

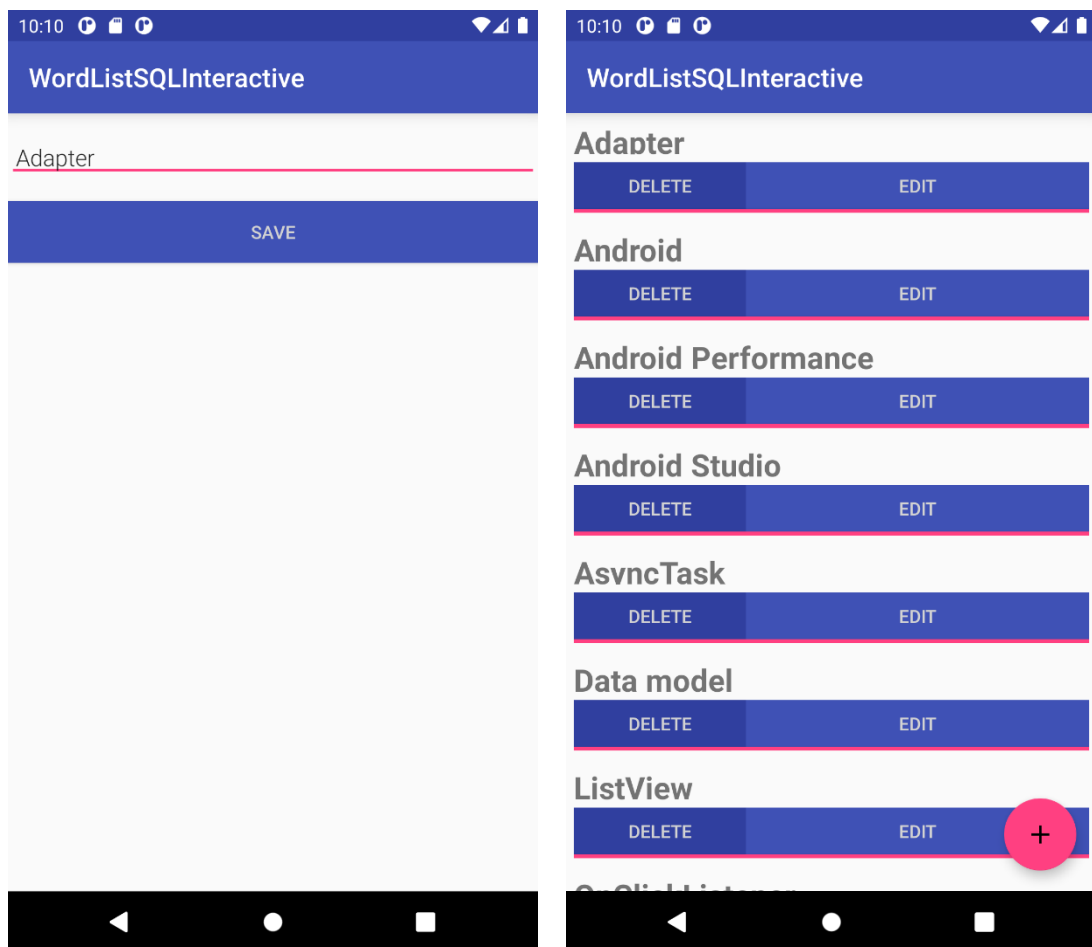
Matkul : Pemrograman Perangkat Bergerak - TI – S1

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Pertemuan : 8

Word List SQL finished



String.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">WordListSQLInteractive</string>
    <string name="hint_word">Word...</string>
    <string name="hint_definition">Definition...</string>
    <string name="button_save">Save</string>
    <string name="button_new">New</string>
    <string name="button_edit">Edit</string>
    <string name="button_delete">Delete</string>
</resources>
```

```
    <string name="empty_not_saved">Word not saved because it is empty.</string>
</resources>
```

Layout

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8" ?>

<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <android.support.v7.widget.RecyclerView
        android:id="@+id/recyclerview"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
    </android.support.v7.widget.RecyclerView>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_margin="16dp"
        android:clickable="true"
        android:src="@drawable/ic_add_24dp" />

</android.support.design.widget.CoordinatorLayout>
```

Activity_edit_word.xml

```
<?xml version="1.0" encoding="utf-8" ?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:id="@+id/edit_word"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-light"
        android:hint="@string/hint_word"
        android:inputType="textAutoComplete"
        android:padding="@dimen/small_padding"
        android:layout_marginBottom="@dimen/big_padding"
        android:layout_marginTop="@dimen/big_padding"
        android:textSize="18sp" />

    <Button
        android:id="@+id/button_save"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/colorPrimary"
        android:onClick="returnReply"
        android:text="@string/button_save"
        android:textColor="@color/buttonLabel" />
```

```
</LinearLayout>
```

Wordlist_item

```
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="6dp">

    <TextView
        android:id="@+id/word"
        android:layout_width="match_parent"
        style="@style/word_title" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <Button
            android:id="@+id/delete_button"
            android:layout_width="match_parent"
            android:layout_height="@dimen/button_height"
            android:layout_weight="2"
            android:background="@color/colorPrimaryDark"
            android:text="@string/button_delete"
            android:textColor="@color/buttonLabel"/>

        <Button
            android:id="@+id/edit_button"
            android:layout_width="match_parent"
            android:layout_height="@dimen/button_height"
            android:layout_weight="1"
            android:background="@color/colorPrimary"
            android:text="@string/button_edit"
            android:textColor="@color/buttonLabel"/>

    </LinearLayout>

    <Button
        android:layout_width="match_parent"
        android:layout_height="@dimen/divider_height"
        android:background="@color/colorAccent" />

</LinearLayout>
```

Java

Mainactivity.java

```
package com.android.example.wordlistsql;

import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.LinearLayoutManager;
```

```

import android.support.v7.widget.RecyclerView;
import android.text.TextUtils;
import android.view.View;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private static final String TAG = MainActivity.class.getSimpleName();

    public static final int WORD_EDIT = 1;
    public static final int WORD_ADD = -1;

    private WordListOpenHelper mDB;
    private RecyclerView mRecyclerView;
    private WordListAdapter mAdapter;
    private int mLastPosition;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        mDB = new WordListOpenHelper(this);

        // Create recycler view.
        mRecyclerView = (RecyclerView) findViewById(R.id.recyclerview);
        // Create an mAdapter and supply the data to be displayed.
        mAdapter = new WordListAdapter(this, /* mDB.getAllEntries(), */ mDB);
        // Connect the mAdapter with the recycler view.
        mRecyclerView.setAdapter(mAdapter);
        // Give the recycler view a default layout manager.
        mRecyclerView.setLayoutManager(new LinearLayoutManager(this));

        // Add a floating action click handler for creating new entries.
        FloatingActionButton fab = (FloatingActionButton)
findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                // Starts empty edit activity.
                Intent intent = new Intent(getBaseContext(),
EditWordActivity.class);
                startActivityForResult(intent, WORD_EDIT);
            }
        });

    }

    public void onActivityResult(int requestCode, int resultCode, Intent data)
    {
        super.onActivityResult(requestCode, resultCode, data);

        if (requestCode == WORD_EDIT) {
            if (resultCode == RESULT_OK) {
                String word =
data.getStringExtra(EditWordActivity.EXTRA_REPLY);

                // Update the database.
                if (!TextUtils.isEmpty(word)) {
                    int id = data.getIntExtra(WordListAdapter.EXTRA_ID, -99);

                    if (id == WORD_ADD) {
                        mDB.insert(word);
                    } else if (id >= 0) {

```

```

        mDB.update(id, word);
    }
    // Update the UI.
    mAdapter.notifyDataSetChanged();
} else {
    Toast.makeText(
        getApplicationContext(),
        R.string.empty_not_saved,
        Toast.LENGTH_LONG).show();
}
}
}
}
}
}

