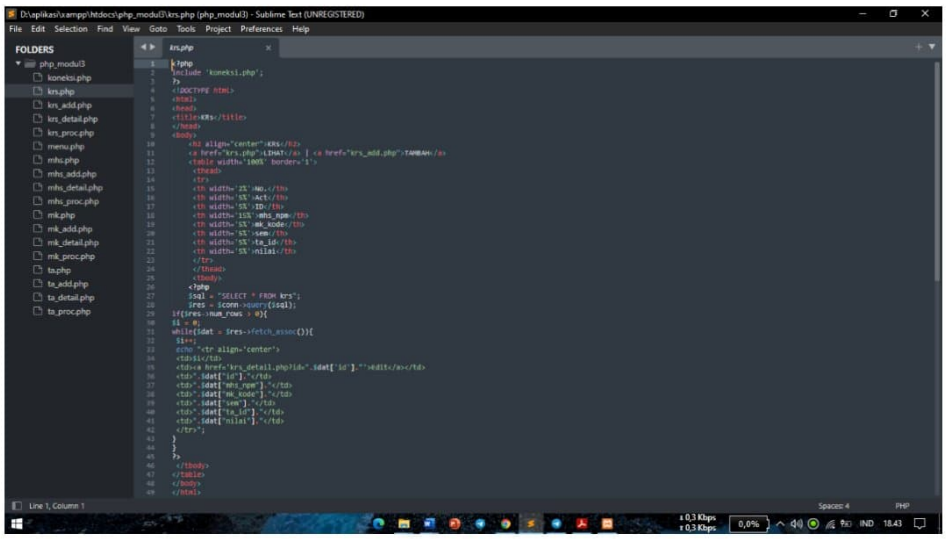
III

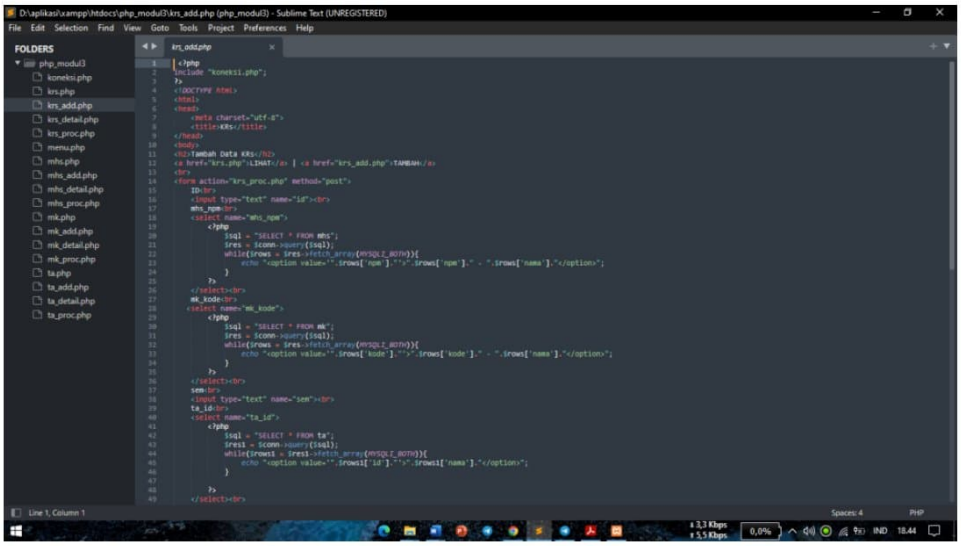
TAMPILAN PROGRAM

Tampilan program koneksi



Tampilan program krs





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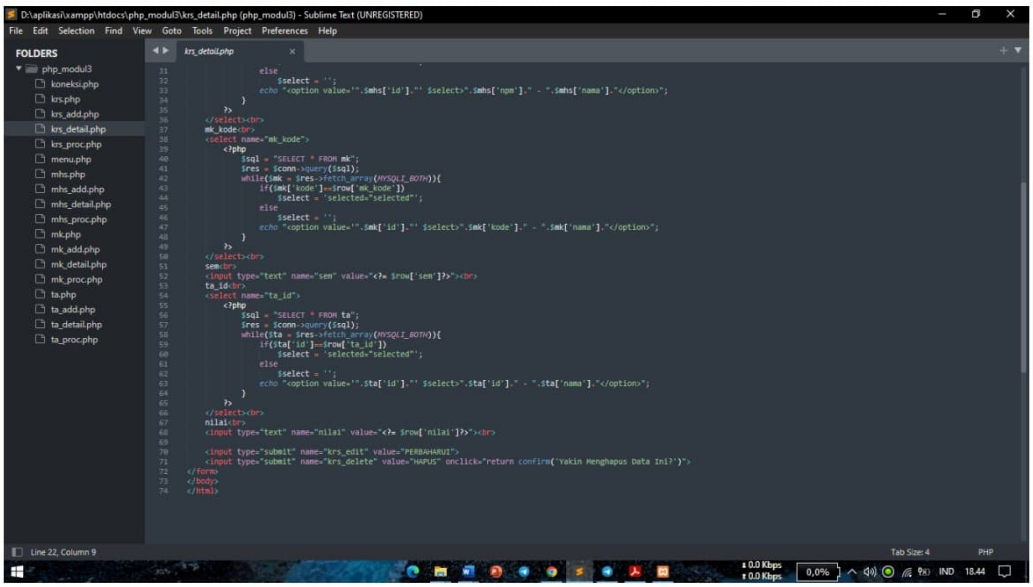
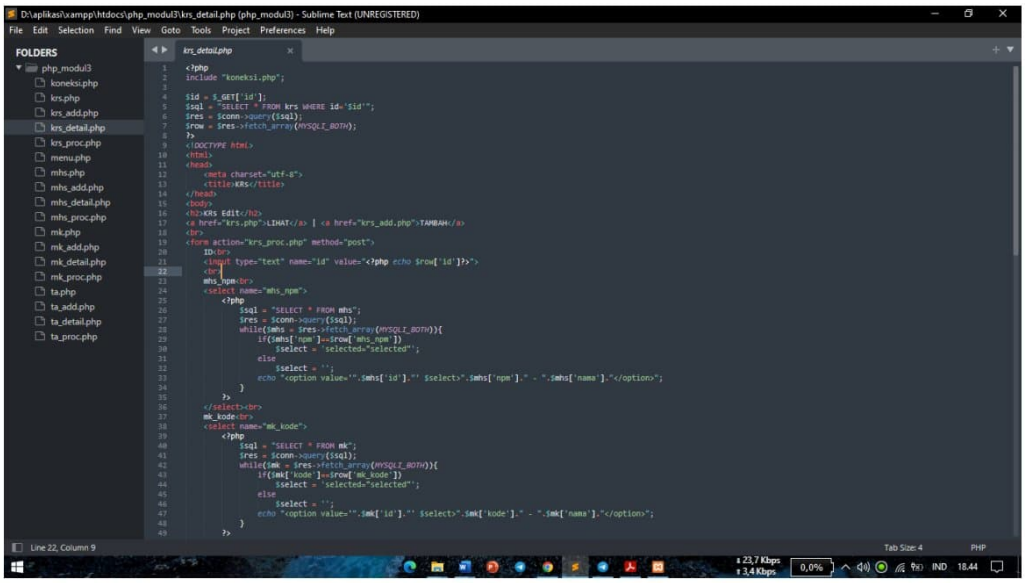
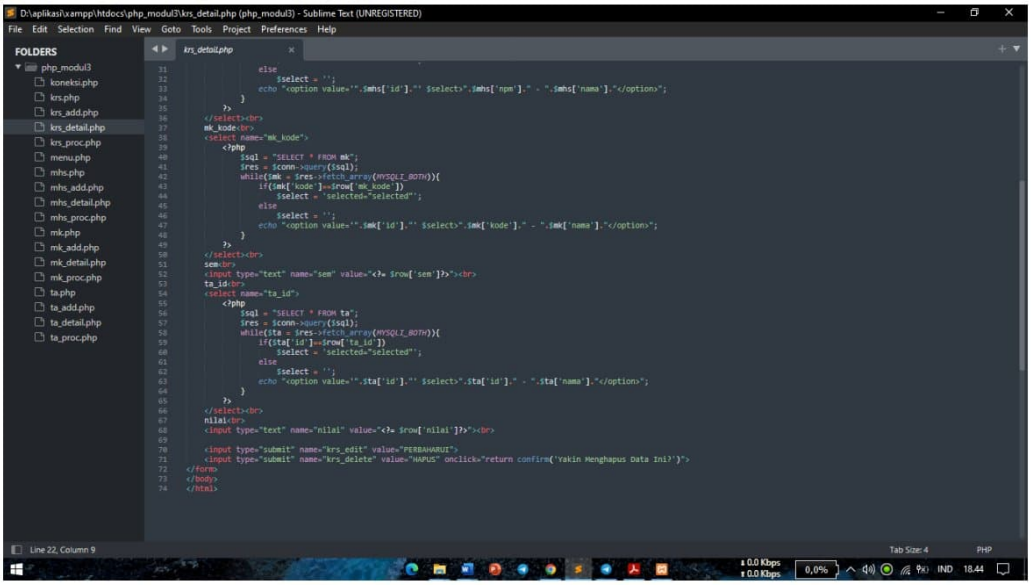

