

Buat Aplikasi Mobile CRUD Tabel MySQL dengan Appinventor

Oleh :

Harry Witriyono, M.Kom
NIDN. 0210126903

Sesi 1. Pemrograman pada Server

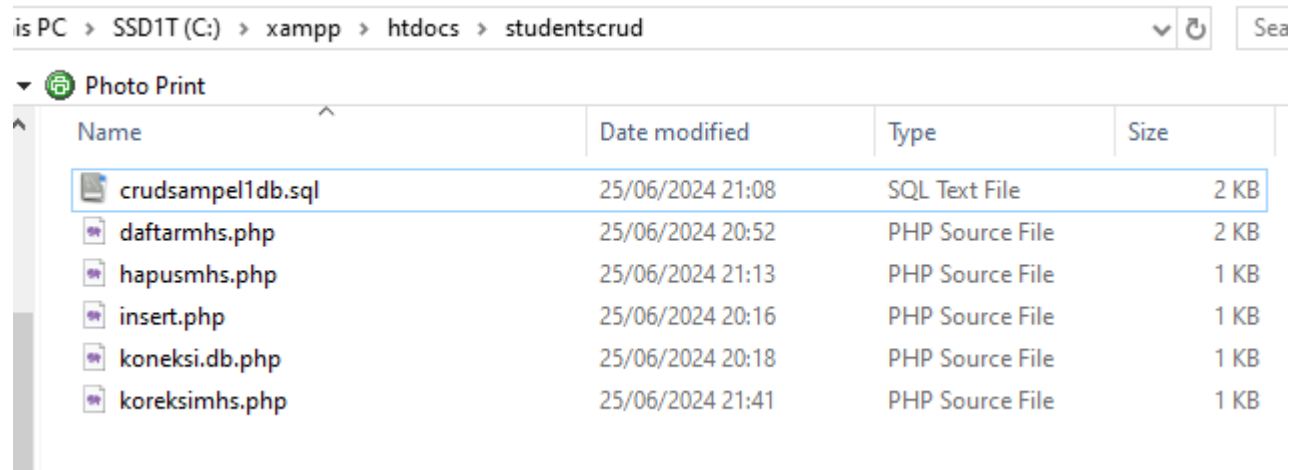
1. Buat / Import Database

- Silahkan buat database: crudsampel1db
- Selanjutnya buat tabel students pada database tersebut :

```
CREATE TABLE `students` (  
  `ID` int(11) NOT NULL,  
  `Nama` varchar(50) COLLATE utf8_unicode_ci NOT NULL,  
  `Email` varchar(50) COLLATE utf8_unicode_ci NOT NULL,  
  `Phone` varchar(50) COLLATE utf8_unicode_ci NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8  
COLLATE=utf8_unicode_ci;
```

- Anda bisa juga download database ini di url :
<https://github.com/HarryWitriyono/DumpSQL/blob/main/crudsampel1db.sql>

2. Buat Folder Kerja di htdocs



3. Buat File koneksi.db.php

```
1 <?php
2 $host="localhost";
3 $user="root";
4 $pass="";
5 $db="crudsampel1db";
6 $koneksi=mysqli_connect($host,$user,$pass,$db) or die ('Gagal koneksi
7 database !');
```

4. Buat file insert.php

```
1 <?php
2 include('koneksi.db.php');
3 if (!$koneksi) {
4     exit();
5 }
6 if (isset($_GET['ID'])) {
7     $ID=mysqli_real_escape_string($koneksi,$_GET['ID']);
8     $Nama=mysqli_real_escape_string($koneksi,$_GET['Nama']);
9     $Email=mysqli_real_escape_string($koneksi,$_GET['Email']);
10    $Phone=mysqli_real_escape_string($koneksi,$_GET['Phone']);
11
12    $sql="INSERT INTO `students`(`ID`, `Nama`, `Email`, `Phone`) VALUES ('".$ID."','".$Nama.
13    "','".$Email."','".$Phone."')";
14    $q=mysqli_query($koneksi,$sql);
15    if ($q) {
16        echo "Rekord sudah tersimpan !";
17    } else {
18        echo "Rekord gagal tersimpan !";
19    }
20    ?>
```

5. Buat file daftarmhs.php

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Bootstrap Example</title>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
8     rel="stylesheet">
9   <script src=
10     "https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"
11     ></script>
12 </head>
13 <body>
14 <div class="container mt-3">
15   <h2>Daftar Mahasiswa</h2>
16   <p>Berikut ini daftar mahasiswa yang telah daftar :</p>
17   <table class="table table-striped">
18     <thead>
19       <tr>
20         <th>NPM</th>
```

```
19         <th>Nama Mahasiswa</th>
20         <th>Email</th>
21         <th>No. Handphone</th>
22     </tr>
23 </thead>
24 <tbody>
25     <?php include('koneksi.db.php');
26     $sql="SELECT * FROM `students`";
27     $q=mysqli_query($koneksi,$sql);
28     $r=mysqli_fetch_array($q);
29     if (!empty($r)) {
30         do {
31             ?>
32             <tr>
33                 <td><?php echo $r['ID'];?></td>
34                 <td><?php echo $r['Nama'];?></td>
35                 <td><?php echo $r['Email'];?></td>
36                 <td><?php echo $r['Phone'];?></td>
37             </tr>
38     <?php
39         } while ($r=mysqli_fetch_array($q));
40     } else {
```