```

EditWordActivity.java

```

package com.android.example.wordlistsql;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;

public class EditWordActivity extends AppCompatActivity {

    private static final String TAG = EditWordActivity.class.getSimpleName();

    private static final int NO_ID = -99;
    private static final String NO_WORD = "";

    private EditText mEditWordView;

    // Unique tag for the intent reply.
    public static final String EXTRA_REPLY =
"com.example.android.wordlistsql.REPLY";

    int mId = MainActivity.WORD_ADD;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_edit_word);

        mEditWordView = (EditText) findViewById(R.id.edit_word);

        // Get data sent from calling activity.
        Bundle extras = getIntent().getExtras();

        // If we are passed content, fill it in for the user to edit.
        if (extras != null) {
            int id = extras.getInt(WordListAdapter.EXTRA_ID, NO_ID);
            String word = extras.getString(WordListAdapter.EXTRA_WORD,
NO_WORD);
            if ((id != NO_ID) && (word != NO_WORD)) {
                mId = id;
                mEditWordView.setText(word);
            }
        } // Otherwise, start with empty fields.

        public void returnReply(View view) {

```

```

        String word = ((EditText)
findViewById(R.id.edit_word)).getText().toString();

        Intent replyIntent = new Intent();
        replyIntent.putExtra(EXTRA_REPLY, word);
        replyIntent.putExtra(WordListAdapter.EXTRA_ID, mId);
        setResult(RESULT_OK, replyIntent);
        finish();
    }
}

```

WordItem.java

```
package com.android.example.wordlistsql;
```

```
public class WordItem {

    private int mId;
    private String mWord;

    public WordItem() {}

    public int getId() {
        return this.mId;
    }

    public String getWord() {
        return this.mWord;
    }

    public void setId(int id) {
        this.mId = id;
    }

    public void setWord(String word) {
        this.mWord = word;
    }
}

```

WordListAdapter.java

```
package com.android.example.wordlistsql;
```

```
import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.support.v7.widget.RecyclerView;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;

```

```
public class WordListAdapter extends
RecyclerView.Adapter<WordListAdapter.WordViewHolder> {

    class WordViewHolder extends RecyclerView.ViewHolder {
        public final TextView wordItemView;
        Button delete_button;
        Button edit_button;
    }
}

```

```

    public ViewHolder(View itemView) {
        super(itemView);
        wordItemView = (TextView) itemView.findViewById(R.id.word);
        delete_button = (Button) itemView.findViewById(R.id.delete_button);
        edit_button = (Button) itemView.findViewById(R.id.edit_button);
    }
}

private static final String TAG = WordListAdapter.class.getSimpleName();

public static final String EXTRA_ID = "ID";
public static final String EXTRA_WORD = "WORD";
public static final String EXTRA_POSITION = "POSITION";

private final LayoutInflater mInflater;
WordListOpenHelper mDB;
Context mContext;

public WordListAdapter(Context context, WordListOpenHelper db) {
    mInflater = LayoutInflater.from(context);
    mContext = context;
    mDB = db;
}

@Override
public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
    View itemView = mInflater.inflate(R.layout.wordlist_item, parent,
false);
    return new ViewHolder(itemView);
}

@Override
public void onBindViewHolder(ViewHolder holder, int position) {
    WordItem current = mDB.query(position);
    holder.wordItemView.setText(current.getWord());
    // Keep a reference to the view holder for the click listener
    final ViewHolder h = holder; // needs to be final for use in
callback
    // Attach a click listener to the DELETE button.
    holder.delete_button.setOnClickListener(new MyButtonOnClickListener(
        current.getId(), null) {

        @Override
        public void onClick(View v) {
            // You have to get the position like this, you can't hold a
reference
            Log.d (TAG + "onClick", "VHPos " + h.getAdapterPosition() + "
ID " + id);

            int deleted = mDB.delete(id);
            if (deleted >= 0)
                notifyItemRemoved(h.getAdapterPosition());
        }
    });

    // Attach a click listener to the EDIT button.
    holder.edit_button.setOnClickListener(new MyButtonOnClickListener(
        current.getId(), current.getWord()) {

        @Override
        public void onClick(View v) {
            Intent intent = new Intent(mContext, EditWordActivity.class);

```

```

        intent.putExtra(EXTRA_ID, id);
        intent.putExtra(EXTRA_POSITION, h.getAdapterPosition());
        intent.putExtra(EXTRA_WORD, word);

        // Start an empty edit activity.
        ((Activity) mContext).startActivityForResult(intent,
MainActivity.WORD_EDIT);
    }
    });
}

@Override
public int getItemCount() {
    return (int) mDB.count();
}
}

```

WordListOpenHelper.java

```

package com.android.example.wordlistsql;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.DatabaseUtils;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

public class WordListOpenHelper extends SQLiteOpenHelper {

    private static final String TAG = WordListOpenHelper.class.getSimpleName();

    /

    private static final int DATABASE_VERSION = 1;
    private static final String WORD_LIST_TABLE = "word_entries";
    private static final String DATABASE_NAME = "wordlist";

    // Column names...
    public static final String KEY_ID = "_id";
    public static final String KEY_WORD = "word";

    // ... and a string array of columns.
    private static final String[] COLUMNS =
        {KEY_ID, KEY_WORD};

    // Build the SQL query that creates the table.
    private static final String WORD_LIST_TABLE_CREATE =
        "CREATE TABLE " + WORD_LIST_TABLE + " (" +
        KEY_ID + " INTEGER PRIMARY KEY, " + // will auto-increment
if no value passed
        KEY_WORD + " TEXT );";

    private SQLiteDatabase mWritableDB;
    private SQLiteDatabase mReadableDB;

    public WordListOpenHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
        Log.d(TAG, "Construct WordListOpenHelper");
    }

    @Override

```



```

public void onCreate(SQLiteDatabase db) {
    db.execSQL(WORD_LIST_TABLE_CREATE);
    fillDatabaseWithData(db);
}

public void fillDatabaseWithData(SQLiteDatabase db) {
    String[] words = {"Android", "Adapter", "ListView", "AsyncTask",
"Android Studio",
    "SQLiteDatabase", "SQLiteOpenHelper", "Data model", "ViewHolder",
    "Android Performance", "OnClickListener"};

    // Create a container for the data.
    ContentValues values = new ContentValues();

    for (int i=0; i < words.length;i++) {
        // Put column/value pairs into the container. put() overwrites
existing values.
        values.put(KEY_WORD, words[i]);
        db.insert(WORD_LIST_TABLE, null, values);
    }
}

public WordItem query(int position) {
    String query = "SELECT * FROM " + WORD_LIST_TABLE +
        " ORDER BY " + KEY_WORD + " ASC " +
        "LIMIT " + position + ",1";

    Cursor cursor = null;
    WordItem entry = new WordItem();

    try {
        if (mReadableDB == null) {mReadableDB = getReadableDatabase();}
        cursor = mReadableDB.rawQuery(query, null);
        cursor.moveToFirst();
        entry.setId(cursor.getInt(cursor.getColumnIndex(KEY_ID)));
        entry.setWord(cursor.getString(cursor.getColumnIndex(KEY_WORD)));
    } catch (Exception e) {
        Log.d(TAG, "QUERY EXCEPTION! " + e.getMessage());
    } finally {
        // Must close cursor and db now that we are done with it.
        cursor.close();
        return entry;
    }
}

public long count() {
    if (mReadableDB == null) {mReadableDB = getReadableDatabase();}
    return DatabaseUtils.queryNumEntries(mReadableDB, WORD_LIST_TABLE);
}

public long insert(String word) {
    long newId = 0;
    ContentValues values = new ContentValues();
    values.put(KEY_WORD, word);
    try {
        if (mWritableDatabase == null) {mWritableDatabase = getWritableDatabase();}
        newId = mWritableDatabase.insert(WORD_LIST_TABLE, null, values);
    } catch (Exception e) {
        Log.d(TAG, "INSERT EXCEPTION! " + e.getMessage());
    }
}