D:\aplikasi\xampp\htdocs\php_modul3\krs_detail.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
krs_detail.php
Line 22, Column 9
Tab Size: 4
PHP


D:\aplikasi\xampp\htdocs\php_modul3\krs_detail.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
krs_detail.php
Line 22, Column 9
Tab Size: 4
PHP


D:\aplikasi\xampp\htdocs\php_modul3\krs_detail.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
krs_detail.php
Line 22, Column 9
Tab Size: 4
PHP

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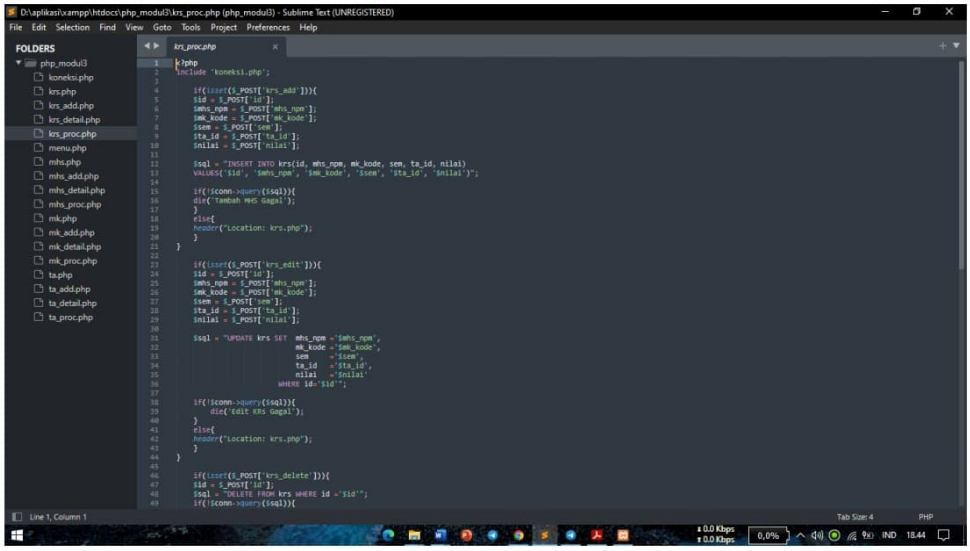
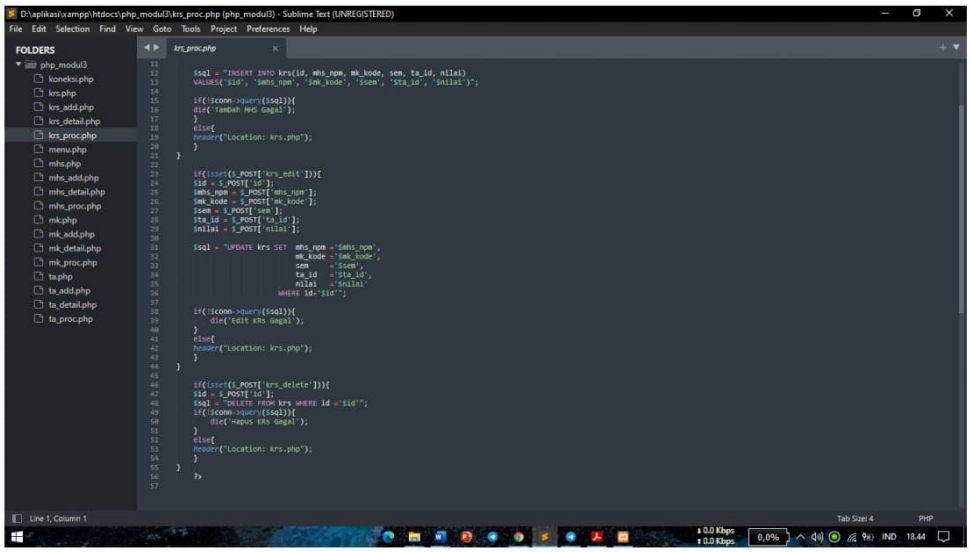
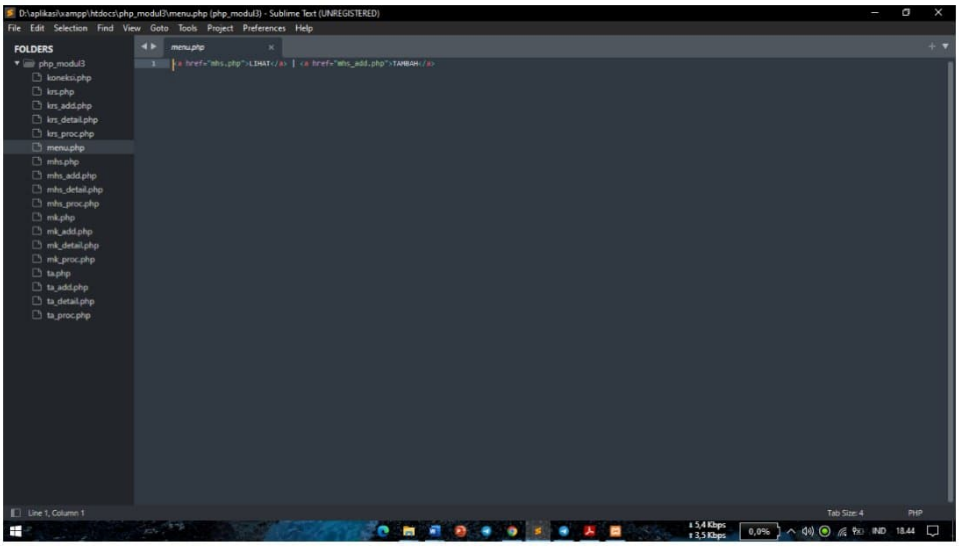




