

LAPORAN WORKSHOP APLIKASI MOBILE
MANAJEMEN FILE & SQLITE



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Hasil Praktikum:

a. Manajemen File

1. Mengubah source dibawah pada MainActivity.java

```
1 package com.example.tugas07;
2
3 import ...
4
5
6
7
8
9
10
11
12
13
14
15
16
17 public class MainActivity extends AppCompatActivity {
18     EditText editText;
19     private int STORAGE_PERMISSION_CODE = 23;
20
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         setContentView(R.layout.activity_main);
25         editText = (EditText) findViewById(R.id.editText2);
26     }
27
28     public void next(View view) {
29         Intent intent = new Intent( packageContext: MainActivity.this, MainActivity2.class);
30         startActivity(intent);
31     }
32
33     public void savePublic(View view){
34         ActivityCompat.requestPermissions( activity: this, new String[]{Manifest.permission.READ_EXTERNAL_STORAGE}, STORAGE_PERMISSION_CODE);
35         String info = editText.getText().toString();
36         File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
37         File myFile = new File(folder, child: "myData1.txt");
38         writeData(myFile, info);
39         editText.setText("");
40     }
41
42     public void savePrivate(View view) {
43         String info = editText.getText().toString();
44         File folder = getExternalFilesDir( type: "syaifudin"); //folder nama
45         File myFile = new File(folder, child: "myData2.txt");
46
47         writeData(myFile, info);
48         editText.setText("");
49     }
50     private void writeData(File myFile, String data) {
51         FileOutputStream fileOutputStream = null;
52         try {
53             System.out.println("YES");
54             fileOutputStream = new FileOutputStream(myFile);
55             fileOutputStream.write(data.getBytes());
56             Toast.makeText( context: this, text: "Done" + myFile.getAbsolutePath(), Toast.LENGTH_SHORT).show();
57         } catch (Exception e) {
58             e.printStackTrace();
59         } finally {
60             if (fileOutputStream != null){
61                 try {
62                     fileOutputStream.close();
63                 } catch (IOException e) {
64                     e.printStackTrace();
65                 }
66             }
67         }
68     }
69 }
```

2. Menambahkan source dibawah pada MainActivity2.java

```

1  package com.example.tugas07;
2
3  import ...
4
14
15  public class MainActivity2 extends AppCompatActivity {
16      TextView showText;
17
18      @Override
19      protected void onCreate(Bundle savedInstanceState) {
20          super.onCreate(savedInstanceState);
21          setContentView(R.layout.activity_main2);
22          showText = (TextView) findViewById(R.id.getText);
23      }
24
25      public void back(View view) {
26          Intent intent = new Intent( packageContext: MainActivity2.this, MainActivity.class);
27          startActivity(intent);
28      }
29
30      public void getPublic(View view){
31          File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
32          File myFile = new File(folder, child: "myData1.txt");
33          String text = getdata(myFile);
34          if (text!=null){
35              showText.setText(text);
36          }else {
37              showText.setText("No Data");
38          }
39      }
40
41      public void getPrivate(View view) {
42          File folder = getExternalFilesDir( type: "syaifudin"); //Folder Name
43          File myFile = new File(folder, child: "myData2.txt"); // File Nama
44          String text = getdata(myFile);
45          if (text != null) {
46              showText.setText(text);
47          } else {
48              showText.setText("No Data");
49          }
50      }
51
52  @ private String getdata(File myfile) {
53      FileInputStream fileInputStream = null;
54      try{
55          fileInputStream = new FileInputStream(myfile);
56          int i =-1;
57          StringBuffer buffer = new StringBuffer();
58          while ((i = fileInputStream.read()) != -1){
59              buffer.append((char) i);
60          }
61          return buffer.toString();
62      }catch (Exception e) {
63          e.printStackTrace();
64      }finally {
65          if (fileInputStream != null) {
66              try {
67                  fileInputStream.close();
68              }catch (IOException e) {
69                  e.printStackTrace();
70              }
71          }
72      }
73      return null;
74  }
75  }

```

3. Mengubah source di bawah pada activity_main.xml

```
1 |<?xml version="1.0" encoding="utf-8"?>
2 |<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3 |    xmlns:app="http://schemas.android.com/apk/res-auto"
4 |    xmlns:tools="http://schemas.android.com/tools"
5 |    android:id="@+id/activity_main"
6 |    android:layout_width="match_parent"
7 |    android:layout_height="match_parent"
8 |    android:paddingBottom="16dp"
9 |    android:paddingLeft="16dp"
10 |    android:paddingRight="16dp"
11 |    android:paddingTop="16dp"
12 |    tools:context=".MainActivity">
13 |
14 |    <TextView
15 |        android:id="@+id/textView"
16 |        android:layout_width="match_parent"
17 |        android:layout_height="wrap_content"
18 |        android:layout_alignParentTop="true"
19 |        android:layout_marginTop="46dp"
20 |        android:gravity="center"
21 |        android:text="add text"
22 |        android:textSize="18sp"
23 |        android:textStyle="bold|italic" />
24 |
25 |    <Button
26 |        android:id="@+id/button4"
27 |        android:layout_width="wrap_content"
28 |        android:layout_height="wrap_content"
29 |        android:layout_alignLeft="@+id/button"
30 |        android:layout_alignParentBottom="true"
31 |        android:layout_alignStart="@+id/button"
32 |        android:layout_marginBottom="52dp"
33 |        android:layout_marginLeft="96dp"
```

```

33         android:layout_marginStart="96dp"
34         android:onClick="next"
35         android:text="Click tio View" />
36     <Button
37         android:id="@+id/button2"
38         android:layout_width="wrap_content"
39         android:layout_height="wrap_content"
40         android:layout_above="@id/button4"
41         android:layout_alignParentEnd="true"
42         android:layout_marginBottom="22dp"
43         android:layout_marginEnd="32dp"
44         android:onClick="savePublic"
45         android:text="Save as Public" />
46     <Button
47         android:id="@id/button"
48         android:layout_width="wrap_content"
49         android:layout_height="wrap_content"
50         android:layout_alignBaseline="@id/button2"
51         android:layout_alignParentLeft="true"
52         android:layout_alignParentStart="true"
53         android:layout_marginLeft="24dp"
54         android:layout_marginStart="24dp"
55         android:onClick="savePrivate"
56         android:text="Save as Private" />
57     <EditText
58         android:id="@+id/editText2"
59         android:layout_width="match_parent"
60         android:layout_height="wrap_content"
61         android:layout_alignParentLeft="true"
62         android:layout_alignParentStart="true"
63         android:layout_below="@+id/textView"
64         android:layout_marginTop="16dp"
65         android:ems="10"
66         android:gravity="center_vertical|center"
67         android:inputType="textMultiLine" />
68
69
70
71
72 </RelativeLayout>

