# LAMPIRAN

## SOURCE ACTIVITY

## Source Data Helper

```
package com.example.habib.qrcodelibrary;
import …

//untuk proses data base
public class DataHelper extends SQLiteOpenHelper{
    // deklarasi db
    private static final String DATABASE_NAME = "qrcode.db";
    private static final int DATABASE_VERSION = 1;
    //konstruktor harus sama dengan nama class
    public DataHelper(Context context){
        //panggil db name dan db version konsep ooi
        super(context, DATABASE_NAME,null, DATABASE_VERSION);
        }
        //konsep polimertism kasih ovride
    @Override
    public void onCreate(SQLiteDatabase db){
        //menyimpn atribute pada syntax
        String sql = "create table daftarbuku (noid integer primary key autoincrement not null, barcode text null, title text
null, authors text null, publisher text null, address text null, category text null, price text null, image BLOB NULL)";
        Log.d("DATA", "onCreate:" +sql);
        db.execSQL(sql);
        String sql1 = "create table kategori (noid integer primary key, Jkategori text)";
        db.execSQL(sql1);
        String InsertPlh = "INSERT INTO kategori (Jkategori) VALUES ('Pilih Kategori')";
        db.execSQL(InsertPlh);
        String InsertBb = "INSERT INTO kategori (Jkategori) VALUES ('BOARD BOOK')";
        db.execSQL(InsertBb);
        String InsertHc = "INSERT INTO kategori (Jkategori) VALUES ('HARD COVER')";
        db.execSQL(InsertHc);
        String InsertLtfb= "INSERT INTO kategori (Jkategori) VALUES ('LIFT THE FLAP BOOK')";
        db.execSQL(InsertLtfb);
        String InsertPb = "INSERT INTO kategori (Jkategori) VALUES('PAPER BOOK')";
        db.execSQL(InsertPb);
    }
    //agar tidak eror kasih oncreate
    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion){
```

```
        db.execSQL("DROP TABLE IF EXISTS daftarbuku");
        db.execSQL("DROP TABLE IF EXISTS kategori");
        onCreate(db);
    }
    public Cursor getData(String sql){
        SQLiteDatabase database = getReadableDatabase();
        return database.rawQuery(sql, null);
    }
    public void insertData(String barcode, String judul, String penulis, String penerbit, String belidi, String kategori, String
harga, byte[] image){
        // Open the database for writing
        SQLiteDatabase db = this.getWritableDatabase();
// Start the transaction.
        db.beginTransaction();
        ContentValues values;
        try
        {
            values = new ContentValues();
            values.put("barcode", barcode);
            values.put("title", judul);
            values.put("authors", penulis);
            values.put("publisher", penerbit);
            values.put("address", belidi);
            values.put("category", kategori);
            values.put("price", harga);
            values.put("image", image);
            // Insert Row
            long i = db.insert("daftarbuku", null, values);
            Log.i("Insert", i + "");
            // Insert into database successfully.
            db.setTransactionSuccessful();
        }
        catch (SQLiteException e)
        {
            e.printStackTrace();
        }
        finally
        {
            db.endTransaction();
            // End the transaction.
            db.close();
            // Close database
```

```
        }
    }

    // Tambah kategori
        public void insertKategori(String jkategori) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues values = new ContentValues();
        values.put("Jkategori", jkategori);
        // Input Data
        db.insert("kategori", null, values);
        db.close();
        // Tutup koneksi database
    }

    public void updateData(String noid, String barcode, String judul, String penulis, String penerbit, String belidi, String
kategori, String harga, byte[] image){
        // Open the database for writing
        SQLiteDatabase db = this.getWritableDatabase();
// Start the transaction.
        db.beginTransaction();
        ContentValues values;
        try
        {
            values = new ContentValues();
            values.put("barcode", barcode);
            values.put("title", judul);
            values.put("authors", penulis);
            values.put("publisher", penerbit);
            values.put("address", belidi);
            values.put("category", kategori);
            values.put("price", harga);
            values.put("image", image);
            // Insert Row
            long i = db.update("daftarbuku",values,"noid = ?",new String[]{noid});
            Log.i("Update", i + "");
            // Insert into database successfully.
            db.setTransactionSuccessful();
        }
        catch (SQLiteException e)
        {
            e.printStackTrace();
        }
        finally
```

```
        {
            db.endTransaction();
            // End the transaction.
            db.close();
            // Close database
        }
    }
    // Method ambil semua data siswa
    public List<String> prosesAmbilkategori(){
        List<String> listK= new ArrayList<String>();
        String selectQuery = "SELECT  * FROM kategori" ;
        SQLiteDatabase db = this.getReadableDatabase();
        Cursor cursor = db.rawQuery(selectQuery, null);
        // Perulangan sejumlah data yang ada dan tambahkan ke list.
        if (cursor.moveToFirst()) {
            do {
                listK.add(cursor.getString(1));
            } while (cursor.moveToNext());
        }
// closing connection
        cursor.close();
        db.close();
        // returning lables
        return listK;
    }
    public List<String> getCategory(String title){
        List<String> labels = new ArrayList<>();
        // Select All Query
        String selectQuery = "SELECT  * FROM daftarbuku where title = '" +title+"'";
        SQLiteDatabase db = this.getReadableDatabase();
        Cursor cursor = db.rawQuery(selectQuery, null);
        // looping through all rows and adding to list
        if (cursor.moveToFirst()) {
            do {
                labels.add(cursor.getString(6));
            } while (cursor.moveToNext());
        }
        // closing connection
        cursor.close();
        db.close();
        // returning lables
        return labels;
    }
```

```
}
```