Tampilan menu



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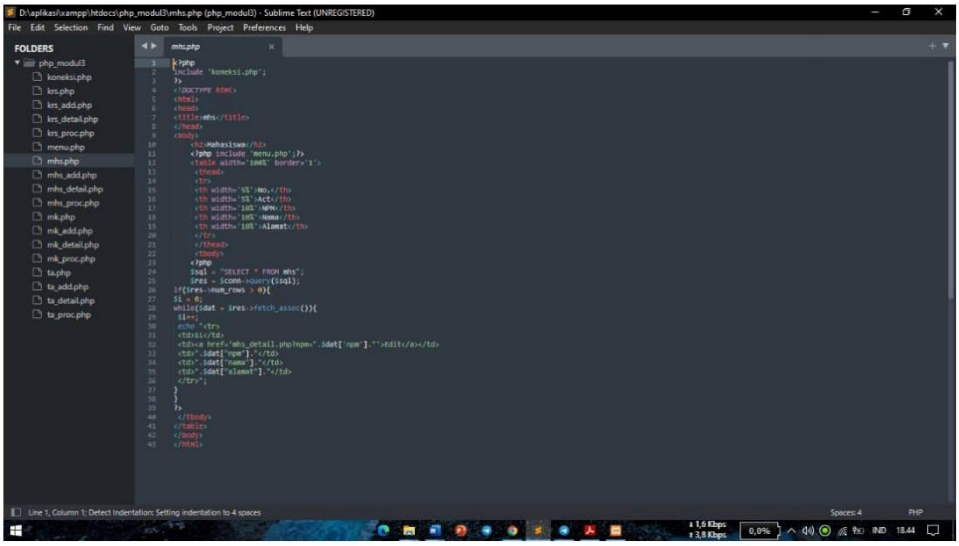
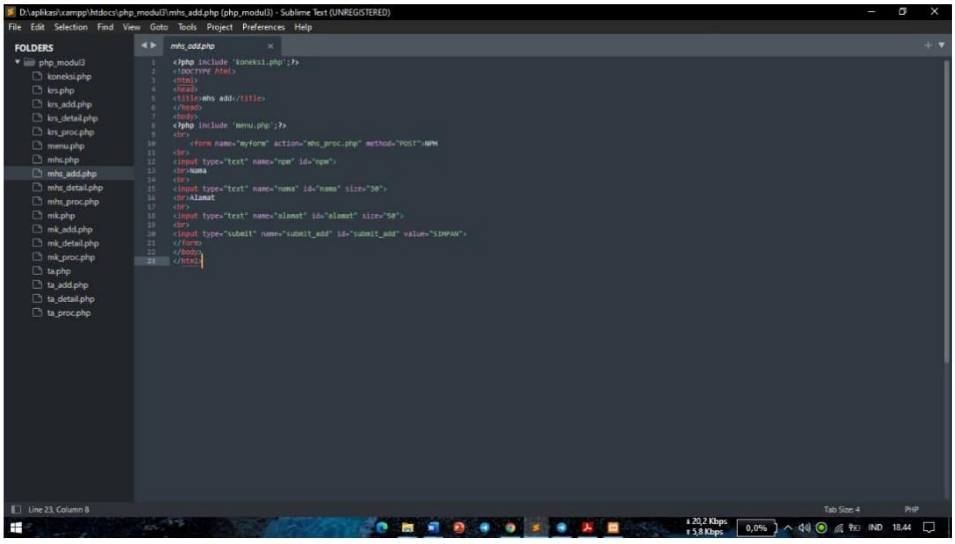
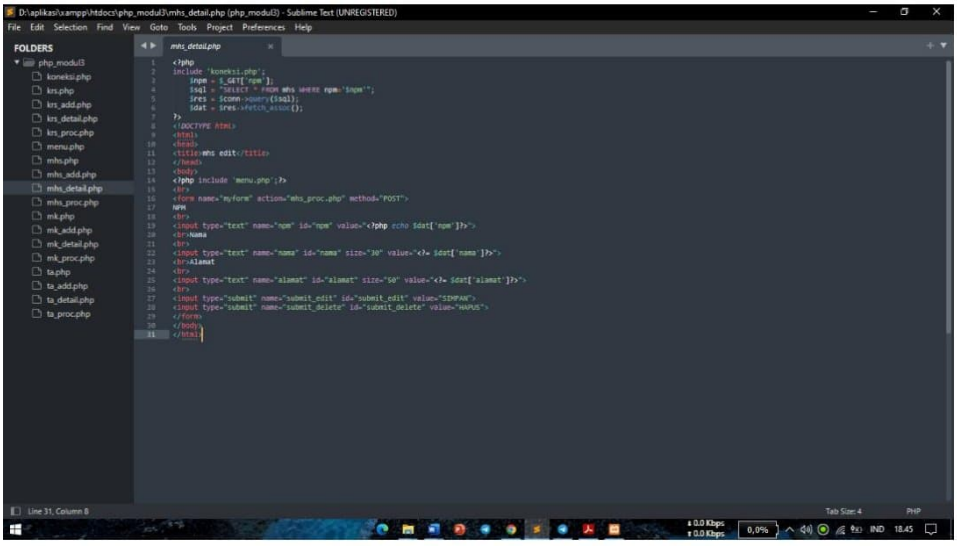
Tampilan mhs