```
41      ?>
42      <tr>
43          <td colspan=4><b>Rekord tabel tidak ada !</b></td>
44      </tr>
45      <?php
46      }
47      ?>
48      </tbody>
49  </table>
50 </div>
51 </body>
52 </html>
```

6. Buat file hapusmhs.php

```
1  <?php
2  if (isset($_GET['ID'])) {
3      include('koneksi.db.php');
4      $ID=mysqli_real_escape_string($koneksi,$_GET['ID']);
5      $sql="DELETE FROM `students` WHERE ID='".$ID."'";
6      $q=mysqli_query($koneksi,$sql);
7      if ($q) {
8          echo "Rekord dengan ID : ".$ID." sudah dihapus !";
9      } else {
10         echo "Rekord gagal dihapus !";
11     }
12 }
13 ?>
```

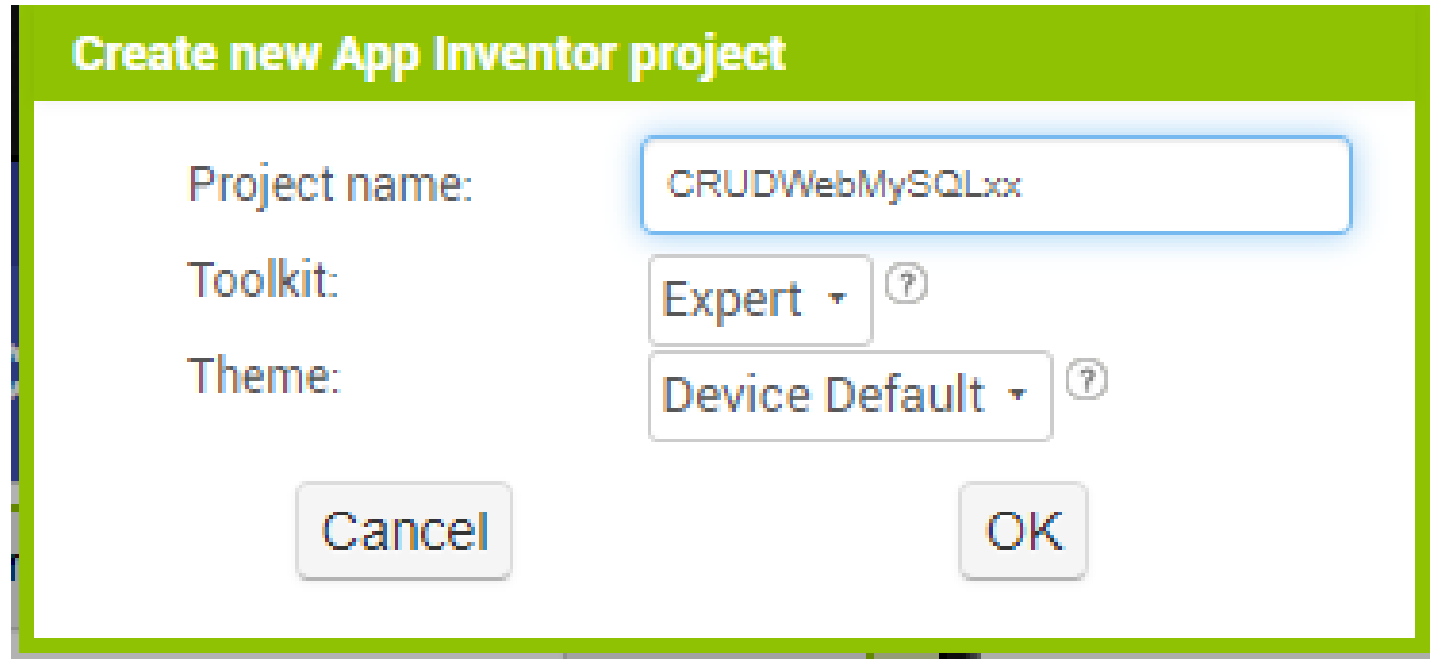
7. Buat file koreksimhs.php