```

4. Menambahkan source dibawah ini pada res ->value->dimens.xml

```
1      <?xml version="1.0" encoding="utf-8"?>
2      <resources>
3          <dimen name="activity_horizontal_margin">16dp</dimen>
4          <dimen name="activity_vertical_margin">16dp</dimen>
5      </resources>
```

5. Merubah source di bawah pada res->value->color.xml

```
1      <?xml version="1.0" encoding="utf-8"?>
2      <resources>
3          <color name="purple_200">#FFBB86FC</color>
4          <color name="purple_500">#FF6200EE</color>
5          <color name="purple_700">#FF3700B3</color>
6          <color name="teal_200">#FF03DAC5</color>
7          <color name="teal_700">#FF018786</color>
8          <color name="black">#FF000000</color>
9          <color name="white">#FFFFFFFF</color>
10         <color name="colorPrimary">#3F51B5</color>
11         <color name="colorPrimaryDark">#303F9F</color>
12         <color name="colorAccent">#FF4081</color>
13     </resources>
```

6. Menambahkan source di bawah pada activity_main2.xml

```
1      <?xml version="1.0" encoding="utf-8"?>
2      <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3          xmlns:app="http://schemas.android.com/apk/res-auto"
4          xmlns:tools="http://schemas.android.com/tools"
5          android:layout_width="match_parent"
6          android:layout_height="match_parent"
7          android:paddingBottom="16dp"
8          android:paddingLeft="16dp"
9          android:paddingRight="16dp"
10         android:paddingTop="16dp"
11         tools:context=".MainActivity2">
12
13         <TextView
14             android:id="@+id/getText"
15             android:layout_width="match_parent"
16             android:layout_height="wrap_content"
17             android:layout_alignParentLeft="true"
18             android:layout_alignParentStart="true"
19             android:layout_marginTop="33dp"
20             android:gravity="center"
21             android:text=""
22             android:textSize="18sp"
23             android:textStyle="bold|italic" />
24
25         <Button
26             android:id="@+id/button3"
27             android:layout_width="wrap_content"
28             android:layout_height="wrap_content"
29             android:layout_above="@+id/button5"
30             android:layout_alignParentEnd="true"
31             android:layout_alignParentRight="true"
32             android:onClick="getPublic">
```

```

35 <Button
36     android:id="@+id/button2"
37     android:layout_width="wrap_content"
38     android:layout_height="wrap_content"
39     android:layout_alignParentLeft="true"
40     android:layout_alignParentStart="true"
41     android:layout_below="@+id/getText"
42     android:layout_marginTop="178dp"
43     android:onClick="getPrivate"
44     android:text="Show Private Data"
45     tools:ignore="unknownId" />
46
47 <Button
48     android:id="@+id/button5"
49     android:layout_width="wrap_content"
50     android:layout_height="wrap_content"
51     android:layout_below="@+id/button2"
52     android:layout_centerHorizontal="true"
53     android:layout_marginTop="59dp"
54     android:onClick="back"
55     android:text="Back" />
56
57 </RelativeLayout>

```

7. Menambahkan source di bawah pada res->value->string.xml

```

1 <resources>
2     <string name="app_name">Tugas07</string>
3     <string name="add_text">add text</string>
4     <string name="click_to_view">Click to View</string>
5     <string name="save_as_public">Save as Public</string>
6     <string name="save_as_private">Save as Private</string>
7     <string name="show_public_data">Show Public Data</string>
8     <string name="show_provate_data">Show Private Data</string>
9     <string name="back">Back</string>
10 </resources>

