



“API (Application Programming Interface) Sekumpulan fungsi, subroutine, protokol komunikasi, atau kakas/tools untuk membuat perangkat lunak.”

1. Buatlah Database dengan :

Nama : db_android

Tabel : mhs

Dan dengan struktru tabel sebagai berikut.

| Server: 127.0.0.1 » Database: db_android » Table: mhs | | | | | | | | | |
|----------------------------------------------------------|----------|-------------|-------------------|------------|------|---------|-------|--------|--------------|
| Browse Structure SQL Search Insert Export Import Privile | | | | | | | | | |
| # | Name | Type | Collation | Attributes | Null | Default | Extra | Action | |
| 1 | nim | varchar(50) | latin1_swedish_ci | | No | | | Change | Drop Primary |
| 2 | nm_mhs | varchar(35) | latin1_swedish_ci | | Yes | NULL | | Change | Drop Primary |
| 3 | prodi | varchar(25) | latin1_swedish_ci | | Yes | NULL | | Change | Drop Primary |
| 4 | fakultas | varchar(15) | latin1_swedish_ci | | Yes | NULL | | Change | Drop Primary |

2. Buatlah beberapa perintah API dengan menggunakan bahasa pemrograman PHP dengan beberapa file sebagai berikut :
 - a. db_connnection.php
 - b. create_data.php
 - c. view_data.php
 - d. update_data.php
 - e. delete_data.php
3. Buatlah file PHP sesuai dengan nama file yang diberikan pada setiap tampilan program PHP seperti pada perintah PHP dibawah ini :

db_connnection.php

```
<?php
define('HOSTNAME', 'localhost');
define('USERNAME', 'root');
define('PASSWORD', '');
define('DB_SELECT', 'db_android');

$koneksi=new mysqli(HOSTNAME,USERNAME,PASSWORD,DB_SELECT) or die(mysqli_errno());
?>
```

create_data.php

```
<?php
error_reporting(0);
include_once('db_connnection.php');

$insert      ="INSERT INTO mhs (
                nim,
                nm_mhs,
                prodi,
                fakultas)
            values
            (
                '$_GET[nim]',
                '$_GET[nm_mhs]',
                '$_GET[prodi]',
                '$_GET[fakultas]')";

$exeinsert   =mysqli_query($koneksi,$insert);
$response    =array();

    if($exeinsert)
    {
        $response['code']      =1;
        $response['message']   ="Sukses Tambah Data !";
    }
    else
    {
        $response['code']      =0;
        $response['message']   ="Gagal Tambah Data !";
    }

echo json_encode($response);

?>
```

view_data.php

```
<?php
include_once('db_connnection.php');

$query      ="select * from mhs";
$result     =mysqli_query($koneksi,$query);

$arraydata  =array();
while ($baris=mysqli_fetch_assoc($result))
{
    $arraydata[]=$baris;
    # code...
}
echo json_encode($arraydata);
?>
```

update_data.php

```
<?php
error_reporting(0);
include_once('db_connnection.php');

$get_data   =mysqli_query($koneksi,"select * from mhs where nim='$_GET[nim]'");
$rows       =mysqli_num_rows($get_data);
$response   =array();

if ($rows>0)
{
    $query    ="update mhs set      nm_mhs      = '$_GET[nm_mhs]',
                                prodi         = '$_GET[prodi]',
                                fakultas      = '$_GET[fakultas]'

                                where nim='$_GET[nim]';

    $exequery  =mysqli_query($koneksi,$query);

    if($exequery)
    {
        $response['code']      =1;
        $response['message']   ="Update Data Berhasil !";
    }
    else
    {
        $response['code']      =0;
        $response['message']   ="Update Data Gagal !";
    }
}
}
```

```

else
{
    $response['code']      =0;
    $response['message']   ="Update Data, Data tidak ditemukan !";
}
echo json_encode($response);
?>

```

delete_data.php

```

<?php
include_once('db_connnection.php');

$get_data    =mysqli_query($koneksi,"select * from mhs where nim='$_GET[nim]'");
$rows        =mysqli_num_rows($get_data);

$delete      ="delete from mhs where nim='$_GET[nim]'";
$exedelete   =mysqli_query($koneksi,$delete);
$response    =array();

if ($rows>0)
{
    # code...
    if($exedelete)
    {
        $response['code']      =1;
        $response['message']   ="Hapus Berhasil";
    }
    else
    {
        $response['code']      =0;
        $response['message']   ="Hapus Gagal";
    }
}
else
{
    $response['code']      =0;
    $response['message']   ="Hapus Gagal, Data tidak ditemukan !";
}
echo json_encode($response);
?>

```