```

```

        return newId;
    }

    public int update(int id, String word) {
        int mNumberOfRowsUpdated = -1;
        try {
            if (mWritableDB == null) {mWritableDB = getWritableDatabase();}
            ContentValues values = new ContentValues();
            values.put(KEY_WORD, word);

            mNumberOfRowsUpdated = mWritableDB.update(WORD_LIST_TABLE, //table
to change
                values, // new values to insert
                KEY_ID + " = ?", // selection criteria for row (in this
case, the _id column)
                new String[]{String.valueOf(id)}); //selection args; the
actual value of the id

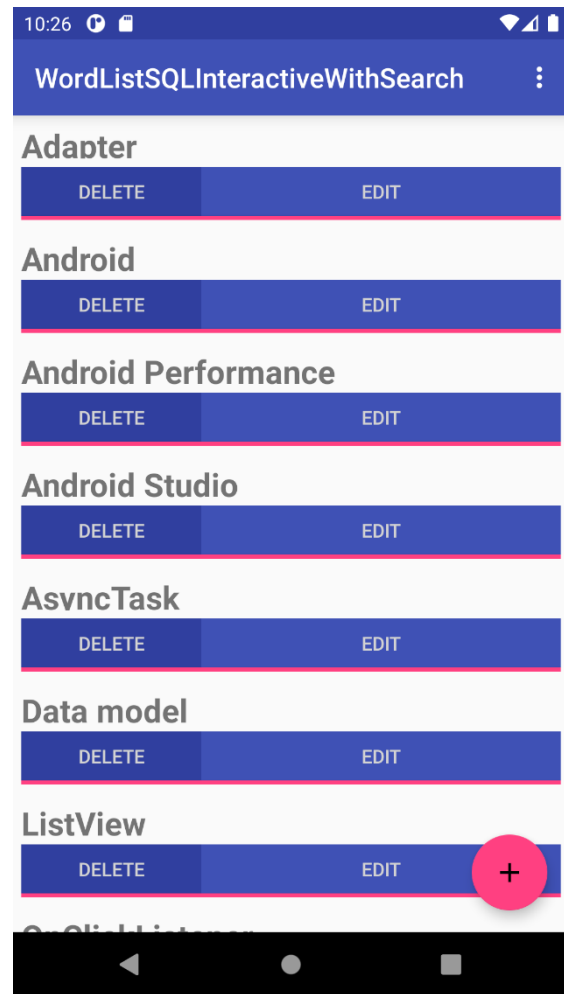
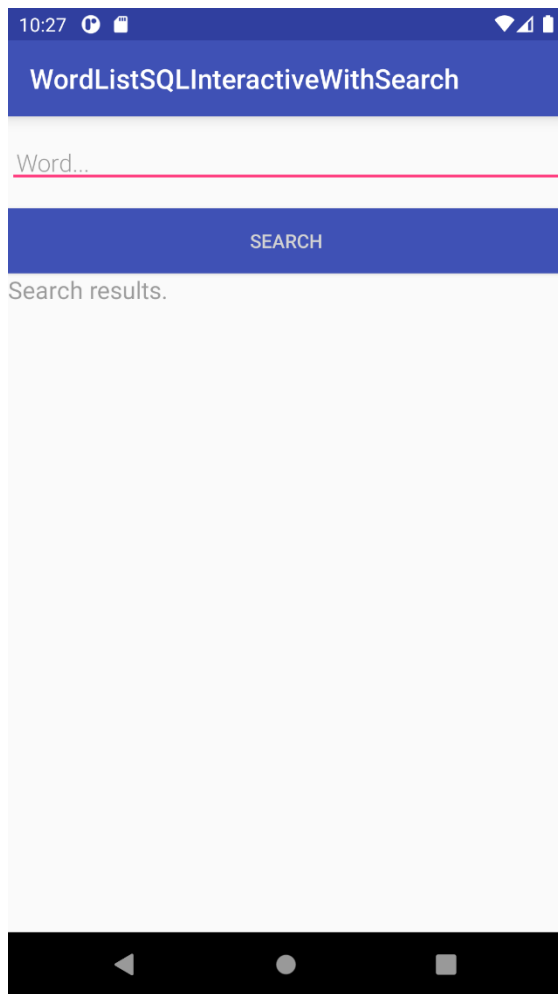
        } catch (Exception e) {
            Log.d (TAG, "UPDATE EXCEPTION! " + e.getMessage());
        }
        return mNumberOfRowsUpdated;
    }

    public int delete(int id) {
        int deleted = 0;
        try {
            if (mWritableDB == null) {mWritableDB = getWritableDatabase();}
            deleted = mWritableDB.delete(WORD_LIST_TABLE, //table name
                KEY_ID + " = ? ", new String[]{String.valueOf(id)});
        } catch (Exception e) {
            Log.d (TAG, "DELETE EXCEPTION! " + e.getMessage());
        }
        return deleted;
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        Log.w(WordListOpenHelper.class.getName(),
            "Upgrading database from version " + oldVersion + " to "
            + newVersion + ", which will destroy all old data");
        db.execSQL("DROP TABLE IF EXISTS " + WORD_LIST_TABLE);
        onCreate(db);
    }
}

```

Word List SQL Searchable



String.xml

```
<?xml version="1.0" encoding="utf-8"?>

<resources>
    <string name="app_name">WordListSQLInteractiveWithSearch</string>
    <string name="hint_word">Word...</string>
    <string name="hint_definition">Definition...</string>
    <string name="button_save">Save</string>
    <string name="button_new">New</string>
    <string name="button_edit">Edit</string>
    <string name="button_delete">Delete</string>
    <string name="button_search">Search</string>
    <string name="search_results">Search results.</string>
    <string name="menu_search">Search...</string>
    <string name="empty_word_not_saved">Word not saved because it is
empty.</string>
    <string name="no_result">No result.</string>
</resources>
```

Layout

Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>

<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">

    <android.support.v7.widget.RecyclerView
        android:id="@+id/recyclerview"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
    </android.support.v7.widget.RecyclerView>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_margin="16dp"
        android:clickable="true"
        android:src="@drawable/ic_add_24dp" />

</android.support.design.widget.CoordinatorLayout>

```

Activity_edit_word.xml

```

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:id="@+id/edit_word"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-light"
        android:hint="@string/hint_word"
        android:inputType="textAutoComplete"
        android:padding="@dimen/small_padding"
        android:layout_marginBottom="@dimen/big_padding"
        android:layout_marginTop="@dimen/big_padding"
        android:textSize="18sp" />

    <Button
        android:id="@+id/button_save"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/colorPrimary"
        android:onClick="returnReply"
        android:text="@string/button_save"
        android:textColor="@color/buttonLabel" />

</LinearLayout>

```

Activity_search.xml

```

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"

```

```

        android:layout_height="match_parent">

        <EditText
            android:id="@+id/search_word"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif-light"
            android:hint="@string/hint_word"
            android:inputType="textAutoComplete"
            android:padding="@dimen/small_padding"
            android:layout_marginBottom="@dimen/big_padding"
            android:layout_marginTop="@dimen/big_padding"
            android:textSize="18sp" />

        <Button
            android:id="@+id/button_search"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:background="@color/colorPrimary"
            android:onClick="showResult"
            android:text="@string/button_search"
            android:textColor="@color/buttonLabel" />

        <TextView
            android:id="@+id/search_result"
            android:layout_width="match_parent"
            android:layout_height="300dp"
            android:textSize="18sp"
            android:hint="@string/search_results"/>

    </LinearLayout>

```

Wordlist_item.xml

```

<?xml version="1.0" encoding="utf-8" ?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="6dp">

    <TextView
        android:id="@+id/word"
        android:layout_width="match_parent"
        style="@style/word_title" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <Button
            android:id="@+id/delete_button"
            android:layout_width="match_parent"
            android:layout_height="@dimen/button_height"
            android:layout_weight="2"
            android:background="@color/colorPrimaryDark"
            android:text="@string/button_delete"
            android:textColor="@color/buttonLabel"/>