```

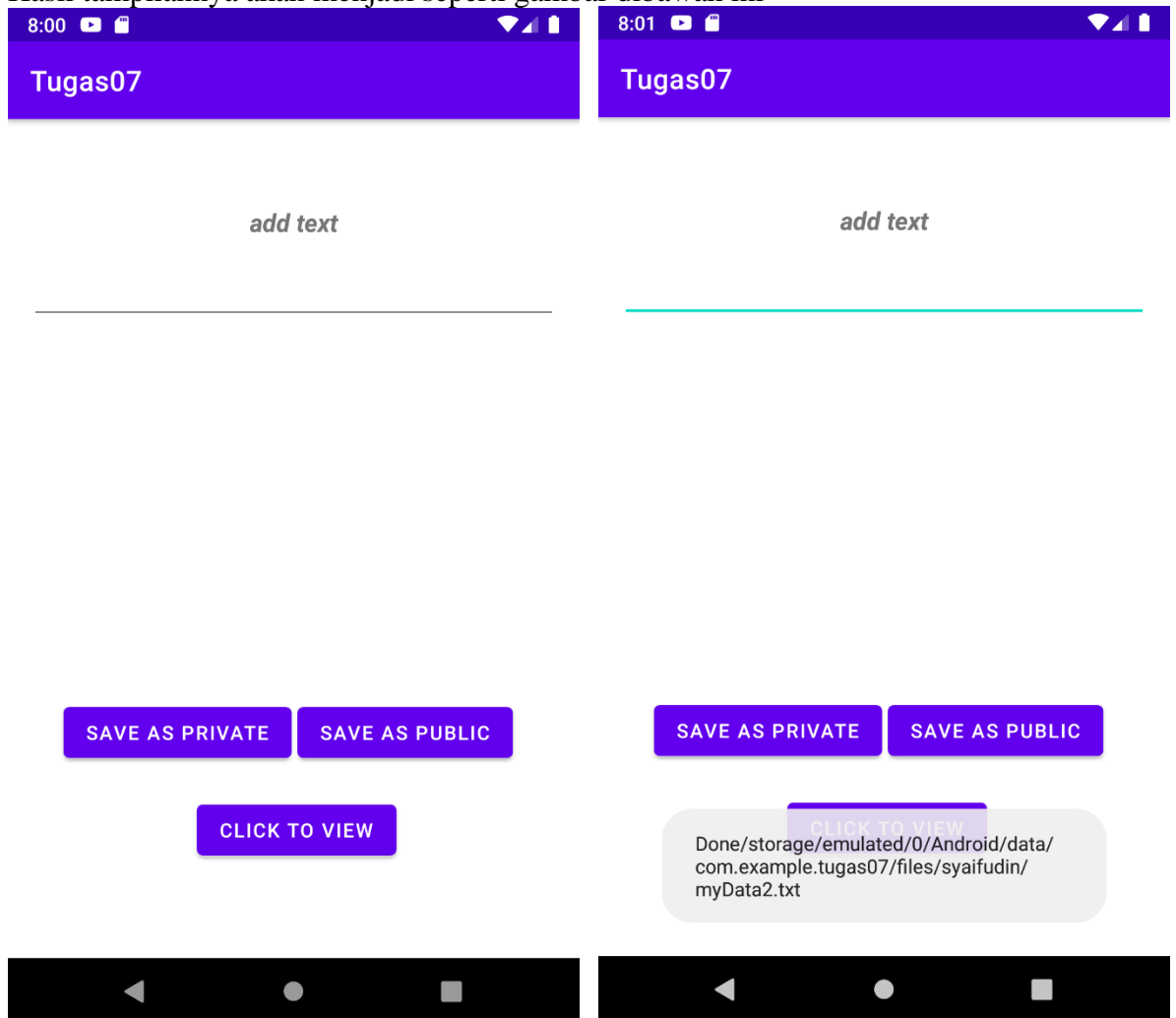
8. Menambahkan source di bawah pada AndroidManifest.xml

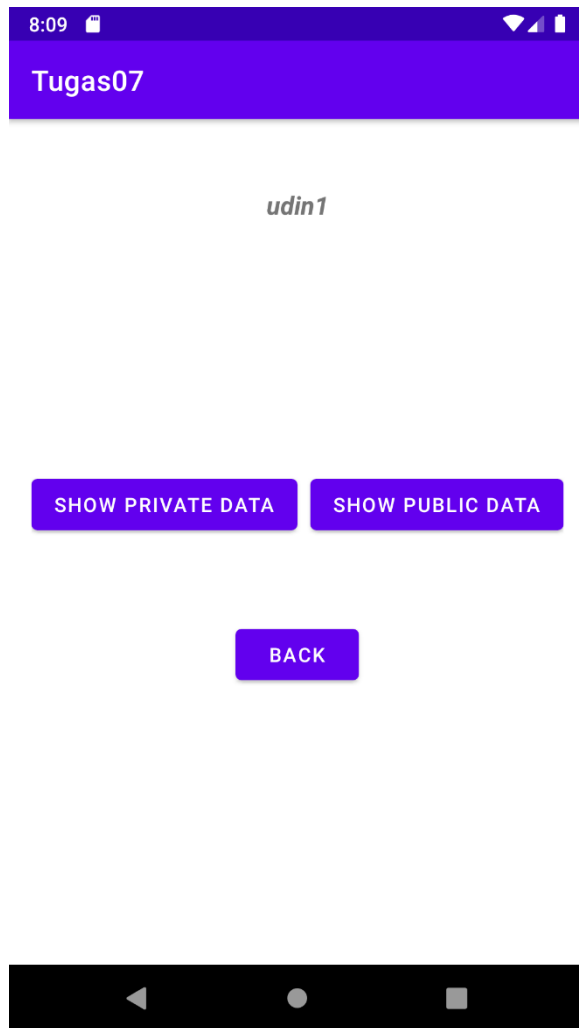
```

1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3      package="com.example.tugas07">
4      <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
5      <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
6
7      <application
8          android:allowBackup="true"
9          android:icon="@mipmap/ic_launcher"
10         android:label="Tugas07"
11         android:roundIcon="@mipmap/ic_launcher_round"
12         android:supportRtl="true"
13         android:theme="@style/Theme.Tugas07">
14         <activity android:name=".MainActivity2"></activity>
15         <activity android:name=".MainActivity">
16             <intent-filter>
17                 <action android:name="android.intent.action.MAIN" />
18
19                 <category android:name="android.intent.category.LAUNCHER" />
20             </intent-filter>
21         </activity>
22     </application>
23
24 </manifest>