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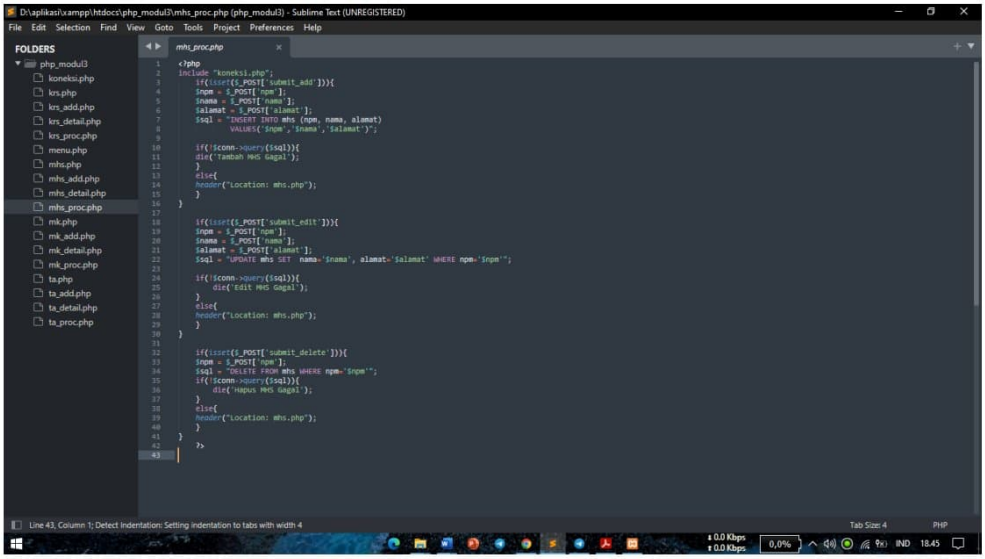
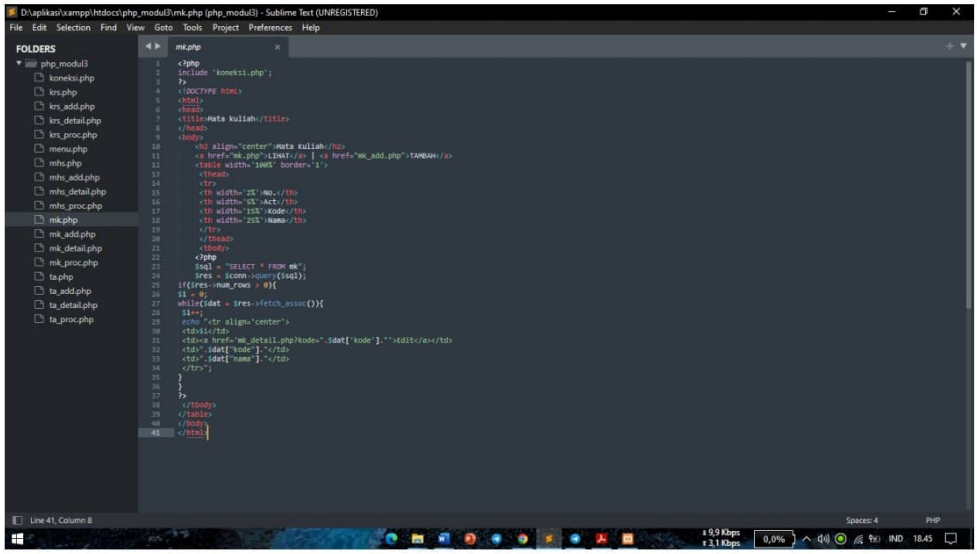
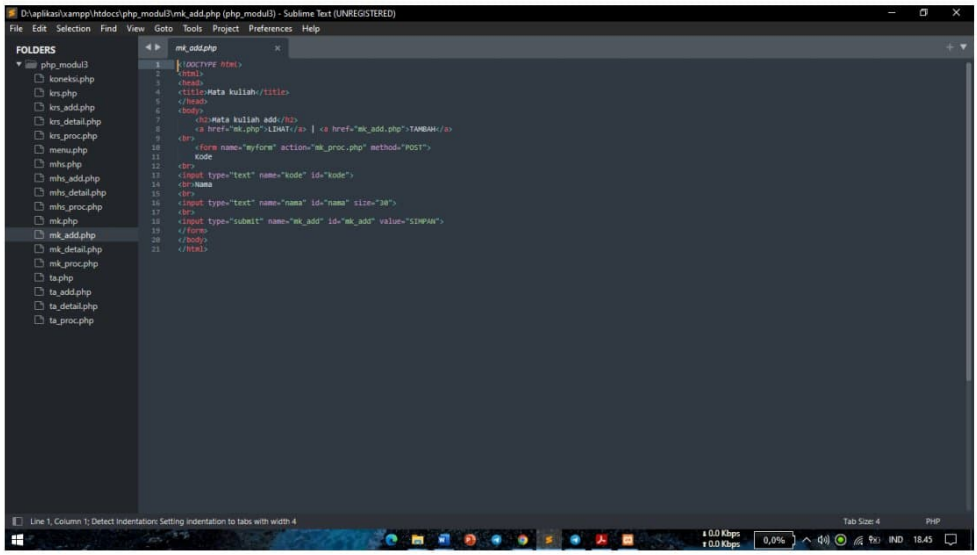