```
1 <?php
2 include('koneksi.db.php');
3 if (!$koneksi) {
4     exit();
5 }
6 if (isset($_GET['ID'])) {
7     $ID=mysqli_real_escape_string($koneksi,$_GET['ID']);
8     $Nama=mysqli_real_escape_string($koneksi,$_GET['Nama']);
9     $Email=mysqli_real_escape_string($koneksi,$_GET['Email']);
10    $Phone=mysqli_real_escape_string($koneksi,$_GET['Phone']);
11    $sql="SELECT * FROM `students` WHERE ID='".$ID."'";
12    $q=mysqli_query($koneksi,$sql);
13    $r=mysqli_fetch_array($q)
14    if (!empty($r)) {
15        $sql="UPDATE `students` SET Nama='".$Nama."', `Email`='".$Email."', `Phone`='".$Phone."' WHERE
16        `ID`='".$ID."'";
17        $q=mysqli_query($koneksi,$sql);
18        if ($q) {
19            echo "Rekord sudah tersimpan !";
20        } else {
21            echo "Rekord gagal tersimpan !";
22        }
23    } else {
24        echo "Rekord yang akan dikoreksi tidak ditemukan !";
25    }
26 ?>
```

Sesi 2. Pemrograman Android dengan App Inventor

1. Buat Project :

1. Buat project baru
CRUDWebMySQLxx
Ganti xx dengan kelas / npm kamu



The screenshot shows a dialog box titled "Create new App Inventor project" with a green header. It contains three input fields: "Project name:" with the text "CRUDWebMySQLxx", "Toolkit:" with a dropdown menu set to "Expert", and "Theme:" with a dropdown menu set to "Device Default". Each dropdown menu has a small question mark icon to its right. At the bottom of the dialog are two buttons: "Cancel" on the left and "OK" on the right.

Create new App Inventor project

Project name: CRUDWebMySQLxx

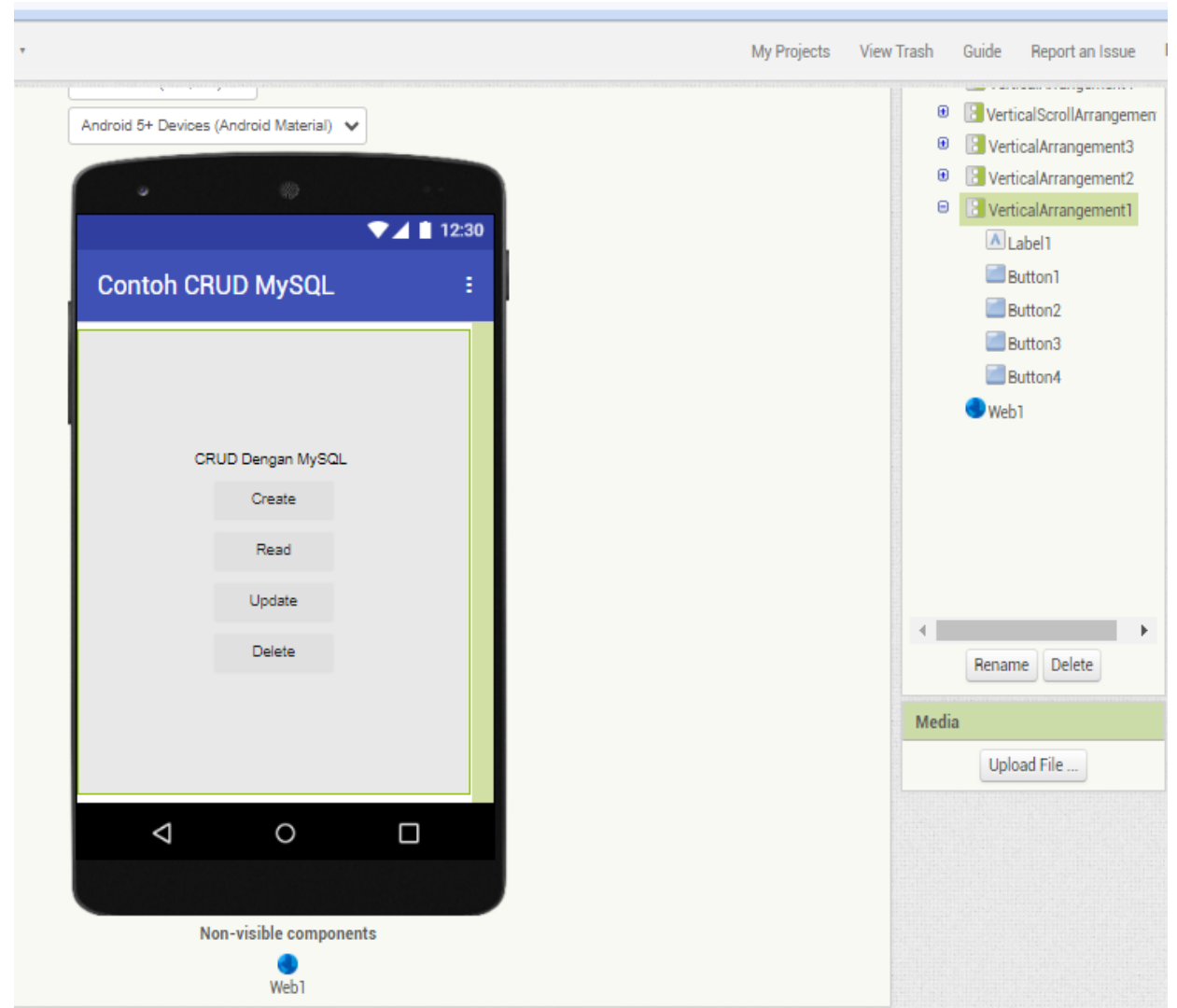
Toolkit: Expert ?

Theme: Device Default ?

Cancel OK

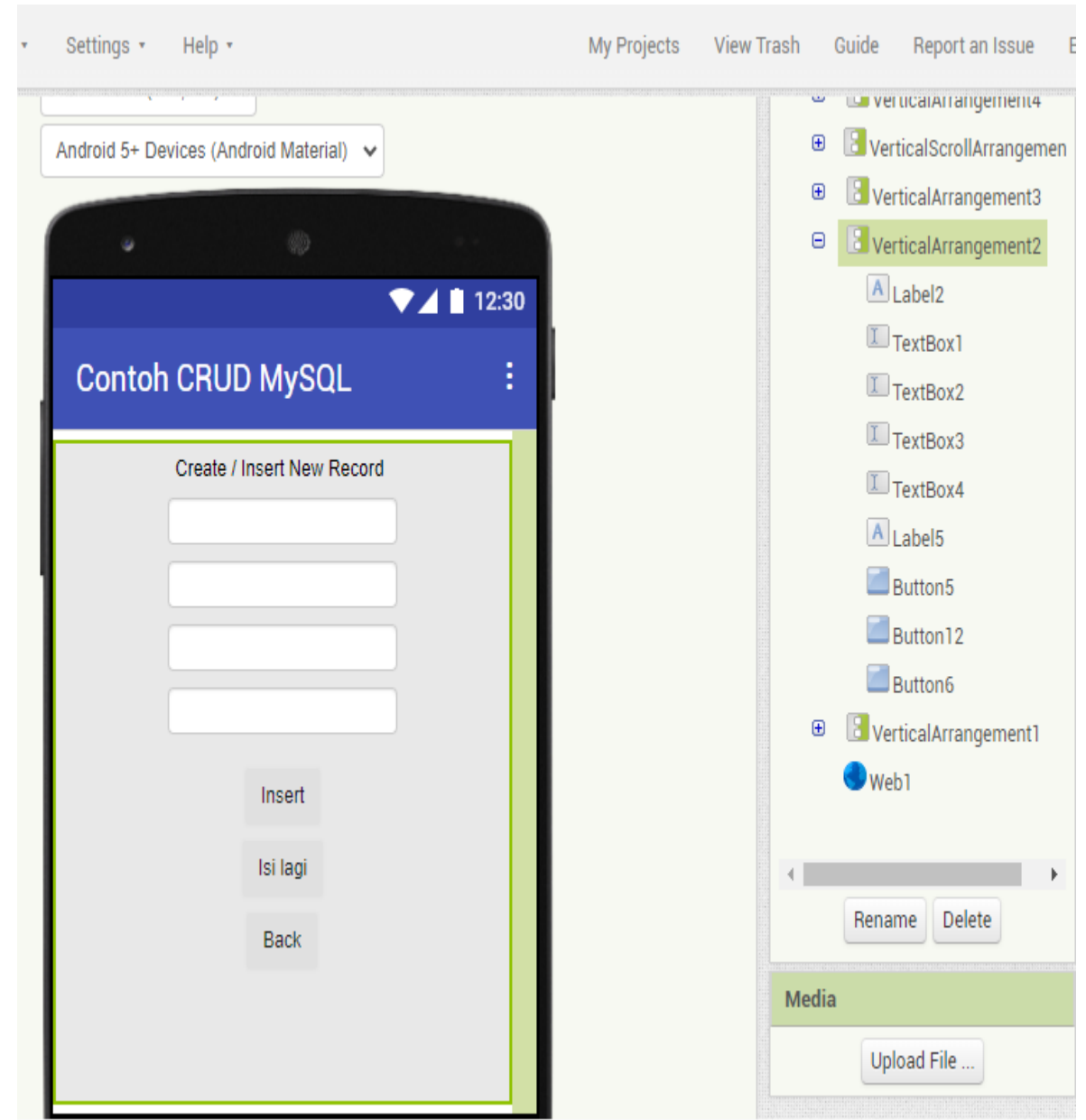