```

9. Hasil tampilannya akan menjadi seperti gambar dibawah ini





b. SQLite

1. Buat DataHelper.java, **DataHelper.java** ini adalah proses pembuatan Database SQLiteSimpan dengan Nama DataHelper.java.

```

1  package com.example.tugas07_2;
2
3  import ...
7
8  public class DataHelper extends SQLiteOpenHelper {
9
10     private static final String DATABASE_NAME = "biodatadiri.db";
11     private static final int DATABASE_VERSION = 1;
12
13     public DataHelper(Context context) { super(context, DATABASE_NAME, factory: null, DATABASE_VERSION); }
14
15     @Override
16     public void onCreate(SQLiteDatabase db) {
17         String sql = "create table biodata (no integer primary key, nama text null, tgl text null, jk text null, alamat text null);";
18         Log.d( tag: "Data", msg: "onCreate:" + sql);
19         db.execSQL(sql);
20         sql = "INSERT INTO biodata (no, nama, tgl, jk, alamat) VALUES ('1','Darsiwan', '1996-07-12', 'Laki-laki', 'Indramayu');";
21         db.execSQL(sql);
22     }
23
24     @Override
25     public void onUpgrade(SQLiteDatabase arg0, int arg1, int arg2) {
26     }
27 }

```

2. Buat layout xml pada **activity_main.xml**

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingBottom="16dp"
8      android:paddingLeft="16dp"
9      android:paddingRight="16dp"
10     android:paddingTop="16dp"
11     tools:context=".DataHelper">
12     <ListView
13         android:id="@+id/listView1"
14         android:layout_width="match_parent"
15         android:layout_height="wrap_content"
16         android:layout_alignParentTop="true"
17         android:layout_alignParentRight="true"
18         android:layout_alignParentEnd="true"
19         android:layout_above="@+id/button2"
20         tools:ignore="UnknownId" />
21     <Button
22         android:id="@+id/button2"
23         android:layout_width="wrap_content"
24         android:layout_height="wrap_content"
25         style="?android:attr/borderlessButtonStyle"
26         android:drawableLeft="@drawable/ic_baseline_add_24"
27         android:text="Buat Biodata Baru"
28         android:textColor="@color/black"
29         android:layout_alignParentBottom="true"
30         android:layout_alignParentLeft="true"
31         android:layout_alignParentStart="true" />
32 </RelativeLayout>
```

3. Tuliskan source di bawah pada **MainActivity.java**

```

1 package com.example.tugas07_2;
2
3 import ...
4
17
18 public class MainActivity extends AppCompatActivity {
19     String[] daftar;
20     ListView ListView01;
21     Menu menu;
22     protected Cursor cursor;
23     DataHelper dbcenter;
24     public static MainActivity ma;
25
26
27     @Override
28     protected void onCreate(Bundle savedInstanceState) {
29         super.onCreate(savedInstanceState);
30         setContentView(R.layout.activity_main);
31
32         Button btn=(Button)findViewById(R.id.button2);
33         btn.setOnClickListener(new View.OnClickListener() {
34             @Override
35             public void onClick(View arg0){
36                 Intent inte = new Intent( packageContext MainActivity.this,BuatBiodata.class);
37                 startActivity(inte);
38             }
39         });
40
41         ma = this;
42         dbcenter = new DataHelper( context: this);
43         RefreshList();
44     }
45
46     void RefreshList() {
47         SQLiteDatabase db = dbcenter.getReadableDatabase();
48         cursor = db.rawQuery( sql: "SELECT*FROM biodata", selectionArgs: null);
49         daftar = new String[cursor.getCount()];
50         cursor.moveToFirst();
51         for (int cc=0; cc<cursor.getCount(); cc++){
52             cursor.moveToPosition(cc);
53             daftar[cc]=cursor.getString( columnIndex: 1).toString();
54         }
55         ListView01 = (ListView)findViewById(R.id.ListView1);
56         ListView01.setAdapter(new ArrayAdapter( context: this, android.R.layout.simple_list_item_1, daftar));
57         ListView01.setSelected(true);
58
59         ListView01.setOnItemClickListener(new AdapterView.OnItemClickListener() {
60             @Override
61             public void onItemClick(AdapterView arg0, View arg1, int arg2, long arg3) {
62                 final String selection = daftar[arg2];
63                 final CharSequence[] dialogitem = {"Lihat Biodata","Update Biodata","Hapus Biodata"};
64                 AlertDialog.Builder builder = new AlertDialog.Builder( context: MainActivity.this);
65                 builder.setTitle("Pilihan");
66                 builder.setItems(dialogitem, new DialogInterface.OnClickListener() {
67                     @Override
68                     public void onClick(DialogInterface dialog, int item) {
69                         switch (item){
70                             case 0:
71                                 Intent i = new Intent(getApplicationContext(), LihatBiodata.class);
72                                 i.putExtra( name: "nama",selection);
73                                 startActivity(i);
74                                 break;
75                             case 1:
76                                 Intent in = new Intent(getApplicationContext(), UpdateBiodata.class);
77                                 in.putExtra( name: "nama",selection);
78                                 startActivity(in);
79                                 break;
80                             case 2:

```