Tampilan program mk





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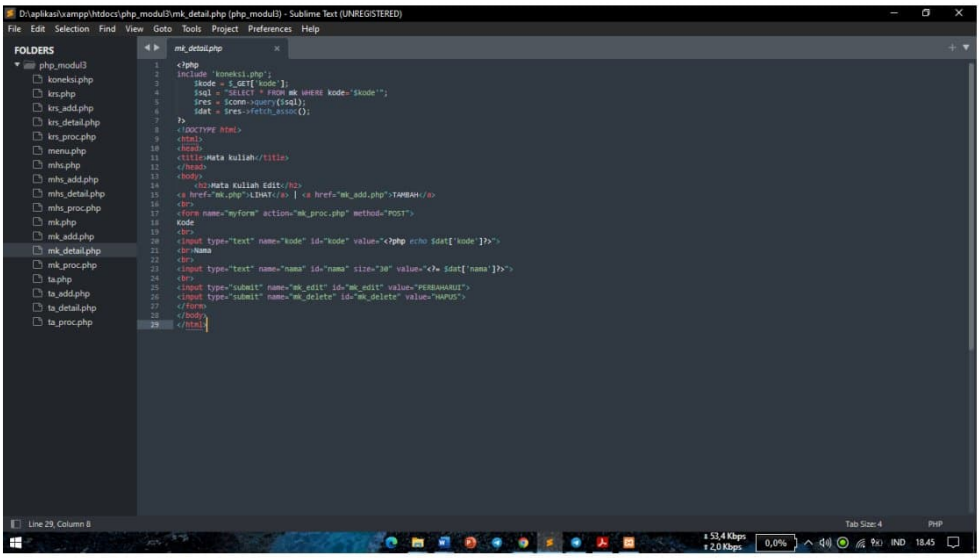
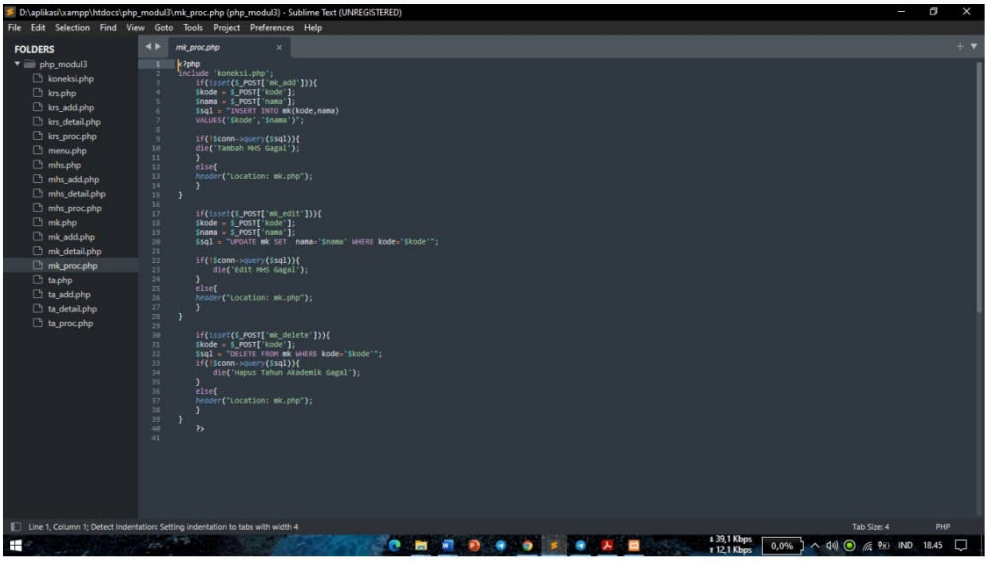
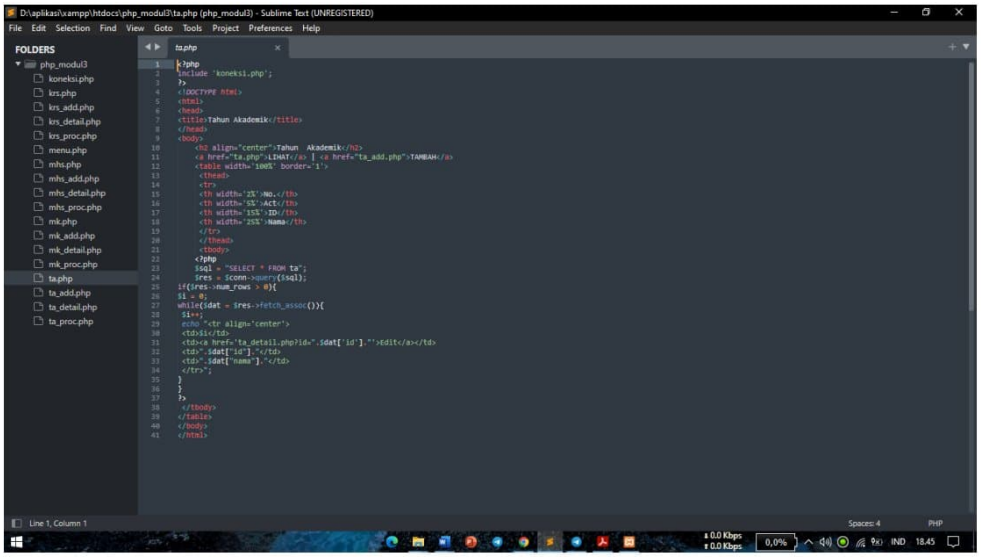




Tampilan program TA



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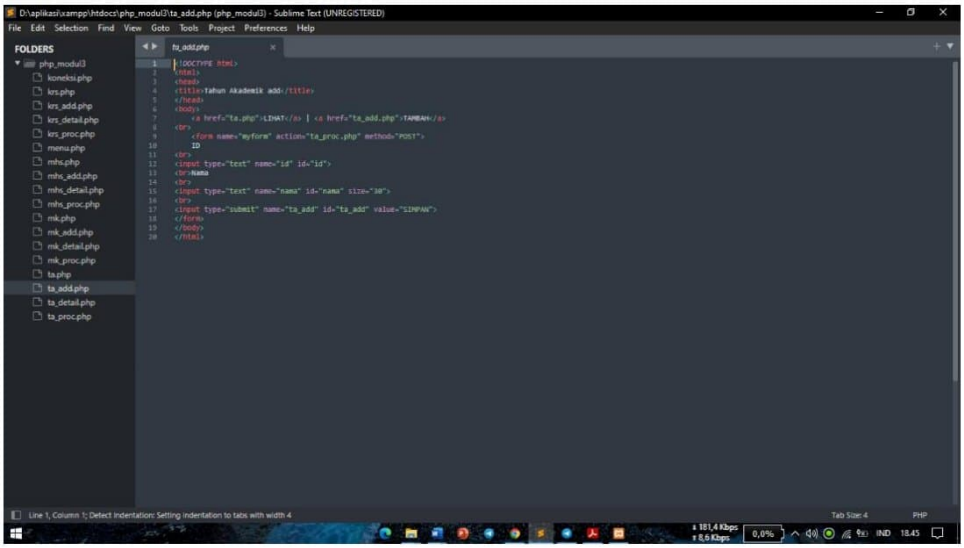

D:\aplikasi\xampp\htdocs\php_modul3\ta_add.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
ta_add.php
<!DOCTYPE html>
<html>
<head>
<title>Tahun Akademik add</title>
</head>
<body>
<a href="ta.php">LIHAT</a> | <a href="ta_add.php">TAMBAH</a>

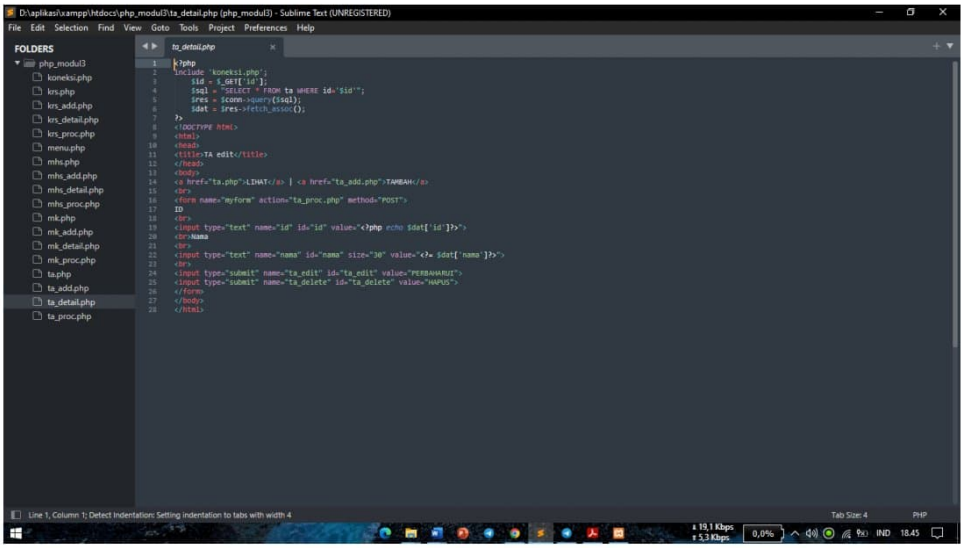
<form name="myform" action="ta_proc.php" method="POST">
ID

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

Nama

<input type="text" name="nama" id="nama" size="30">

<input type="submit" name="ta_add" id="ta_add" value="SIMPAN">
</form>
</body>
</html>
Line 1, Column 1; Detect indentation: Setting indentation to tabs with width 4
Tab Size: 4
PHP