        <Button
            android:id="@+id/edit_button"

```

```

        android:layout_width="match_parent"
        android:layout_height="@dimen/button_height"
        android:layout_weight="1"
        android:background="@color/colorPrimary"
        android:text="@string/button_edit"
        android:textColor="@color/buttonLabel"/>

</LinearLayout>

<Button
    android:layout_width="match_parent"
    android:layout_height="@dimen/divider_height"
    android:background="@color/colorAccent" />

</LinearLayout>

```

Mainactivity

```

package com.android.example.wordlistsqlsearchable;

import android.content.Intent;
import android.os.Bundle;
import android.support.design.widget.FloatingActionButton;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.text.TextUtils;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private static final String TAG = MainActivity.class.getSimpleName();

    public static final int WORD_EDIT = 1;
    public static final int WORD_ADD = -1;

    private WordListOpenHelper mDB;
    private RecyclerView mRecyclerView;
    private WordListAdapter mAdapter;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        mDB = new WordListOpenHelper(this);

        // Create recycler view.
        mRecyclerView = (RecyclerView) findViewById(R.id.recyclerview);
        // Create an mAdapter and supply the data to be displayed.
        mAdapter = new WordListAdapter(this, /* mDB.getAllEntries(), */ mDB);
        // Connect the mAdapter with the recycler view.
        mRecyclerView.setAdapter(mAdapter);
        // Give the recycler view a default layout manager.
        mRecyclerView.setLayoutManager(new LinearLayoutManager(this));

        // Add a floating action click handler for creating new entries.
        FloatingActionButton fab = (FloatingActionButton)
        findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {

```

```

        @Override
        public void onClick(View view) {
            // Starts empty edit activity.
            Intent intent = new Intent(getBaseContext(),
EditWordActivity.class);
            startActivityForResult(intent, WORD_EDIT);
        }
    });
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.menu_main, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
        case R.id.action_search:
            // Starts search activity.
            Intent intent = new Intent(getBaseContext(),
com.android.example.wordlistsqsearchable.SearchActivity.class);
            startActivity(intent);
            return true;
    }
    return super.onOptionsItemSelected(item);
}

public void onActivityResult(int requestCode, int resultCode, Intent data)
{
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == WORD_EDIT) {
        if (resultCode == RESULT_OK) {
            String word =
data.getStringExtra(EditWordActivity.EXTRA_REPLY);

            // Update the database.
            if (!TextUtils.isEmpty(word)) {
                int id = data.getIntExtra(WordListAdapter.EXTRA_ID, -99);

                if (id == WORD_ADD) {
                    mDB.insert(word);
                } else if (id >= 0) {
                    mDB.update(id, word);
                }
                // Update the UI.
                mAdapter.notifyDataSetChanged();
            } else {
                Toast.makeText(
                    getApplicationContext(),
                    R.string.empty_word_not_saved,
                    Toast.LENGTH_LONG).show();
            }
        }
    }
}
}

```

EditWordActivity.java

```

package com.android.example.wordlistsqlsearchable;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;

public class EditWordActivity extends AppCompatActivity {

    private static final String TAG = EditWordActivity.class.getSimpleName();

    private static final int NO_ID = -99;
    private static final String NO_WORD = "";

    private EditText mEditWordView;

    // Unique tag for the intent reply.
    public static final String EXTRA_REPLY =
"com.example.android.wordlistsql.REPLY";

    int mId = MainActivity.WORD_ADD;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_edit_word);

        mEditWordView = (EditText) findViewById(R.id.edit_word);

        // Get data sent from calling activity.
        Bundle extras = getIntent().getExtras();

        // If we are passed content, fill it in for the user to edit.
        if (extras != null) {
            int id = extras.getInt(WordListAdapter.EXTRA_ID, NO_ID);
            String word = extras.getString(WordListAdapter.EXTRA_WORD,
NO_WORD);
            if (id != NO_ID && word != NO_WORD) {
                mId = id;
                mEditWordView.setText(word);
            }
        } // Otherwise, start with empty fields.

        public void returnReply(View view) {
            String word = ((EditText)
findViewById(R.id.edit_word)).getText().toString();

            Intent replyIntent = new Intent();
            replyIntent.putExtra(EXTRA_REPLY, word);
            replyIntent.putExtra(WordListAdapter.EXTRA_ID, mId);
            setResult(RESULT_OK, replyIntent);
            finish();
        }
    }
}

```

MyButtonOnClickListener.java

```

package com.android.example.wordlistsqlsearchable;

import android.view.View;

```



```

public class MyButtonOnClickListener implements View.OnClickListener {
    private static final String TAG =
View.OnClickListener.class.getSimpleName();

    int id;
    String word;

    public MyButtonOnClickListener(int id, String word) {
        this.id = id;
        this.word = word;
    }

    public void onClick(View v) {
        // Implemented in WordListAdapter
    }
}

```

SearchActiviy.java

```

package com.android.example.wordlistsqlsearchable;

import android.database.Cursor;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;

public class SearchActivity extends AppCompatActivity {

    private static final String TAG = EditWordActivity.class.getSimpleName();

    private WordListOpenHelper mDB;

    private EditText mEditWordView;
    private TextView mTextView;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_search);

        mDB = new WordListOpenHelper(this);

        mEditWordView = ((EditText) findViewById(R.id.search_word));
        mTextView = ((TextView) findViewById(R.id.search_result));
    }

    // Click handler for Search button.
    public void showResult(View view) {
        String word = mEditWordView.getText().toString();
        mTextView.setText("Result for " + word + ":\n\n");

        // Search for the word in the database.
        Cursor cursor = mDB.search(word);
        // You must move the cursor to the first item.
        cursor.moveToFirst();
        // Only process a non-null cursor with rows.
        if (cursor != null & cursor.getCount() > 0) {
            int index;
            String result;

```

```

        // Iterate over the cursor, while there are entries.
        do {
            // Don't guess at the column index. Get the index for the named
column.
            index = cursor.getColumnIndex(WordListOpenHelper.KEY_WORD);
            // Get the value from the column for the current cursor.
            result = cursor.getString(index);
            // Add result to what's already in the text view.
            mTextView.append(result + "\n");
        } while (cursor.moveToNext());
        cursor.close();
    } else {
        mTextView.append(getString(R.string.no_result));
    }
}
}

```

WordItem.java

```

package com.android.example.wordlistsqlsearchable;

public class WordItem {

    private int mId;
    private String mWord;

    public WordItem() {}

    public int getId() {
        return this.mId;
    }

    public String getWord() {
        return this.mWord;
    }

    public void setId(int id) {
        this.mId = id;
    }

    public void setWord(String word) {
        this.mWord = word;
    }
}

```

WordListAdapter.java

```

package com.android.example.wordlistsqlsearchable;

import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;

public class WordListAdapter extends
RecyclerView.Adapter<WordListAdapter.WordViewHolder> {

```

```

/**
 * Custom view holder with a text view and two buttons.
 */
class WordViewHolder extends RecyclerView.ViewHolder {
    public final TextView wordItemView;
    Button delete_button;
    Button edit_button;

    public WordViewHolder(View itemView) {
        super(itemView);
        wordItemView = (TextView) itemView.findViewById(R.id.word);
        delete_button = (Button) itemView.findViewById(R.id.delete_button);
        edit_button = (Button) itemView.findViewById(R.id.edit_button);
    }
}

private static final String TAG = WordListAdapter.class.getSimpleName();

public static final String EXTRA_ID = "ID";
public static final String EXTRA_WORD = "WORD";
public static final String EXTRA_POSITION = "POSITION";

private final LayoutInflater mInflater;
WordListOpenHelper mDB;
Context mContext;

public WordListAdapter(Context context, WordListOpenHelper db) {
    mInflater = LayoutInflater.from(context);
    mContext = context;
    mDB = db;
}