2. Buat Desain Menu Utama

1. Masukkan komponen VerticalArrangement1
2. Masukkan komponen Label1
3. Masukkan komponen Button1 s/d 4
4. Silahkan atur Judul Screen
5. Ubah text Label1
6. Ubah text Button1 s/d Button4 dengan Create, Read, Update dan Delete



3. Buat Desain Insert

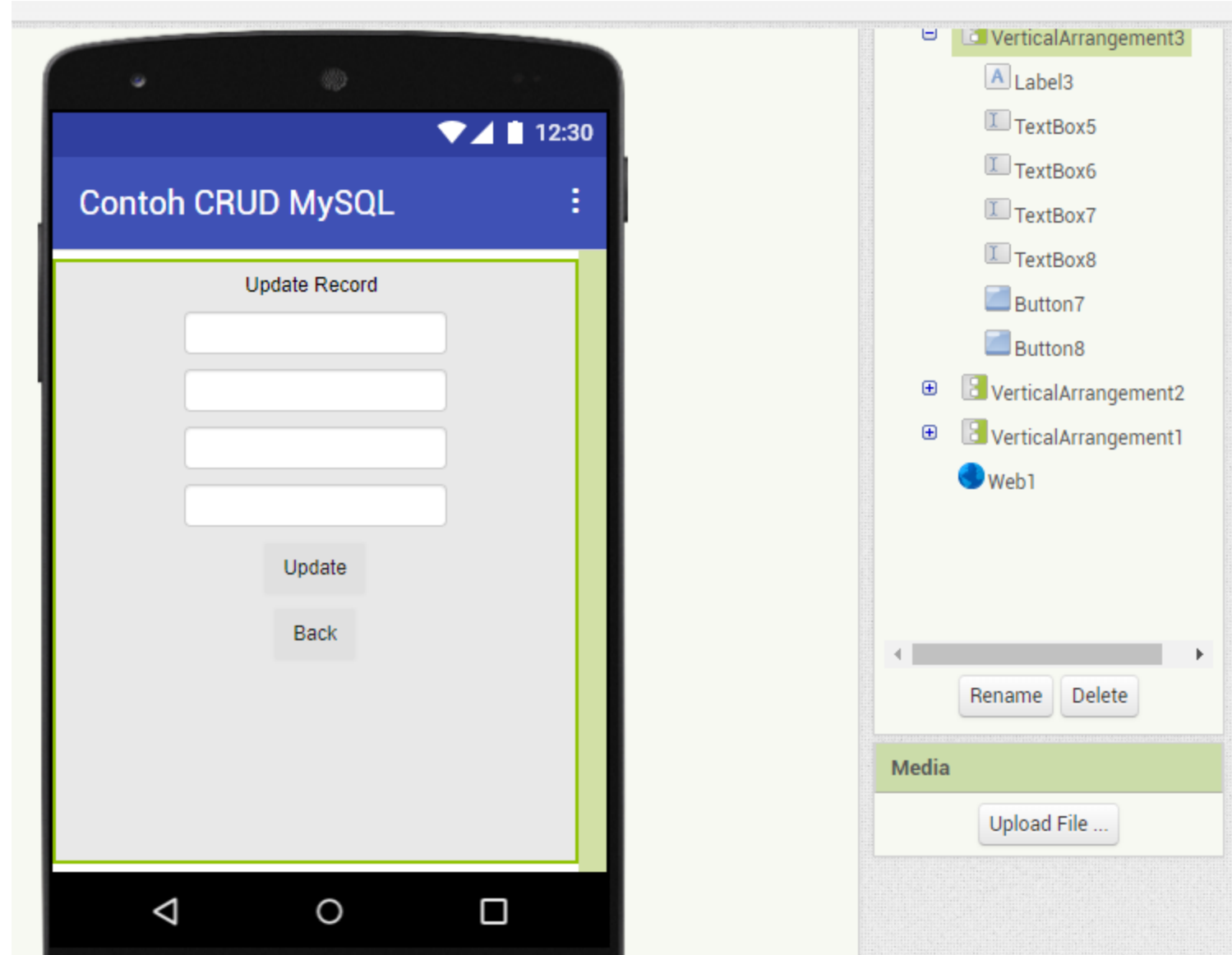
1. Masukkan komponen VerticalArrangement2
2. Masukkan komponen Label2
3. Masukkan TextBox1 s/d TextBox4
4. Masukkan Label6
5. Masukkan Button5
6. Masukkan Button6
7. Masukkan Button12



4. Buat Desain Update

Masukkan komponen :

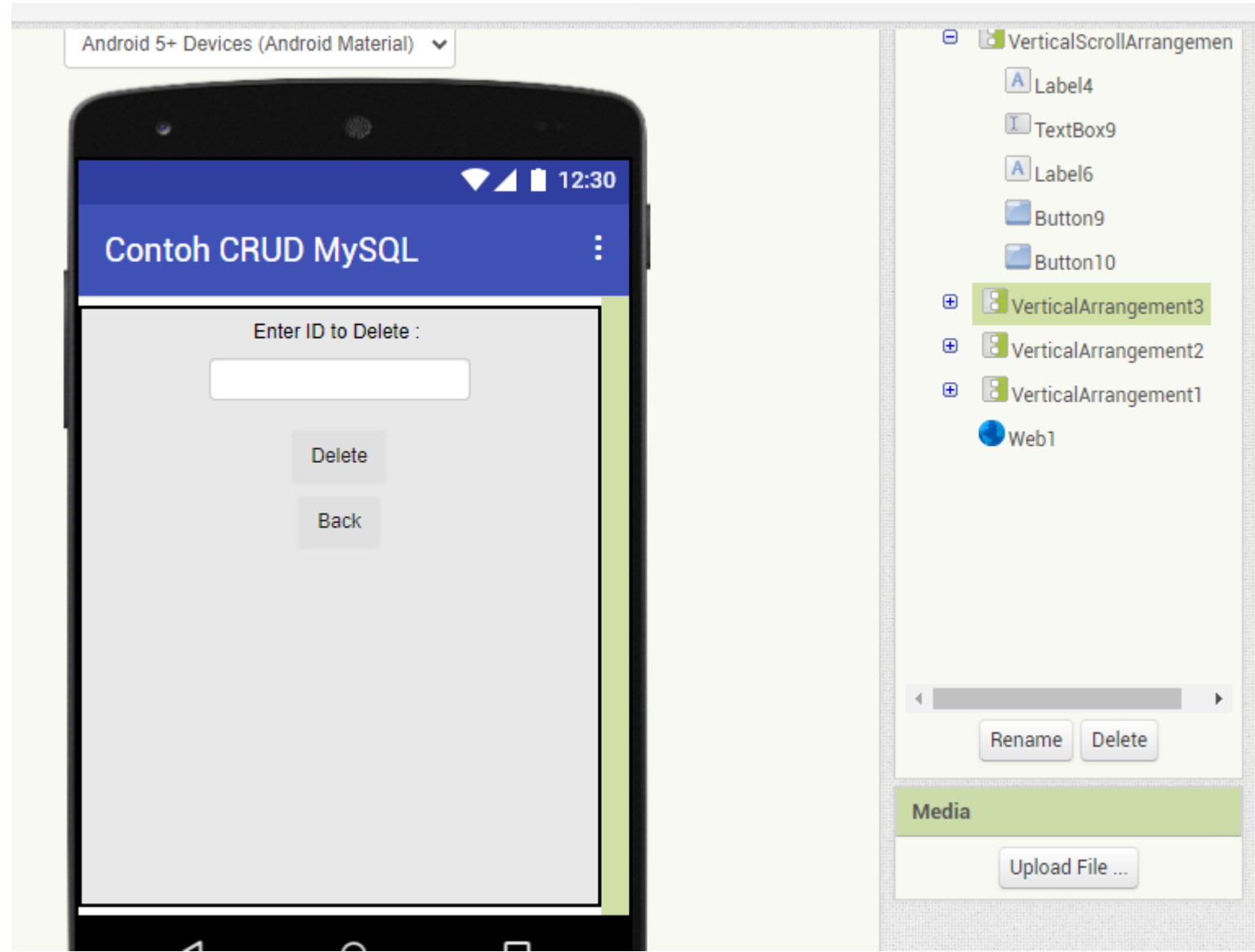
1. VerticalArrangement3
2. Label3
3. TextBox5 s/d TextBox8
4. Button7 s/d Button8



5. Buat Desain Delete

Masukkan komponen :

1. VerticalScrollArrangment1
2. Label4
3. TextBox9
4. Label 6
5. Button9 s/d Button10



6. Buat Code Block untuk Menu Utama