D:\aplikasi\xampp\htdocs\php_modul3\ta_detail.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
ta_detail.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>

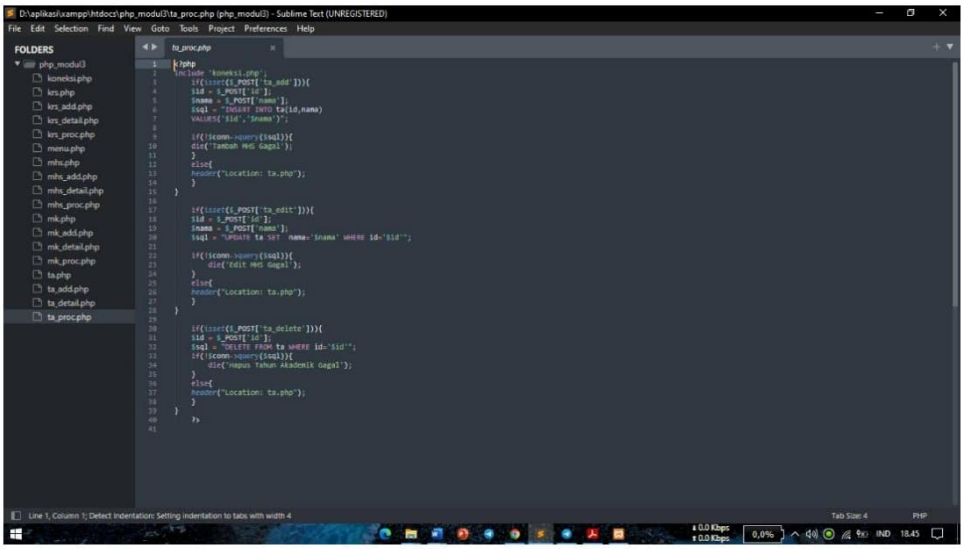
<form name="myform" action="ta_proc.php" method="POST">
ID

<input type="text" name="id" id="id" value="<?php echo $dat['id']?>">

Nama

<input type="text" name="nama" id="nama" size="30" value="<?= $dat['nama']?>">

<input type="submit" name="ta_edit" id="ta_edit" value="PERBAHARUI">
<input type="submit" name="ta_delete" id="ta_delete" value="HAPUS">
</form>
</body>
</html>
Line 1, Column 1; Detect indentation: Setting indentation to tabs with width 4
Tab Size: 4
PHP


D:\aplikasi\xampp\htdocs\php_modul3\ta_proc.php (php_modul3) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
php_modul3
koneksi.php
krs.php
krs_add.php
krs_detail.php
krs_proc.php
menu.php
mhs.php
mhs_add.php
mhs_detail.php
mhs_proc.php
mk.php
mk_add.php
mk_detail.php
mk_proc.php
ta.php
ta_add.php
ta_detail.php
ta_proc.php
ta_proc.php
<?php
include 'koneksi.php';
if(isset($_POST['ta_add'])){
$id = $_POST['id'];
$nama = $_POST['nama'];
$sql = "INSERT INTO ta(id,nama)
VALUES('$id','$nama')";
if(!$conn->query($sql)){
die('Tambah MHS Gagal');
}
else{
header("Location: ta.php");
}
}
if(isset($_POST['ta_edit'])){
$id = $_POST['id'];
$nama = $_POST['nama'];
$sql = "UPDATE ta SET `nama`='$nama' WHERE id='$id'";
if(!$conn->query($sql)){
die('Edit MHS Gagal');
}
else{
header("Location: ta.php");
}
}
if(isset($_POST['ta_delete'])){
$id = $_POST['id'];
$sql = "DELETE FROM ta WHERE id='$id'";
if(!$conn->query($sql)){
die('Hapus Tahun Akademik Gagal');
}
else{
header("Location: ta.php");
}
}
?>
Line 1, Column 1; Detect indentation: Setting indentation to tabs with width 4
Tab Size: 4
PHP

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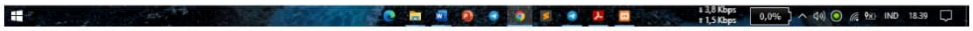
Tampilan krs,krs add,krs edit

KRs

LIHAT | TAMBAH

No.	Act	ID	mhs_npm	mk_kode	sem	ta_id	nilai
1	Edit	2	2013030032	SIF001	genap	SI2022	0
2	Edit	3	2013030027	SIF002	genap	SI2021	89



Tambah Data KRs

LIHAT | TAMBAH

ID
03
mhs_npm
2013030027 - dea rizky indrawan
mk_kode
SIF001 - pemrograman basis data
sem
genap
ta_id
2021
nilai
90
SIMPAN

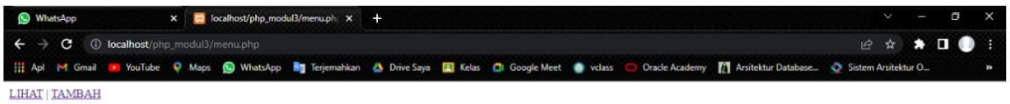
KRs Edit

LIHAT | TAMBAH

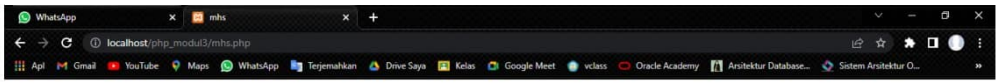
ID
2
mhs_npm
2013030032 - imam
mk_kode
SIF001 - pemrograman basis data
sem
genap
ta_id
SI2022 - 2022
nilai
0
PERBAHARUI | HAPUS

20130300 27

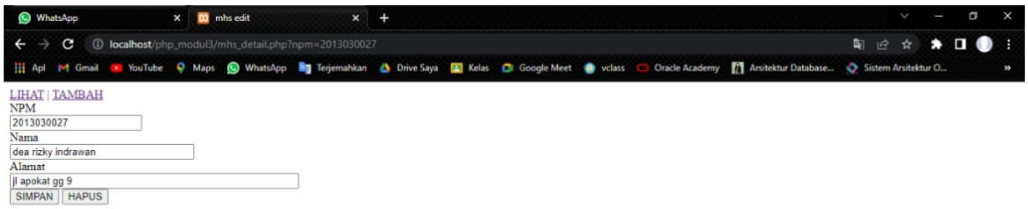
Tampilan menu



Tampilan mahasiswa,mahasiswa add,mahasiswa edit



No.	Act	NPM	Nama	Alamat
1	Edit	2013030027	dea rizky indrawan	jl apokat gg 9
2	Edit	2013030029	diana	jombang
3	Edit	2013030032	imam	kediri
4	Edit	2013030056	dion	nganjuk
5	Edit	2013030057	cintia	jl panglima sudirman