@Override
public WordViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
    View itemView = mInflater.inflate(R.layout.wordlist_item, parent,
false);
    return new WordViewHolder(itemView);
}

@Override
public void onBindViewHolder(WordViewHolder holder, int position) {
    // Keep a reference to the view holder for the click listener
    final WordViewHolder h = holder; // needs to be final for use in
callback

    WordItem current = mDB.query(position);
    holder.wordItemView.setText(current.getWord());

    // Attach a click listener to the DELETE button.
    holder.delete_button.setOnClickListener(new MyButtonOnClickListener(
        current.getId(), null) {

        @Override
        public void onClick(View v ) {
            // Remove from the database.
            int deleted = mDB.delete(id);
            if (deleted >= 0) {
                // Redisplay the view.
                notifyItemRemoved(h.getAdapterPosition());
            }
        }
    });

    // Attach a click listener to the EDIT button.

```

```

holder.edit_button.setOnClickListener(new MyButtonOnClickListener(
    current.getId(), current.getWord()) {

    @Override
    public void onClick(View v) {
        Intent intent = new Intent(mContext, EditWordActivity.class);

        intent.putExtra(EXTRA_ID, id);
        intent.putExtra(EXTRA_POSITION, h.getAdapterPosition());
        intent.putExtra(EXTRA_WORD, word);

        // Start an empty edit activity.
        ((Activity) mContext).startActivityForResult(intent,
MainActivity.WORD_EDIT);
    }
});
}

@Override
public int getItemCount() {
    return (int) mDB.count();
}
}

```

WordListOpenHelper.java

```

package com.android.example.wordlistsqlsearchable;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.DatabaseUtils;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

public class WordListOpenHelper extends SQLiteOpenHelper {

    private static final String TAG = WordListOpenHelper.class.getSimpleName();

    // Version has to be 1 first time or app will crash.
    private static final int DATABASE_VERSION = 1;
    private static final String WORD_LIST_TABLE = "word_entries";
    private static final String DATABASE_NAME = "wordlist";

    // Column names...
    public static final String KEY_ID = "_id";
    public static final String KEY_WORD = "word";

    // ... and a string array of columns.
    private static final String[] COLUMNS =
        {KEY_ID, KEY_WORD};

    // Build the SQL query that creates the table.
    private static final String WORD_LIST_TABLE_CREATE =
        "CREATE TABLE " + WORD_LIST_TABLE + " (" +
            KEY_ID + " INTEGER PRIMARY KEY, " + // will auto-increment
if no value passed
            KEY_WORD + " TEXT );";

    private SQLiteDatabase mWritableDatabase;
    private SQLiteDatabase mReadableDB;

```

```

public WordListOpenHelper(Context context) {
    super(context, DATABASE_NAME, null, DATABASE_VERSION);
    Log.d(TAG, "Construct WordListOpenHelper");
}

@Override
public void onCreate(SQLiteDatabase db) {
    db.execSQL(WORD_LIST_TABLE_CREATE);
    fillDatabaseWithData(db);
}

public void fillDatabaseWithData(SQLiteDatabase db) {

    String[] words = {"Android", "Adapter", "ListView", "AsyncTask",
"Android Studio",
    "SQLiteDatabase", "SQLOpenHelper", "Data model", "ViewHolder",
    "Android Performance", "OnClickListener"};

    // Create a container for the data.
    ContentValues values = new ContentValues();

    for (int i=0; i < words.length; i++) {
        // Put column/value pairs for current row into the container.
        values.put(KEY_WORD, words[i]); // put() overrides existing values.
        // Insert the row.
        db.insert(WORD_LIST_TABLE, null, values);
    }
}

public Cursor search(String searchString) {
    String[] columns = new String[]{KEY_WORD};
    String where = KEY_WORD + " LIKE ?";
    searchString = "%" + searchString + "%";
    String[] whereArgs = new String[]{searchString};

    Cursor cursor = null;
    try {
        if (mReadableDB == null) {
            mReadableDB = getReadableDatabase();
        }
        cursor = mReadableDB.query(WORD_LIST_TABLE, columns, where,
whereArgs, null, null, null);
    } catch (Exception e) {
        Log.d(TAG, "SEARCH EXCEPTION! " + e); // Just log the exception
    }
    return cursor;
}

public WordItem query(int position) {
    String query = "SELECT * FROM " + WORD_LIST_TABLE +
        " ORDER BY " + KEY_WORD + " ASC " +
        "LIMIT " + position + ",1";

    Cursor cursor = null;
    WordItem entry = new WordItem();

    try {
        if (mReadableDB == null) {
            mReadableDB = getReadableDatabase();
        }
        cursor = mReadableDB.rawQuery(query, null);
        cursor.moveToFirst();
        entry.setId(cursor.getInt(cursor.getColumnIndex(KEY_ID)));
    }
}

```

```

        entry.setWord(cursor.getString(cursor.getColumnIndex(KEY_WORD)));
    } catch (Exception e) {
        Log.d(TAG, "QUERY EXCEPTION! " + e); // Just log the exception
    } finally {
        // Must close cursor and db now that we are done with it.
        cursor.close();
        return entry;
    }
}

public long count() {
    if (mReadableDB == null) {
        mReadableDB = getReadableDatabase();
    }
    return DatabaseUtils.queryNumEntries(mReadableDB, WORD_LIST_TABLE);
}

public long insert(String word) {
    long newId = 0;
    ContentValues values = new ContentValues();
    values.put(KEY_WORD, word);
    try {
        if (mWritableDatabase == null) {
            mWritableDatabase = getWritableDatabase();
        }
        newId = mWritableDatabase.insert(WORD_LIST_TABLE, null, values);
    } catch (Exception e) {
        Log.d(TAG, "INSERT EXCEPTION! " + e);
    }
    return newId;
}

public int update(int id, String word) {
    int mNumberOfRowsUpdated = -1;
    try {
        if (mWritableDatabase == null) {
            mWritableDatabase = getWritableDatabase();
        }
        ContentValues values = new ContentValues();
        values.put(KEY_WORD, word);

        mNumberOfRowsUpdated = mWritableDatabase.update(WORD_LIST_TABLE, //table
to change
        values, // new values to insert
        KEY_ID + " = ?", // selection criteria for row (in this
case, the _id column)
        new String[]{String.valueOf(id)}); //selection args; the
actual value of the id

    } catch (Exception e) {
        Log.d(TAG, "UPDATE EXCEPTION! " + e);
    }
    return mNumberOfRowsUpdated;
}

public int delete(int id) {
    int deleted = 0;
    try {
        if (mWritableDatabase == null) {
            mWritableDatabase = getWritableDatabase();
        }
        deleted = mWritableDatabase.delete(WORD_LIST_TABLE, //table name
        KEY_ID + " =?", new String[]{String.valueOf(id)});
    } catch (Exception e) {

```

```
        Log.d (TAG, "DELETE EXCEPTION! " + e);    }
    return deleted;
}

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    Log.w(WordListOpenHelper.class.getName(),
        "Upgrading database from version " + oldVersion + " to "
        + newVersion + ", which will destroy all old data");
    db.execSQL("DROP TABLE IF EXISTS " + WORD_LIST_TABLE);
    onCreate(db);
}
}
```

DataSiswa

001 - Ghiyatsi Miftahur Rahmat
002 - Annisa Fitriana
003 - Andina Nur Amalia
004 - Bayu Prasetya Adji

001 - Ghiyatsi Miftahur Rahmat
002 - Annisa Fitriana
003 - Andina Nur Amalia
004 - Bayu Prasetya Ardi

- Action
- Tambah
- Hapus
- Update

DataMahasiswa

NIS

Nama Lengkap

Tambah

Batal

DataMahasiswa

NIS

004

Nama Lengkap

Bayu Prasetya Adji

Update

Batal

String.xml