```
when Button1 .Click
do
  set VerticalArrangement2 . Visible to true
  set VerticalArrangement1 . Visible to false
  call kosongkanisianinsert
```

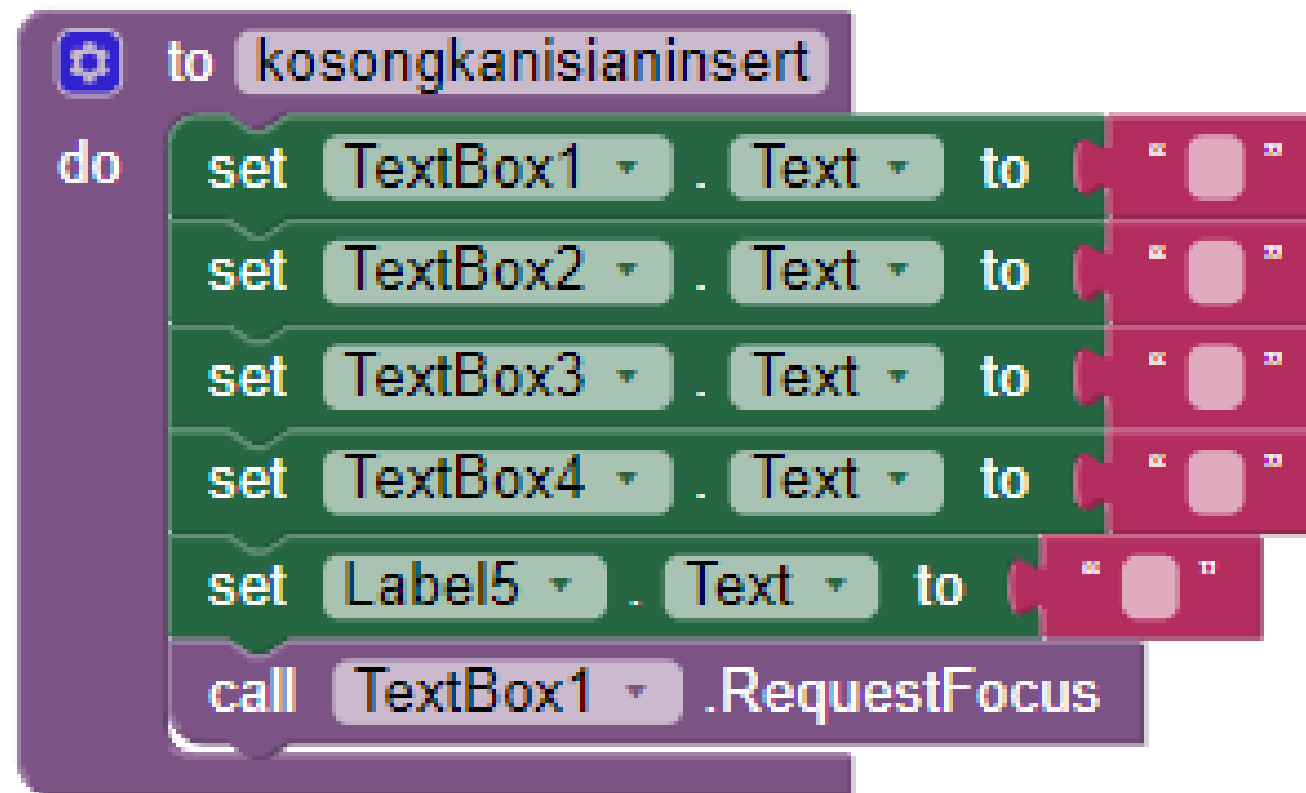
```
when Button2 .Click
do
  set VerticalArrangement4 . Visible to true
  set VerticalArrangement1 . Visible to false
  call WebView1 .GoToUrl
  url "http://192.168.1.13/studentscrud/daftarmhs.php"
```