```

81         SQLiteDatabase db = dbcenter.getWritableDatabase();
82         db.execSQL("delete from biodata where nama ='"+selection+"'");
83         RefreshList();
84         break;
85     }
86 }
87 });
88 builder.create().show();
89 });
90 ((ArrayAdapter)ListView01.getAdapter()).notifyDataSetInvalidated();
91 }
92 }

```

4. Buat 3 Empty Activity baru, buat nama Layout sebagai berikut:

- activity_buat_biodata.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingLeft="16dp"
8      android:paddingRight="16dp"
9      android:paddingBottom="16dp"
10     android:paddingTop="16dp"
11     tools:context=".BuatBiodata">
12
13     <EditText
14         android:id="@+id/editText1"
15         android:layout_width="match_parent"
16         android:layout_height="wrap_content"
17         android:layout_alignLeft="@+id/textView1"
18         android:layout_below="@+id/textView1"
19         android:inputType="number"
20         android:maxLength="10">
21         <requestFocus/>
22     </EditText>
23
24     <TextView
25         android:id="@+id/textView1"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:layout_alignParentLeft="true"
29         android:layout_alignParentTop="true"
30         android:text="Nomor"/>
31     <TextView
32         android:id="@+id/textView2"

```

```

63         android:id="@+id/textView4"
64         android:layout_width="wrap_content"
65         android:layout_height="wrap_content"
66         android:layout_alignLeft="@+id/editText3"
67         android:layout_below="@+id/editText3"
68         android:layout_marginTop="10dp"
69         android:text="Jenis Kelamin"/>
70     <EditText
71         android:id="@+id/editText4"
72         android:layout_width="match_parent"
73         android:layout_height="wrap_content"
74         android:layout_alignLeft="@+id/textView4"
75         android:layout_below="@+id/textView4"
76         android:inputType="text"
77         android:maxLength="1"
78         android:hint="L atau P"/>
79     <TextView
80         android:id="@+id/textView5"
81         android:layout_width="wrap_content"
82         android:layout_height="wrap_content"
83         android:layout_alignLeft="@+id/editText4"
84         android:layout_below="@+id/editText4"
85         android:layout_marginTop="10dp"
86         android:text="Alamat"/>
87     <EditText
88         android:id="@+id/editText5"
89         android:layout_width="match_parent"
90         android:layout_height="wrap_content"
91         android:layout_alignLeft="@+id/textView5"
92         android:layout_below="@+id/textView5"
93         android:layout_width="wrap_content"
94         android:layout_height="wrap_content"
95         android:layout_alignLeft="@+id/editText1"
96         android:layout_below="@+id/editText1"
97         android:layout_marginTop="10dp"
98         android:text="Nama"/>
99     <EditText
100         android:id="@+id/editText2"
101         android:layout_width="match_parent"
102         android:layout_height="wrap_content"
103         android:layout_alignLeft="@+id/textView2"
104         android:layout_below="@+id/textView2"
105         android:inputType="text"
106         android:maxLength="20"/>
107     <TextView
108         android:id="@+id/textView3"
109         android:layout_width="wrap_content"
110         android:layout_height="wrap_content"
111         android:layout_alignLeft="@+id/editText2"
112         android:layout_below="@+id/editText2"
113         android:layout_marginTop="10dp"
114         android:text="Tanggal Lahir"/>
115     <EditText
116         android:id="@+id/editText3"
117         android:layout_width="match_parent"
118         android:layout_height="wrap_content"
119         android:layout_alignLeft="@+id/textView3"
120         android:layout_below="@+id/textView3"
121         android:inputType="date"/>
122     <TextView

```

```

93         android:maxLength="100"
94         android:inputType="text"/>
95     <Button
96         android:id="@+id/button1"
97         android:layout_width="wrap_content"
98         android:layout_height="wrap_content"
99         android:layout_alignLeft="@+id/editText5"
100        android:layout_alignParentBottom="true"
101        style="?android:attr/borderlessButtonStyle"
102        android:drawableLeft="@drawable/ic_baseline_done_24"
103        android:textColor="@color/black"
104        android:text="Simpan"/>
105    <Button
106        android:id="@+id/button2"
107        android:layout_width="wrap_content"
108        android:layout_height="wrap_content"
109        android:textColor="@color/black"
110        android:text="Kembali"
111        style="?android:attr/borderlessButtonStyle"
112        android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
113        android:layout_alignParentBottom="true"
114        android:layout_alignRight="@+id/editText5"
115        android:layout_alignEnd="@+id/editText5"/>
116
117 </RelativeLayout>

```

- activity_lihat_biodata.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingTop="16dp"
8      android:paddingLeft="16dp"
9      android:paddingRight="16dp"
10     android:paddingBottom="16dp"
11     tools:context=".LihatBiodata">
12
13     <TextView
14         android:id="@+id/TextView01"
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:text="Nomor"
18         android:layout_marginTop="20dp"/>
19
20     <TextView
21         android:id="@+id/TextView02"
22         android:layout_width="wrap_content"
23         android:layout_height="wrap_content"
24         android:text="Nama"
25         android:layout_below="@+id/TextView01"
26         android:layout_alignLeft="@+id/TextView01"
27         android:layout_marginTop="20dp"/>
28
29     <TextView
30         android:id="@+id/TextView03"
31         android:layout_width="wrap_content"
32         android:layout_height="wrap_content"
33         android:text="Tanggal Lahir"
34         android:layout_below="@+id/TextView02"

```