```
<resources>
    <string name="app_name">DataMahasiswa</string>
    <string name="batal">Batal</string>
    <string name="nama_lengkap">Nama Lengkap</string>
    <string name="nis">NIS</string>
    <string name="update">Update</string>
    <string name="tambah">Tambah</string>
</resources>
```

Layout

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginVertical="10dp"
    android:layout_marginHorizontal="10dp"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/simple_list_item_1"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>

</LinearLayout>
```

Activity_tambah.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_marginHorizontal="10dp"
    android:layout_marginVertical="10dp"
    tools:context=".Tambah">

    <TextView
        android:layout_width="match_parent"
```

```
    android:layout_height="wrap_content"
    android:text="@string/nis"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/inputnis"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/nama_lengkap"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/inputnama"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnTambah"
        android:text="@string/tambah"
        android:textAllCaps="false"
        android:layout_marginRight="10dp"
        android:textSize="16sp"/>
```

```
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnCancel"
        android:text="@string/batal"
        android:textAllCaps="false"
```

```
        android:textSize="16sp"/>

    </LinearLayout>

</LinearLayout>
```

Activity_update.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_marginHorizontal="10dp"
    android:layout_marginVertical="10dp"
    tools:context=".Update">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/nis"
        android:textColor="@color/black"
        android:textSize="18sp"
        android:textStyle="bold"/>

    <EditText
        android:id="@+id/updatenis"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:layout_marginBottom="15dp"
        android:enabled="false"/>

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/nama_lengkap"
        android:textColor="@color/black"
        android:textSize="18sp"
        android:textStyle="bold"/>

    <EditText
        android:id="@+id/updatenama"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16sp"
```

```

        android:layout_marginBottom="15dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnUpdate"
        android:text="@string/update"
        android:textAllCaps="false"
        android:layout_marginRight="10dp"
        android:textSize="16sp"/>

        <Button
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/btnCancel"
            android:text="@string/batal"
            android:textAllCaps="false"
            android:textSize="16sp"/>

    </LinearLayout>

</LinearLayout>

```

Java

DatabaseHendler.java

```

package com.example.datamahasiswa;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import java.util.ArrayList;
import java.util.List;

public class DatabaseHandler extends SQLiteOpenHelper {

    private static final int DATABASE_VERSION= 1;
    // NamaDatabase
    private static final String DATABASE_NAME= "Sekolah";
    // NamaTable

```

```

private static final String TABLE_SISWA= "Siswa";
// NamaKolomTable Siswa
private static final String KEY_NIS= "nis";
private static final String KEY_NAMA= "nama";

public DatabaseHandler(Context context) {
// TODOAuto-generated constructor stub
    super(context, DATABASE_NAME, null, DATABASE_VERSION);
}

// Create Table
@Override
public void onCreate(SQLiteDatabase db) {
// TODOAuto-generated method stub
    String query_table_siswa = "CREATE TABLE "+
        TABLE_SISWA+ "("
        + KEY_NIS+ " TEXT PRIMARY KEY,"+ KEY_NAMA+ " TEXT)";
    db.execSQL(query_table_siswa);
}

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
// TODOAuto-generated method stub
// Drop older table if existed
    db.execSQL("DROP TABLE IF EXISTS "+ TABLE_SISWA);
// Create tables again
    onCreate(db);
}

// add new siswa
public void addSiswa(Siswa siswa) {
    SQLiteDatabase db = this.getWritableDatabase();
    ContentValues values = new ContentValues();
    values.put(KEY_NIS, siswa.getNis());
    values.put(KEY_NAMA, siswa.getNama());
// Inserting Row
    db.insert(TABLE_SISWA, null, values);
    db.close();
}

// read siswa
public Siswa getSiswa(String nis) {
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cursor = db.query(TABLE_SISWA, new String[] {KEY_NIS,
KEY_NAMA}, KEY_NIS+ "=?", new String[] {nis}, null, null, null);
    if(cursor != null)

```

```

        cursor.moveToFirst();
        Siswa siswa = new Siswa(cursor.getString(0),
                                cursor.getString(1));
        return siswa;
    }

    //read all siswa
    public List<Siswa> getSemuaSiswa() {
        List<Siswa> siswaList = new ArrayList<Siswa>();
        String query_select_siswa = "SELECT * FROM "+ TABLE_SISWA;
        SQLiteDatabase db = this.getWritableDatabase();
        Cursor cursor = db.rawQuery(query_select_siswa,null);
        if(cursor.moveToFirst()) {
            do{
                Siswa siswa = new Siswa(cursor.getString(0),
                                        cursor.getString(1));
                siswaList.add(siswa);
            } while(cursor.moveToNext());
        }
        return siswaList;
    }

    //delete data siswa
    public void deleteSiswa(Siswa siswa) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_SISWA, KEY_NIS+ "='"+ siswa.getNis()+"'",null);
        db.close();
        System.out.println("Data terhapus "+siswa.getNis());
    }

    public void deleteRow(String xnis) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_SISWA, KEY_NIS+ "='"+ xnis+"'",null);
        db.close();
        System.out.println("Data terhapus "+xnis);
    }

    public void updateMethod(String nis, String nama){
        SQLiteDatabase db = this.getWritableDatabase();
        db.execSQL("update "+TABLE_SISWA+" set nama='"+nama+" ' where
nis='"+nis+"'");
        db.close();
        System.out.println("Data sudah di update "+nis);
    }
}

```

Mainactivity.java

```
package com.example.datamahasiswa;

import androidx.appcompat.app.AppCompatActivity;

import android.app.ListActivity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;

import java.util.List;

public class MainActivity extends ListActivity {
    String dataSiswa[] = null;
    String dS[] = null;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        // setContentView(R.layout.activity_main);
        // Tambah Siswa
        DatabaseHandler db = new DatabaseHandler(this);
        // Membaca Semua Siswa
        Log.d("Baca Siswa: ", "Membaca Semua Data Siswa..");
        List<Siswa> siswa = db.getSemuaSiswa();
        dataSiswa= new String[siswa.size()];
        dS= new String[siswa.size()];
        int i=0;
        for(Siswa s : siswa) {
            String log = "NIS: " + s.getNis() + ",Nama: " +
                s.getNama();
            Log.d("Name: ", log);
            dataSiswa[i] = s.getNis() + " - " + s.getNama();
            dS[i] = s.getNis();
            i++;
        }

        // check data
        if(i==0)
        {
            Log.d("Tambah Siswa: ", "Menambah Data Siswa..");
        }
    }
}
```

```

        db.addSiswa(new Siswa("001", "Ghiyatsi Miftahur Rahmat"));
        db.addSiswa(new Siswa("002", "Annisa Fitriana"));
        db.addSiswa(new Siswa("003", "Andina Nur Amalia"));
        db.addSiswa(new Siswa("004", "Najwa Aulia Dhofiroh"));
    }
    setListAdapter(new ArrayAdapter<Object>(this,
android.R.layout.simple_list_item_1, dataSiswa));
    registerForContextMenu(getListView());
}

```

```

@Override
public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
// TODOAuto-generated method stub
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("Action");
    menu.add(0,0,0,"Tambah");
    menu.add(0,1,1,"Hapus");
    menu.add(0,2,2,"Update");
}

@Override
public boolean onContextItemSelected(MenuItem item) {
// TODOAuto-generated method stub
    try{
        switch(item.getItemId()){
            case 0:{
                Class c =
Class.forName("com.example.datamahasiswa.Tambah");
                Intent i = new Intent(MainActivity.this, c);
                startActivity(i);break;
            }
            case 1:{
                DatabaseHandler db = new DatabaseHandler(this);
                AdapterView.AdapterContextMenuInfo info =
(AdapterView.AdapterContextMenuInfo) item.getMenuInfo();
                String[] args = {String.valueOf(info.id) };
                int xpos=Integer.parseInt(args[0]);
                db.deleteRow(dS[xpos]);
                Class c =
Class.forName("com.example.datamahasiswa.MainActivity");
                Intent i = new Intent(MainActivity.this, c);
                startActivity(i);
                break;
            }
            case 2:{
                DatabaseHandler db = new DatabaseHandler(this);