```
when Button3 .Click
do
  set VerticalArrangement3 . Visible to true
  set VerticalArrangement1 . Visible to false
```

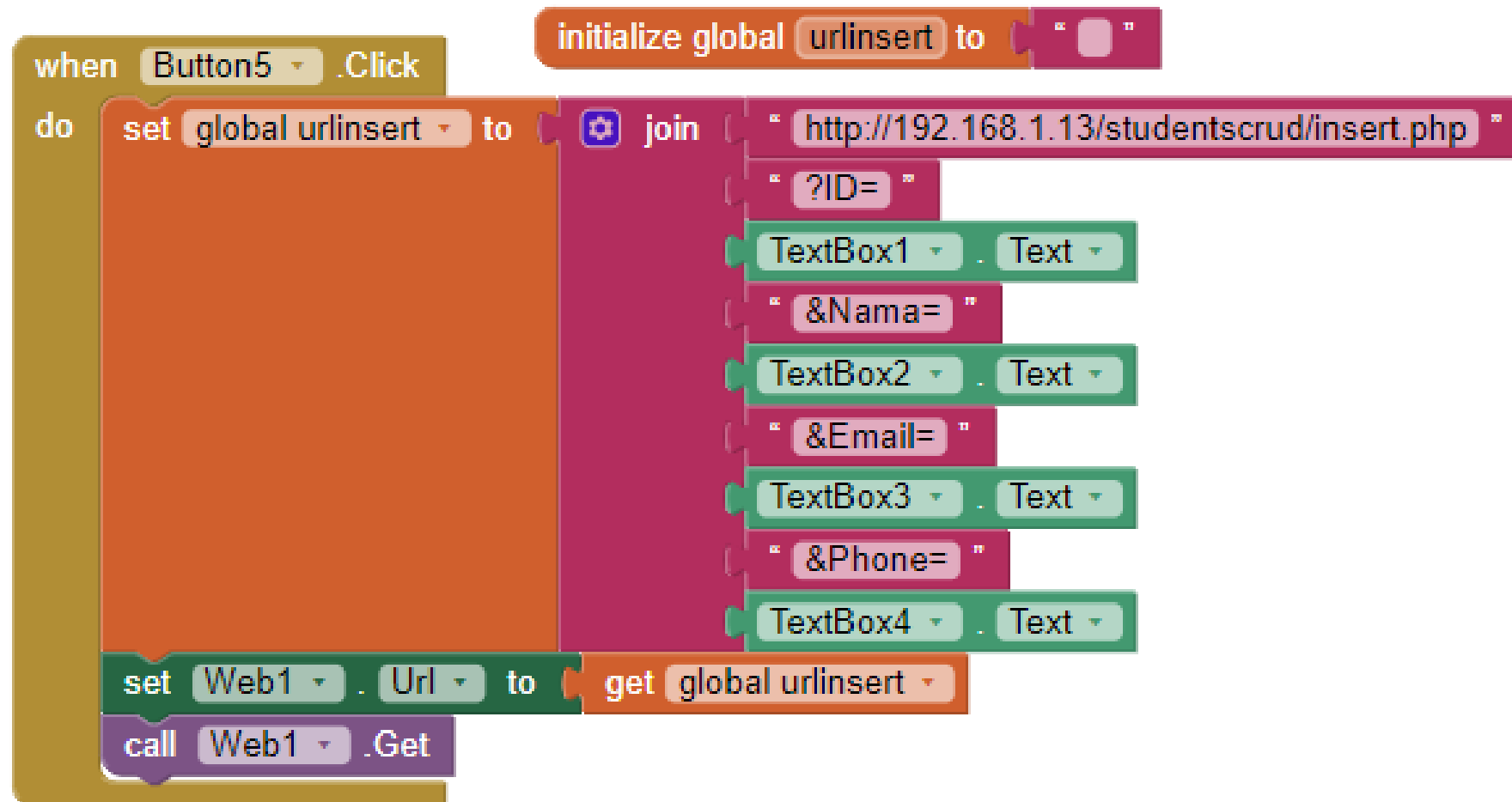
```
when Button4 .Click
do
  set VerticalArrangement1 . Visible to false
  set VerticalScrollArrangement1 . Visible to true
  set Label6 . Text to " "

```

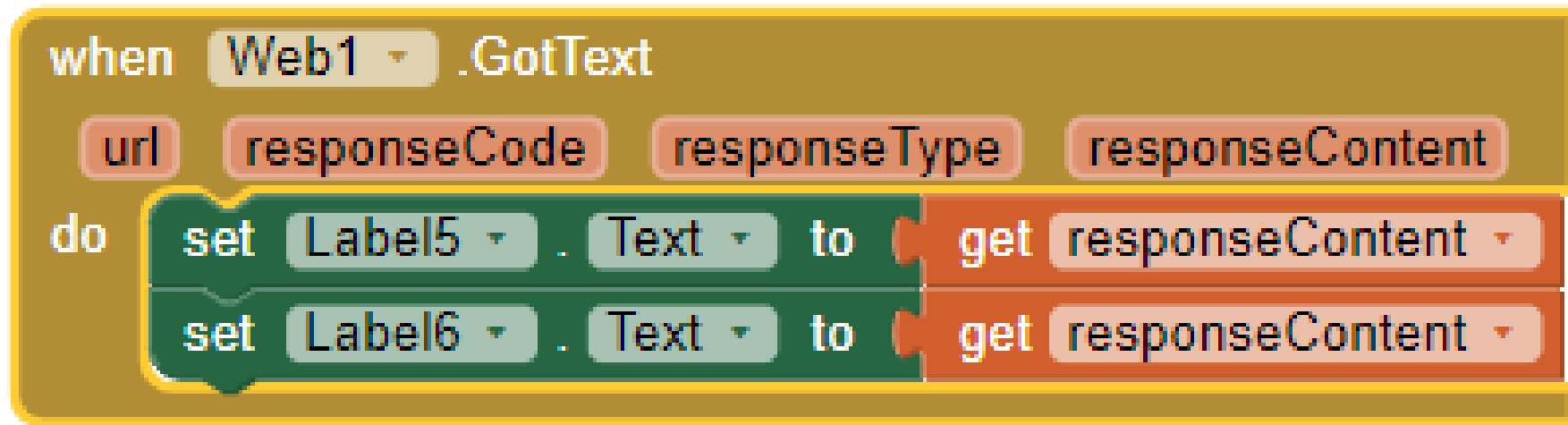
7. Buat Procedure untuk Kosongkan Isian Halaman Insert (TextBox1 s/d TextBox4



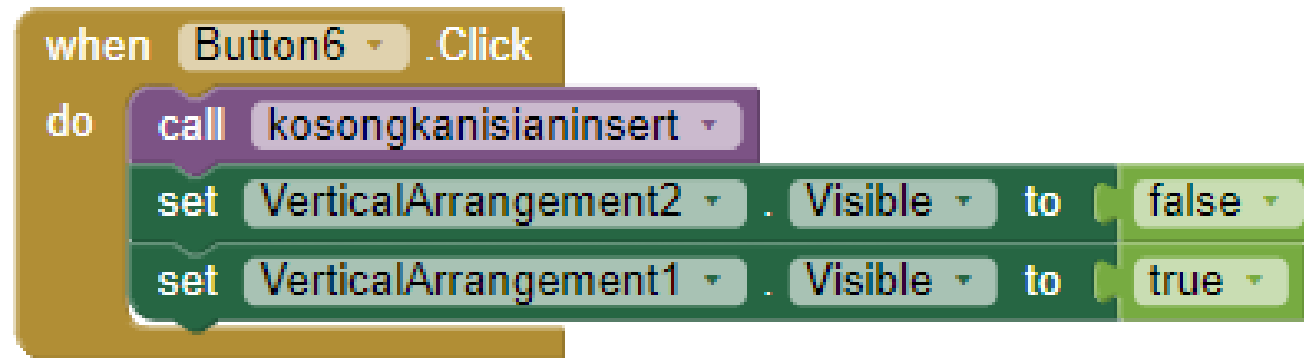
8. Buat Code Block Untuk Menyimpan Rekord Baru (Button5 / Tombol Insert)



9. Buat Code Block Respon Saat Setelah Simpan
Rekord Baru / Insert atau Setelah Hapus Rekord /
Delete



10. Buat Code Block untuk Tombol Back dan Tombol Isi Lagi di Halaman Insert



11. Buat Code Block Halaman Delete / Hapus Rekord