## Source Main Activity

```
package com.example.habib.qrcodelibrary;

import …

public class MainActivity extends AppCompatActivity {
    String[] daftar;
    ListView ListView01;
    Menu menu;
    protected Cursor cursor;
    DataHelper dbcenter;
    public static MainActivity ma;
    Spinner resultKategori;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        ma = this;
        dbcenter = new DataHelper(this);
        RefreshList();
        FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View view) {
             Intent intent = new Intent(MainActivity.this, AddBarcodeActivity.class);
             startActivity(intent);
           }
        });
        resultKategori = (Spinner) findViewById(R.id.results_spinnerCM);
        loadSpinner();
        resultKategori.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener(){
          @Override
           public void onItemSelected(AdapterView<?> parent, View view, int position,long id) {
              tampilKategori();
           }
           @Override
           public void onNothingSelected(AdapterView<?> adapterView) {
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```
        }
    });

}
    public void RefreshList() {
    SQLiteDatabase db = dbcenter.getReadableDatabase();
    cursor = db.rawQuery("SELECT * FROM daftarbuku", null);
    daftar = new String[cursor.getCount()];
    cursor.moveToFirst();
    for (int cc = 0; cc < cursor.getCount(); cc++) {
        cursor.moveToPosition(cc);
        daftar[cc] = cursor.getString(2).toString();
    }
    ListView01 = (ListView) findViewById(R.id.listView1);
    ListView01.setAdapter(new ArrayAdapter(this, android.R.layout.simple_list_item_1, daftar));
    ListView01.setSelected(true);
    ListView01.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        public void onItemClick(AdapterView arg0, View arg1, int arg2, long arg3) {
            final String selection = daftar[arg2]; //.getItemAtPosition(arg2).toString();
            final CharSequence[] dialogitem = {"Lihat Details", "Update Buku", "Hapus Buku"};
            AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
            builder.setTitle("Pilihan");
            builder.setItems(dialogitem, new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int item) {
                    switch (item) {
                        case 0:
                            Intent i = new Intent(getApplicationContext(), ReadBarcodeActivity.class);
                            i.putExtra("title", selection);
                            startActivity(i);
                            break;
                        case 1:
                            Intent in = new Intent(getApplicationContext(), UpdateBarcodeActivity.class);
                            in.putExtra("title", selection);
                            startActivity(in);
                            break;
                        case 2:
                            SQLiteDatabase db = dbcenter.getWritableDatabase();
                            db.execSQL("delete from daftarbuku where title = '" + selection + "'");
                            RefreshList();
                            break;
                    }
                }
            });
```

```
            builder.create().show();
          }
        });
        ((ArrayAdapter) ListView01.getAdapter()).notifyDataSetInvalidated();
    }
    public void tampilKategori(){

          SQLiteDatabase db = dbcenter.getReadableDatabase();
          cursor = db.rawQuery("SELECT * FROM daftarbuku where category = '"+ resultKategori.getSelectedItem() +"'",
null);
          daftar = new String[cursor.getCount()];
          cursor.moveToFirst();

          for (int cc = 0; cc < cursor.getCount(); cc++) {
            cursor.moveToPosition(cc);
            daftar[cc] = cursor.getString(2).toString();
          }
          ListView01 = (ListView) findViewById(R.id.listView1);
          ListView01.setAdapter(new ArrayAdapter(this, android.R.layout.simple_list_item_1, daftar));
          ListView01.setSelected(true);
          ListView01.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            public void onItemClick(AdapterView arg0, View arg1, int arg2, long arg3) {
              final String selection = daftar[arg2]; //.getItemAtPosition(arg2).toString();
              final CharSequence[] dialogitem = {"Lihat Details", "Update Buku", "Hapus Buku"};
              AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
              builder.setTitle("Pilihan");
              builder.setItems(dialogitem, new DialogInterface.OnClickListener() {
                public void onClick(DialogInterface dialog, int item) {
                  switch (item) {
                    case 0:
                      Intent i = new Intent(getApplicationContext(), ReadBarcodeActivity.class);
                      i.putExtra("title", selection);
                      startActivity(i);
                      break;
                    case 1:
                      Intent in = new Intent(getApplicationContext(), UpdateBarcodeActivity.class);
                      in.putExtra("title", selection);
                      startActivity(in);
                      break;
                    case 2:
                      SQLiteDatabase db = dbcenter.getWritableDatabase();
                      db.execSQL("delete from daftarbuku where title = '" + selection + "'");
                      RefreshList();
```

```
                    break;
                }
            }
        });
        builder.create().show();
    }
});
((ArrayAdapter) ListView01.getAdapter()).notifyDataSetInvalidated();
}
public void loadSpinner() {
    // database handler
    //DataHelper db = new DataHelper(getApplicationContext());
    // Spinner Drop down elements
    List<String> lables = dbcenter.prosesAmbilkategori();
    // Creating adapter for spinner
    ArrayAdapter<String> dataAdapter = new ArrayAdapter<String>(this,
        android.R.layout.simple_spinner_item, lables);
    // Drop down layout style - list view with radio button
    dataAdapter
        .setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
    // attaching data adapter to spinner
    resultKategori.setAdapter(dataAdapter);
}
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    //noinspection SimplifiableIfStatement
    if (id == R.id.action_settings) {
    //Kode disini akan di eksekusi saat tombol about di klik
        RefreshList();
        Toast.makeText(this, "Developer By: Habib Maulana", Toast.LENGTH_SHORT).show();
        return true;
    }
    if (id == R.id.advice_menu) {
        //Kode disini akan di eksekusi saat tombol about di klik
        Intent pindahmk = new Intent(MainActivity.this, MenuKActivity.class);
        startActivity(pindahmk);
        return true;
    }
```

```
        return super.onOptionsItemSelected(item);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }
}
```