```



```

        AdapterView.AdapterContextMenuInfo info
        =(AdapterView.AdapterContextMenuInfo) item.getMenuInfo();
        String[] args ={String.valueOf(info.id)};
        Log.d("args0 : ",args[0]);
        int xpos=Integer.parseInt(args[0]);
        db.getSiswa(dS[xpos]);
        String namax=db.getSiswa(dS[xpos]).getNama();
        Intent i = new Intent(this, Update.class);
        Bundle bun = new Bundle();
        bun.putString("nis", dS[xpos]);
        bun.putString("nama", namax);
        i.putExtras(bun);
        startActivity(i); break;
    }
}
} catch(ClassNotFoundException e) {
    // TODOAuto-generated catch block
    e.printStackTrace();
}
return true;
}
}
}

```

Siswa.java

```

package com.example.datamahasiswa;

public class Siswa {
    private String nis;
    private String nama;
    public Siswa() {
    }
    public Siswa(String nis, String nama) {
        this.nis= nis;
        this.nama= nama;
    }
    public String getNis() {
        return nis;
    }
    public void setNis(String nis) {
        this.nis= nis;
    }
    public String getNama() {
        return nama;
    }
    public void setNama(String nama) {
        this.nama= nama;
    }
}

```

```
}  
}
```

Tambah.java

```
package com.example.datamahasiswa;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class Tambah extends AppCompatActivity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_tambah);  
        final DatabaseHandler db = new DatabaseHandler(this);  
        final EditText editNis = (EditText) findViewById(R.id.inputnis);  
        final EditText editNama = (EditText) findViewById(R.id.inputnama);  
        Button btnTambah = (Button) findViewById(R.id.btnTambah);  
        Button btnBatal = (Button) findViewById(R.id.btnCancel);  
        btnTambah.setOnClickListener(new View.OnClickListener()  
        {  
            @Override  
            public void onClick(View v) {  
                String nis = editNis.getText().toString();  
                String nama = editNama.getText().toString();  
                db.addSiswa(new Siswa(nis, nama));  
                editNis.setText("");  
                editNama.setText("");  
                try{  
                    Class c =  
Class.forName("com.example.datamahasiswa.MainActivity");  
                    Intent i = new Intent(Tambah.this, c);  
                    startActivity(i);  
                } catch(ClassNotFoundException e) {  
                    e.printStackTrace();  
                }  
            }  
        });  
        btnBatal.setOnClickListener(new View.OnClickListener() {  
            public void onClick(View v) {
```

```

        try {
            Class c =
Class.forName("com.example.datamahasiswa.MainActivity");
            Intent i=new Intent(Tambah.this,c);
            startActivity(i);
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
});
}
}

```

Update.java

```

package com.example.datamahasiswa;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class Update extends AppCompatActivity {
    private String xnis,xnama;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update);
        final DatabaseHandler db = new DatabaseHandler(this);
        final EditText editNis = (EditText)findViewById(R.id.updatenis);
        final EditText editNama = (EditText) findViewById(R.id.updatenama);
        Button btnTambah = (Button) findViewById(R.id.btnUpdate);
        Button btnBatal = (Button) findViewById(R.id.btnCancel);

        // ambil data siswa
        Bundle bun = this getIntent().getExtras();
        xnis = bun.getString("nis");
        xnama = bun.getString("nama");

        //masukkan data siswa
        editNama.setText(xnama);
        editNis.setText(xnis);

        btnTambah.setOnClickListener(new View.OnClickListener()
        {

```

```

@Override
public void onClick(View v) {
    String nis = editNis.getText().toString();
    String nama = editNama.getText().toString();
    //db.addSiswa(new Siswa(nis, nama));
    //db.updateData(nis,nama);
    db.updateMethod(nis,nama);
    editNis.setText("");
    editNama.setText("");
    try{
        Class c=
Class.forName("com.example.datamahasiswa.MainActivity");
        Intent i = new Intent(Update.this, c);
        startActivity(i);
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
}
});

btnBatal.setOnClickListener(new View.OnClickListener()
{public void onClick(View v) {
    try {
        Class c =
Class.forName("com.example.datamahasiswa.MainActivity");
        Intent i=new Intent(Update.this,c);
        startActivity(i);
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
}
});
}
}

```

AndroidManifest

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.datamahasiswa">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.DataMahasiswa">

```

```
<activity
    android:name=".Tambah"
    android:exported="false" />
<activity
    android:name=".Update"
    android:exported="false" />
<activity
    android:name=".MainActivity"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />

        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
</application>

</manifest>
```

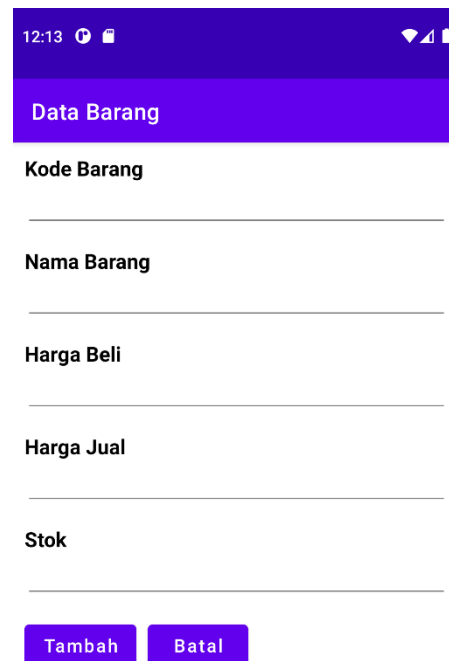
Data Barang



12:12

001 - Minyak goreng - 15000 - 18000 - 200

002 - Meja - 200000 - 300000 - 200



12:13

Data Barang

Kode Barang

Nama Barang

Harga Beli

Harga Jual

Stok

Tambah Batal



String.xml

```
<resources>
    <string name="app_name">Data Barang</string>
    <string name="batal">Batal</string>
    <string name="nama_lengkap">Nama Barang</string>
    <string name="nis">Kode Barang</string>
    <string name="update">Update</string>
    <string name="tambah">Tambah</string>
    <string name="harga_beli">Harga Beli</string>
    <string name="harga_jual">Harga Jual</string>
    <string name="stok">Stok</string>
</resources>
```

Layout

Activity_main

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginVertical="10dp"
    android:layout_marginHorizontal="10dp"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/simple_list_item_1"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>

</LinearLayout>
```

Activity_tambah

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_marginHorizontal="10dp"
    android:layout_marginVertical="10dp"
    tools:context=".Tambah">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="@string/nis"
        android:textColor="@color/black"
        android:textSize="18sp"
        android:textStyle="bold"/>

    <EditText
        android:id="@+id/inputkdbrg"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textSize="16sp"
        android:layout_marginBottom="15dp" />
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/nama_lengkap"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/inputnama"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/harga_beli"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/inputbeli"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/harga_jual"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/inputjual"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<TextView
    android:layout_width="match_parent"
```



```

        android:layout_height="wrap_content"
        android:text="@string/stok"
        android:textColor="@color/black"
        android:textSize="18sp"
        android:textStyle="bold"/>

<EditText
    android:id="@+id/inputstok"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnTambah"
        android:text="@string/tambah"
        android:textAllCaps="false"
        android:layout_marginRight="10dp"
        android:textSize="16sp"/>

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnCancel"
        android:text="@string/batal"
        android:textAllCaps="false"
        android:textSize="16sp"/>

</LinearLayout>

</LinearLayout>

```

Activity_update

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"