```
when Button9 .Click
do
  set global urlinsert to join (
    " http://192.168.1.13/studentscrud/hapusmhs.php "
    " ?ID= "
    TextBox9 . Text
  )
  set Web1 . Url to get global urlinsert
  call Web1 .Get
```

```
when Button11 .Click
do
  set VerticalArrangement4 . Visible to false
  set VerticalArrangement1 . Visible to true
```

```
when Button10 .Click
do
  set VerticalScrollArrangement1 . Visible to false
  set VerticalArrangement1 . Visible to true
```

Tampilan Hasil Aplikasi



CRUD Dengan MySQL

Create

Read

Update

Delete



Create / Insert New Record

Ketik Nomor Pokok Mah:

Ketik Nama Mahasiswa

Ketik Email Mahasiswa

Ketik Nomor Handphone

Insert

Isi lagi

Back



Daftar Mahasiswa

Berikut ini daftar mahasiswa yang telah daftar :

NPM	Nama Mahasiswa	Email	No. Handphone
1234567890	Harry Witriyono	harrywitriyono@gmail.com	08153902534
2147483647	KEVIN AVIANTORO	kevinaviantoro@umb.ac.id	12312312312

Back

6:35

Enter ID to Delete :

Ketik ID yang akan dihap

Delete

Back



6:38

Enter ID to Delete :

2147483647

Rekord dengan ID : 2147483647 sudah dihapus !

Delete

Back

Tugas Latihan

- Silahkan Perbaiki Modul Program untuk Koreksi Rekordnya

Update Record

Hint for TextBox1

Hint for TextBox1

Hint for TextBox1

Hint for TextBox1

Update

Back