```

33         android:layout_alignLeft="@+id/TextView02"
34         android:layout_marginTop="20dp"/>
35     <TextView
36         android:id="@+id/TextView04"
37         android:layout_width="wrap_content"
38         android:layout_height="wrap_content"
39         android:text="Jenis Kelamin"
40         android:layout_below="@+id/TextView03"
41         android:layout_alignLeft="@+id/TextView03"
42         android:layout_marginTop="20dp"/>
43     <TextView
44         android:id="@+id/TextView05"
45         android:layout_width="wrap_content"
46         android:layout_height="wrap_content"
47         android:text="Alamat"
48         android:layout_below="@+id/TextView04"
49         android:layout_alignLeft="@+id/TextView04"
50         android:layout_marginTop="20dp"/>
51     <TextView
52         android:id="@+id/textView1"
53         android:layout_width="wrap_content"
54         android:layout_height="wrap_content"
55         android:layout_alignParentTop="true"
56         android:layout_alignParentRight="true"
57         android:text="TextView"
58         android:layout_marginRight="104dp"
59         android:layout_marginTop="20dp" />
60     <TextView
61         android:id="@+id/textView2"
62         android:layout_width="wrap_content"

```

```

63         android:layout_height="wrap_content"
64         android:layout_below="@+id/textView1"
65         android:layout_alignRight="@+id/textView1"
66         android:text="TextView"
67         android:layout_marginTop="20dp"/>
68     <TextView
69         android:id="@id/textView3"
70         android:layout_width="wrap_content"
71         android:layout_height="wrap_content"
72         android:layout_below="@id/textView2"
73         android:layout_alignRight="@id/textView2"
74         android:text="TextView"
75         android:layout_marginTop="20dp"/>
76     <TextView
77         android:id="@id/textView4"
78         android:layout_width="wrap_content"
79         android:layout_height="wrap_content"
80         android:layout_below="@id/textView3"
81         android:layout_alignRight="@id/textView3"
82         android:text="TextView"
83         android:layout_marginTop="20dp"/>
84     <TextView
85         android:id="@id/textView5"
86         android:layout_width="wrap_content"
87         android:layout_height="wrap_content"
88         android:layout_below="@id/textView4"
89         android:layout_alignRight="@id/textView4"
90         android:text="TextView"
91         android:layout_marginTop="20dp"/>
92     <Button

```

```

93         android:id="@+id/button1"
94         android:layout_width="wrap_content"
95         android:layout_height="wrap_content"
96         android:layout_alignLeft="@+id/TextView05"
97         android:layout_below="@id/TextView05"
98         android:layout_marginTop="34dp"
99         android:text="Kembali"
100         android:textColor="@color/black"
101         style="?android:attr/borderlessButtonStyle"
102         android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"/>
103
104     </RelativeLayout>

```

- activity_update_biodata.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:paddingBottom="16dp"
8      android:paddingRight="16dp"
9      android:paddingTop="16dp"
10     android:paddingLeft="16dp"
11     tools:context=".UpdateBiodata">
12
13     <EditText
14         android:id="@+id/editText1"
15         android:layout_width="match_parent"
16         android:layout_height="wrap_content"
17         android:layout_alignLeft="@+id/textView1"
18         android:layout_below="@+id/textView1"
19         android:inputType="number"
20         android:maxLength="10">
21         <requestFocus/>
22     </EditText>
23
24     <TextView
25         android:id="@+id/textView1"
26         android:layout_width="wrap_content"
27         android:layout_height="wrap_content"
28         android:layout_alignParentLeft="true"
29         android:layout_alignParentTop="true"
30         android:text="Nomor"/>
31
32     <TextView
33         android:id="@+id/textView2"
34         android:layout_width="wrap_content"

```

```

33         android:layout_height="wrap_content"
34         android:layout_alignLeft="@+id/editText1"
35         android:layout_below="@+id/editText1"
36         android:layout_marginTop="10dp"
37         android:text="Nama"/>
38     <EditText
39         android:id="@+id/editText2"
40         android:layout_width="match_parent"
41         android:layout_height="wrap_content"
42         android:layout_alignLeft="@+id/textView2"
43         android:layout_below="@+id/textView2"
44         android:inputType="text"
45         android:maxLength="20"/>
46     <TextView
47         android:id="@+id/textView3"
48         android:layout_width="wrap_content"
49         android:layout_height="wrap_content"
50         android:layout_alignLeft="@+id/editText2"
51         android:layout_below="@+id/editText2"
52         android:layout_marginTop="10dp"
53         android:text="Tanggal Lahir"/>
54     <TextView
55         android:id="@+id/editText3"
56         android:layout_width="match_parent"
57         android:layout_height="wrap_content"
58         android:layout_alignLeft="@+id/textView3"
59         android:layout_below="@+id/textView3"
60         android:inputType="date"/>
61     <TextView
62         android:id="@+id/textView4"

```

```

63         android:layout_width="wrap_content"
64         android:layout_height="wrap_content"
65         android:layout_alignLeft="@+id/editText3"
66         android:layout_below="@+id/editText3"
67         android:layout_marginTop="10dp"
68         android:text="Jenis Kelamin"/>
69     <EditText
70         android:id="@+id/editText4"
71         android:layout_width="match_parent"
72         android:layout_height="wrap_content"
73         android:layout_alignLeft="@+id/textView4"
74         android:layout_below="@+id/textView4"
75         android:inputType="text"
76         android:maxLength="1"
77         android:hint="L atau P"/>
78     <TextView
79         android:id="@+id/textView5"
80         android:layout_width="wrap_content"
81         android:layout_height="wrap_content"
82         android:layout_alignLeft="@+id/editText4"
83         android:layout_below="@+id/editText4"
84         android:layout_marginTop="10dp"
85         android:text="Alamat"/>
86     <EditText
87         android:id="@+id/editText5"
88         android:layout_width="match_parent"
89         android:layout_height="wrap_content"
90         android:layout_alignLeft="@+id/textView5"
91         android:layout_below="@+id/textView5"
92         android:maxLength="100"