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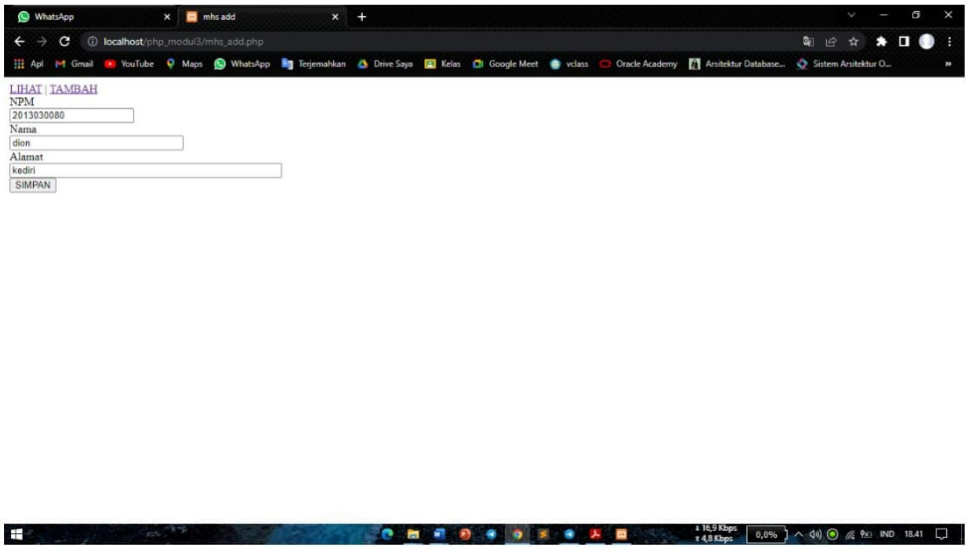
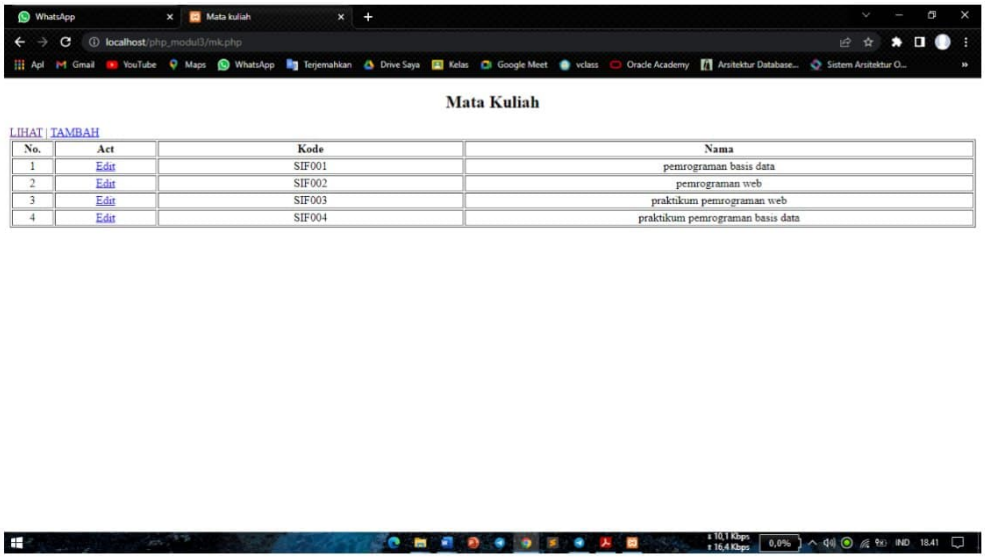
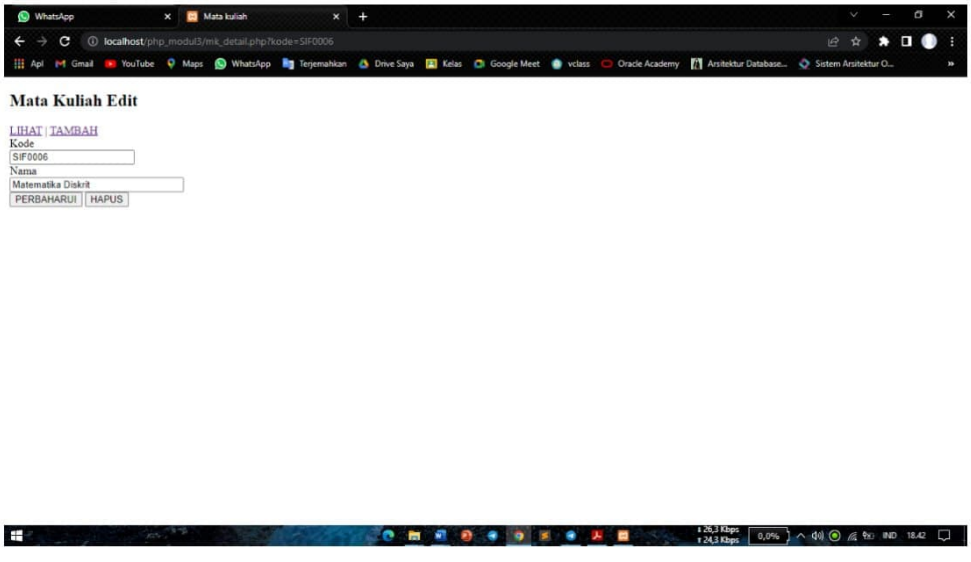
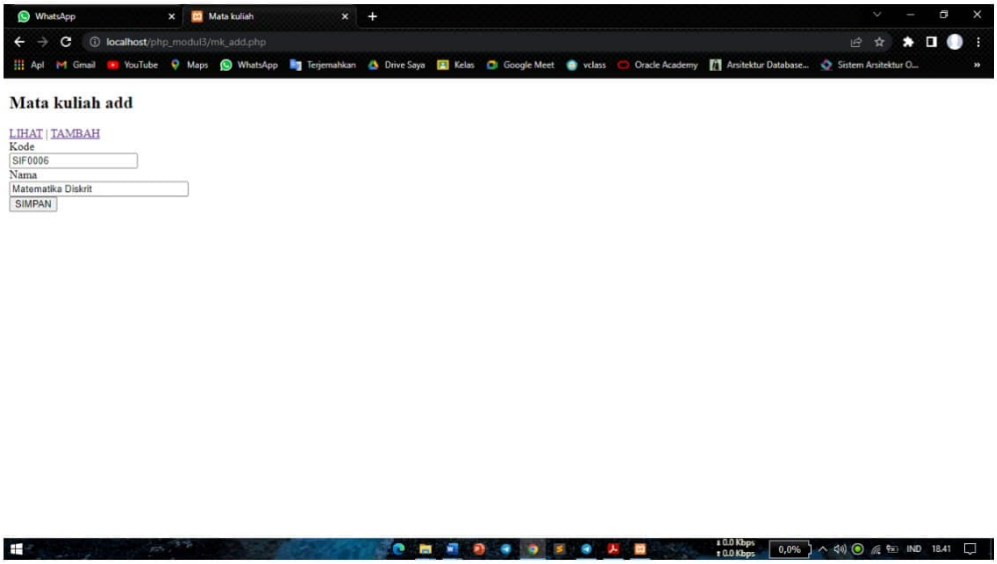


Tampilan mk,mk add,mk edit

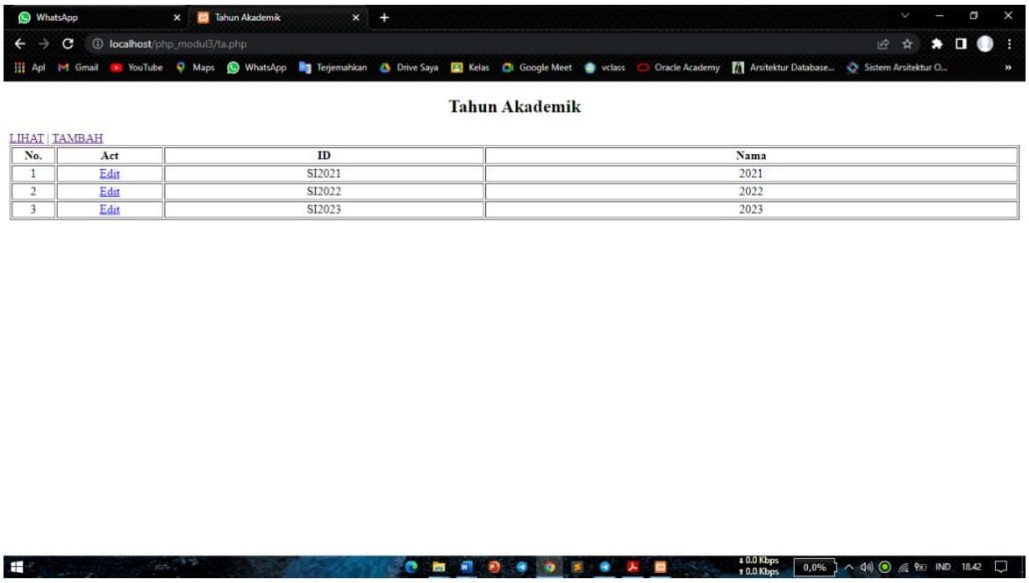


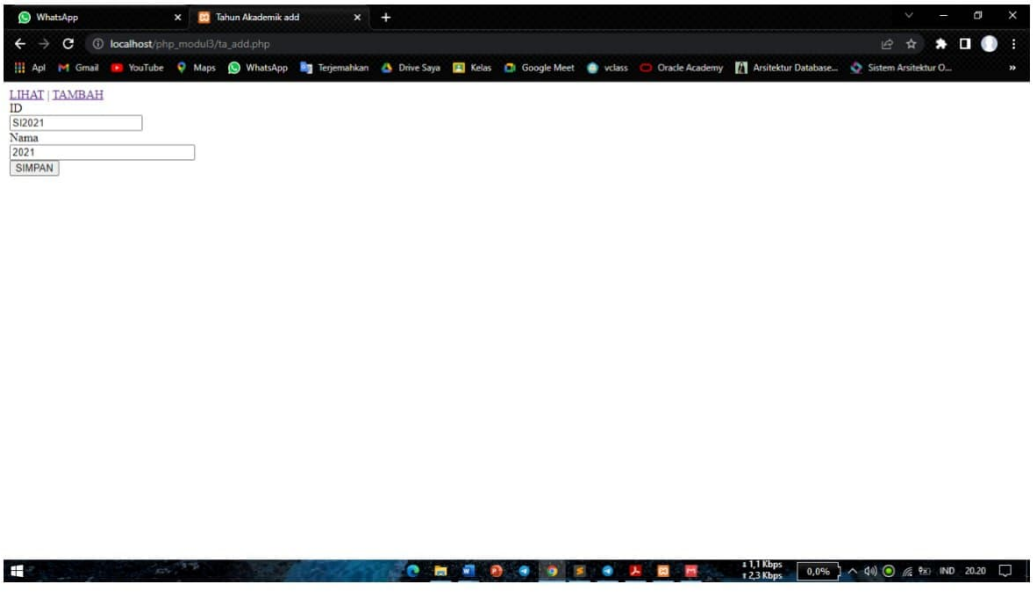


20130300 27

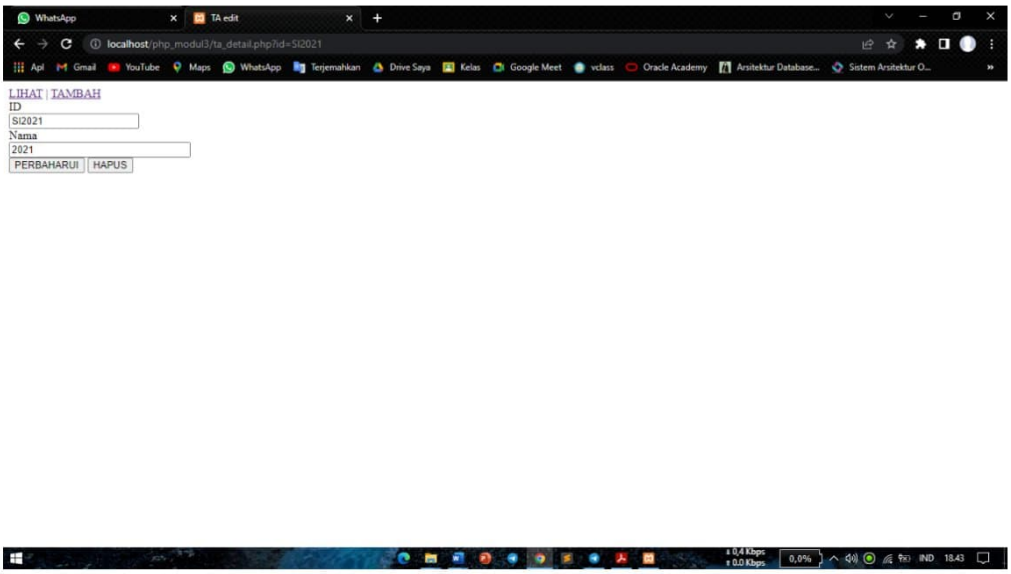


Tampilan TA, TA add, TA edt





20130300 27


WhatsApp
TA edit
localhost/php_modul3/ta_detail.php?id=SI2021
Apl
Gmail
YouTube
Maps
WhatsApp
Terjemahkan
Drive Saya
Kelas
Google Meet
vclass
Oracle Academy
Arsitektur Database...
Sistem Arsitektur O...
LIHAT | TAMBAH
ID
SI2021
Nama
2021
PERBAHARUI
HAPUS
0,0%
IND
18.43

BAB IV
KESIMPULAN

MysQli merupakan teknik pengaksesan terhadap database mysql yang merupakan perkembangan terbaru.

Pada praktikum kali ini membuat database akademik yang memiliki tabel mahasiswa, mata kuliah, KRS, dan Tahun akademik. masing-masing tabel memiliki hubungan yang berkaitan.

- untuk table mahasiswa berelasi dengan tabel KRS berguna untuk memasukkan data mahasiswa menggunakan NPM sebagai Primary key.
- untuk table mata kuliah berelasi dengan tabel KRS berguna untuk menambahkan data matakuliah pada KRS
- untuk table Tahun akademik berelasi dengan tabel KRS berguna untuk menambahkan tahun ajaran pada KRS.