```

```

93         android:inputType="text"/>
94     <Button
95         android:id="@id/button1"
96         android:layout_width="wrap_content"
97         android:layout_height="wrap_content"
98         android:layout_alignLeft="@id/textView5"
99         android:layout_alignParentBottom="true"
100         style="?android:attr/borderlessButtonStyle"
101         android:drawableLeft="@drawable/ic_baseline_done_24"
102         android:textColor="@color/black"
103         android:text="Update"/>
104     <Button
105         android:id="@id/button2"
106         android:layout_width="wrap_content"
107         android:layout_height="wrap_content"
108         android:textColor="@color/black"
109         android:text="Kembali"
110         style="?android:attr/borderlessButtonStyle"
111         android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
112         android:layout_alignParentBottom="true"
113         android:layout_alignRight="@id/editText5"
114         android:layout_alignEnd="@id/editText5"/>
115 </RelativeLayout>
116

```

- BuatBiodata.java

```

1  package com.example.tugas07_2;
2
3  import ...
4
5
6
7
8
9
10
11
12
13  public class BuatBiodata extends AppCompatActivity {
14      protected Cursor cursor;
15      DataHelper dbHelper;
16      Button ton1, ton2;
17      EditText text1, text2, text3, text4, text5;
18
19      @Override
20      protected void onCreate(Bundle savedInstanceState) {
21          super.onCreate(savedInstanceState);
22          setContentView(R.layout.activity_buat_biodata);
23          dbHelper = new DataHelper( context: this);
24          text1 = (EditText) findViewById(R.id.editText1);
25          text2 = (EditText) findViewById(R.id.editText2);
26          text3 = (EditText) findViewById(R.id.editText3);
27          text4 = (EditText) findViewById(R.id.editText4);
28          text5 = (EditText) findViewById(R.id.editText5);
29          ton1 = (Button) findViewById(R.id.button1);
30          ton2 = (Button) findViewById(R.id.button2);
31
32          ton1.setOnClickListener(new View.OnClickListener() {
33              @Override
34              public void onClick(View arg0) {
35                  SQLiteDatabase db = dbHelper.getWritableDatabase();
36                  db.execSQL("insert into biodata(no, nama, tgl, jk, alamat) values(" +
37                      text1.getText().toString() + ", " +
38                      text2.getText().toString() + ", " +
39                      text3.getText().toString() + ", " +
40                      text4.getText().toString() + ", " +
41                      text5.getText().toString() + ")");
42                  Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_SHORT).show();
43                  MainActivity.ma.RefreshList();

```

```

43         MainActivity.ma.RefreshList();
44         finish();
45     }
46 });
47 ton2.setOnClickListener(new View.OnClickListener() {
48     @Override
49     public void onClick(View arg0) { finish(); }
50 });
51 }
52 }
53 }
54 }

```

- LihatBiodata.java

```

1  package com.example.tugas07_2;
2
3  import ...
4
13
14  public class LihatBiodata extends AppCompatActivity {
15      protected Cursor cursor;
16      DataHelper dbHelper;
17      Button ton2;
18      TextView text1, text2, text3, text4, text5;
19
20      @Override
21      protected void onCreate(Bundle savedInstanceState) {
22          super.onCreate(savedInstanceState);
23          setContentView(R.layout.activity_lihat_biodata);
24          dbHelper = new DataHelper( context: this);
25          text1 = (TextView) findViewById(R.id.textView1);
26          text2 = (TextView) findViewById(R.id.textView2);
27          text3 = (TextView) findViewById(R.id.textView3);
28          text4 = (TextView) findViewById(R.id.textView4);
29          text5 = (TextView) findViewById(R.id.textView5);
30          SQLiteDatabase db= dbHelper.getReadableDatabase();
31          cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = '" +
32              getIntent().getStringExtra( name: "nama") + "'", selectionArgs: null);
33          cursor.moveToFirst();
34          if (cursor.getCount()>0)
35          {
36              cursor.moveToPosition(0);
37              text1.setText (cursor.getString( columnIndex: 0).toString());
38              text2.setText (cursor.getString( columnIndex: 1).toString());
39              text3.setText (cursor.getString( columnIndex: 2).toString());
40              text4.setText (cursor.getString( columnIndex: 3).toString());
41              text5.setText (cursor.getString( columnIndex: 4).toString());
42          }
43          ton2 = (Button) findViewById(R.id.button1);
44
45          ton2.setOnClickListener(new View.OnClickListener() {
46              @Override
47              public void onClick(View arg0) { finish(); }
48          });
49      }
50  }
51 }

```

- UpdateBiodata.java

```

1  package com.example.tugas07_2;
2
3  import ...
4
13  public class UpdateBiodata extends AppCompatActivity {
14      protected Cursor cursor;
15      DataHelper dbHelper;
16      Button ton1, ton2;
17      EditText text1, text2, text3, text4, text5;
18
19      @Override
20      protected void onCreate(Bundle savedInstanceState) {
21          super.onCreate(savedInstanceState);
22          setContentView(R.layout.activity_update_biodata);
23          dbHelper = new DataHelper( context: this);
24          text1 = (EditText) findViewById(R.id.editText1);
25          text2 = (EditText) findViewById(R.id.editText2);
26          text3 = (EditText) findViewById(R.id.editText3);
27          text4 = (EditText) findViewById(R.id.editText4);
28          text5 = (EditText) findViewById(R.id.editText5);
29          SQLiteDatabase db = dbHelper.getReadableDatabase();
30          cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = " +
31              getIntent().getStringExtra( name: "nama") + "'", selectionArgs: null);
32          cursor.moveToFirst();
33          if (cursor.getCount() > 0) {
34              cursor.moveToPosition(0);
35              text1.setText(cursor.getString( columnIndex: 0).toString());
36              text2.setText(cursor.getString( columnIndex: 1).toString());
37              text3.setText(cursor.getString( columnIndex: 2).toString());
38              text4.setText(cursor.getString( columnIndex: 3).toString());
39              text5.setText(cursor.getString( columnIndex: 4).toString());
40          }
41          ton1 = (Button) findViewById(R.id.button1);
42          ton2 = (Button) findViewById(R.id.button2);
43
44
45      ton1.setOnClickListener(new View.OnClickListener() {
46          @Override
47          public void onClick(View arg0) {
48              SQLiteDatabase db = dbHelper.getWritableDatabase();
49              db.execSQL("update biodata set nama=" +
50                  text2.getText().toString() + ", tgl=" +
51                  text3.getText().toString() + ", jk=" +
52                  text4.getText().toString() + ", alamat=" +
53                  text5.getText().toString() + " where no=" +
54                  text1.getText().toString() + "");
55              Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_LONG).show();
56              MainActivity.ma.RefreshList();
57              finish();
58          }
59      });
60      ton2.setOnClickListener(new View.OnClickListener() {
61          @Override
62          public void onClick(View arg0) { finish(); }
63      });
64  }
65  }
66  }
67  }

```

- Tambahan : edit manifest/AndroidManifest.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3      package="com.example.tugas07_2">
4
5      <application
6          android:allowBackup="true"
7          android:icon="@mipmap/ic_launcher"
8          android:label="Tugas07_2"
9          android:roundIcon="@mipmap/ic_launcher_round"
10         android:supportRtl="true"
11         android:theme="@style/Theme.Tugas07_2">
12         <activity android:name=".UpdateBiodata" android:label="Form Biodata Baru"></activity>
13         <activity android:name=".LihatBiodata" android:label="Lihat Biodata"></activity>
14         <activity android:name=".BuatBiodata" android:label="Update Biodata"></activity>
15         <activity android:name=".MainActivity">
16             <intent-filter>
17                 <action android:name="android.intent.action.MAIN" />
18
19                 <category android:name="android.intent.category.LAUNCHER" />
20             </intent-filter>
21         </activity>
22     </application>
23
24 </manifest>

```

- Edit res/value/color.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <color name="purple_200">#FFBB86FC</color>
4      <color name="purple_500">#FF6200EE</color>
5      <color name="purple_700">#FF3700B3</color>
6      <color name="teal_200">#FF03DAC5</color>
7      <color name="teal_700">#FF018786</color>
8      <color name="black">#FF000000</color>
9      <color name="white">#FFFFFFFF</color>
10     <color name="colorPrimary">#3F51B5</color>
11     <color name="colorPrimaryDark">#303F9F</color>
12     <color name="colorAccent">#000</color>
13 </resources>

```

- Tambahkan edit res/values/styles.xml

```

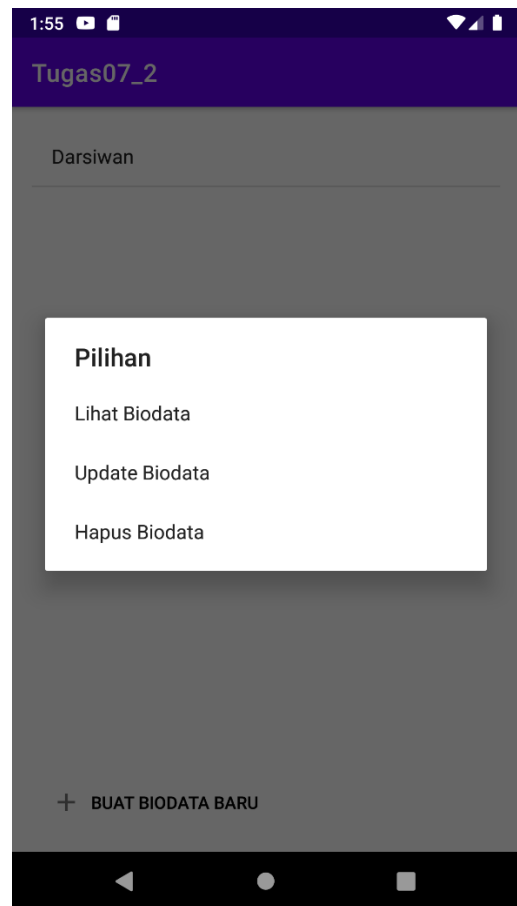
1  <?xml version="1.0" encoding="utf-8"?>
2  <resources>
3      <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
4          <item name="colorPrimary">@color/colorPrimary</item>
5          <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
6          <item name="colorAccent">@color/colorAccent</item>
7      </style>
8  </resources>

```

- Hasil tampilan aplikasinya akan menjadi seperti gambar berikut



Hasil Menu Utama



Hasil untuk pilihan

1:57

Update Biodata

Nomor

Nama

Tanggal Lahir

Jenis Kelamin

L atau P

Alamat

✓ SIMPAN

< KEMBALI

2:00

Lihat Biodata

Nomor

1

Nama

Darsiwan

Tanggal Lahir

1996-07-12

Jenis Kelamin

Laki-laki

Alamat

Indramayu

< KEMBALI

Hasil Buat Biodata

1:57

Update Biodata

Nomor

Nama

Tanggal Lahir

Jenis Kelamin

L atau P

Alamat

✓ SIMPAN

< KEMBALI

Hasil Lihat Biodata

Hasil Buat Biodata