```

```
android:layout_marginHorizontal="10dp"
android:layout_marginVertical="10dp"
tools:context=".Update">
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/nis"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/updatekdbrg"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"
    android:enabled="false"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/nama_lengkap"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/updatenama"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/harga_beli"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>
```

```
<EditText
    android:id="@+id/updatebeli"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
```

```

        android:layout_marginBottom="15dp"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/harga_jual"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>

<EditText
    android:id="@+id/updatejual"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="@string/stok"
    android:textColor="@color/black"
    android:textSize="18sp"
    android:textStyle="bold"/>

<EditText
    android:id="@+id/updatestok"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="16sp"
    android:layout_marginBottom="15dp"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnUpdate"
        android:text="@string/update"
        android:textAllCaps="false"
        android:layout_marginRight="10dp"
        android:textSize="16sp"/>

    <Button
        android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:id="@+id/btnCancel"
        android:text="@string/batal"
        android:textAllCaps="false"
        android:textSize="16sp"/>

    </LinearLayout>

</LinearLayout>

```

Java

DatabaseHandler.java

```

package com.example.databarang;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import java.util.ArrayList;
import java.util.List;

public class DatabaseHandler extends SQLiteOpenHelper {

    private static final int DATABASE_VERSION= 1;
    // NamaDatabase
    private static final String DATABASE_NAME= "DataBarang";
    // NamaTable
    private static final String TABLE_BARANG= "Barang";
    // NamaKolomTable Siswa
    private static final String KEY_KDBRG= "kdbarang";
    private static final String KEY_NAMA= "nama";
    private static final String KEY_BELI= "hgbeli";
    private static final String KEY_JUAL= "hgjual";
    private static final String KEY_STOK= "jmlstok";

    public DatabaseHandler(Context context) {
        // TODOAuto-generated constructor stub
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }

    // Create Table
    @Override
    public void onCreate(SQLiteDatabase db) {
        // TODOAuto-generated method stub
    }

```

```

        String query_table_barang = "CREATE TABLE " + TABLE_BARANG +
        "(" + KEY_KDBRG + " TEXT PRIMARY KEY, " + KEY_NAMA + " TEXT NOT NULL, " + KEY_BELI
        + " TEXT NOT NULL, " + KEY_JUAL + " TEXT NOT NULL, " + KEY_STOK + " TEXT NOT
        NULL)";
        db.execSQL(query_table_barang);
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        // TODOAuto-generated method stub
        // Drop older table if existed
        db.execSQL("DROP TABLE IF EXISTS " + TABLE_BARANG);
        // Create tables again
        onCreate(db);
    }

    // add new barang
    public void addBarang(Barang barang) {
        SQLiteDatabase db = this.getWritableDatabase();
        ContentValues values = new ContentValues();
        values.put(KEY_KDBRG, barang.getKdbarang());
        values.put(KEY_NAMA, barang.getNama());
        values.put(KEY_BELI, barang.getBeli());
        values.put(KEY_JUAL, barang.getJual());
        values.put(KEY_STOK, barang.getStok());
    // Inserting Row
        db.insert(TABLE_BARANG, null, values);
        db.close();
    }

    // read barang
    public Barang getBarang(String kdbarang) {
        SQLiteDatabase db = this.getReadableDatabase();
        Cursor cursor = db.query(TABLE_BARANG, new String[] {KEY_KDBRG,
        KEY_NAMA}, KEY_KDBRG + "=?", new String[] {kdbarang}, null, null, null);
        if(cursor != null)
            cursor.moveToFirst();
        Barang barang = new Barang(cursor.getString(0), cursor.getString(1),
        cursor.getInt(2), cursor.getInt(3), cursor.getInt(4) );
        return barang;
    }

    //read all siswa
    public List<Barang> getSemuaBarang() {
        List<Barang> barangList = new ArrayList<Barang>();
        String query_select_barang = "SELECT * FROM " + TABLE_BARANG;
        SQLiteDatabase db = this.getWritableDatabase();
    }

```

```

        Cursor cursor = db.rawQuery(query_select_barang,null);
        if(cursor.moveToFirst()) {
            do{
                Barang barang = new Barang(cursor.getString(0),
cursor.getString(1), cursor.getInt(2), cursor.getInt(3), cursor.getInt(4) );
                barangList.add(barang);
            } while(cursor.moveToNext());
        }
        return barangList;
    }

    //delete data barang
    public void deleteBarang(Barang barang) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_BARANG, KEY_KDBRG+ "'"+
barang.getKdbarang()+"'",null);
        db.close();
        System.out.println("Data terhapus "+barang.getKdbarang());
    }

    public void deleteRow(String xkdbarang) {
        SQLiteDatabase db = this.getWritableDatabase();
        db.delete(TABLE_BARANG, KEY_KDBRG+ "'"+ xkdbarang+"'",null);
        db.close();
        System.out.println("Data terhapus "+xkdbarang);
    }

    public void updateMethod(String kdbarang, String nama, int beli, int jual,
int stok){
        SQLiteDatabase db = this.getWritableDatabase();
        db.execSQL("update "+TABLE_BARANG + " set nama='"+ nama + "'" + "
, beli=" + beli + " ,jual=" + jual + " ,stok=" + stok +" where kdbarang='"+
kdbarang + "'" ) ;
        db.close();
        System.out.println("Data sudah di update "+kdbarang);
    }
}

```

Barang.java

```

package com.example.databarang;

public class Barang {
    private String kdbarang;

```

```
private String nama;
private int beli;
private int jual;
private int stok;

public Barang(String kdbarang, String nama, int beli, int jual, int stok)
{
    this.kdbarang= kdbarang;
    this.nama= nama;
    this.beli= beli;
    this.jual= jual;
    this.stok= stok;
}
public String getKdbarang() {
    return kdbarang;
}
public void setKdbarang(String kdbarang) {
    this.kdbarang= kdbarang;
}
public String getName() {
    return nama;
}
public void setName(String nama) {
    this.nama= nama;
}

public int getBeli() {
    return beli;
}

public void setBeli(int beli) {
    this.beli = beli;
}

public int getJual() {
    return jual;
}

public void setJual(int jual) {
    this.jual = jual;
}

public int getStok() {
    return stok;
}

public void setStok(int stok) {
    this.stok = stok;
}
```

```
}  
}
```

Mainactivity.java

```
package com.example.databarang;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.app.ListActivity;  
import android.content.Intent;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.ContextMenu;  
import android.view.MenuItem;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.AdapterView.OnItemClickListener;  
import android.widget.ArrayAdapter;  
  
import java.util.List;  
  
public class MainActivity extends ListActivity {  
    String dataBarang[] = null;  
    String dS[] = null;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        //setContentView(R.layout.activity_main);  
        // Tambah Siswa  
        DatabaseHandler db = new DatabaseHandler(this);  
        // Membaca Semua Siswa  
        Log.d("Baca Siswa: ", "Membaca Semua Data Siswa..");  
        List<Barang> barang = db.getSemuaBarang();  
        dataBarang= new String[barang.size()];  
        dS= new String[barang.size()];  
        int i=0;  
        for(Barang s : barang) {  
            /*String log = "Kode Barang: "+ s.getKdbarang() + ",Nama: "+  
s.getNama() + ",Harga Beli: "+ s.getJual() + ",Harga Jual: "+ s.getJual() +  
",Stok: "+ s.getStok() ;  
            Log.d("Name: ", log);*/  
            dataBarang[i] = s.getKdbarang() + " - "+ s.getNama() + " - "+  
s.getBeli() + " - "+ s.getJual() + " - "+ s.getStok();  
            dS[i] = s.getKdbarang();  
            i++;  
        }  
  
        // check data  
        if(i==0)
```



```

    {
        Log.d("Tambah Barang: ", "Menambah Data Barang..");
        db.addBarang(new Barang("001", "Minyak goreng", 15000, 18000,
200));

        db.addBarang(new Barang("002", "Meja", 200000, 300000, 200));
        db.addBarang(new Barang("003", "Kursi", 150000, 200000, 200));
        db.addBarang(new Barang("004", "Mouse", 300000, 400000, 200));
    }
    setListAdapter(new ArrayAdapter<Object>(this,
android.R.layout.simple_list_item_1, dataBarang));
    registerForContextMenu(getListView());
}

@Override
public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
// TODOAuto-generated method stub
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("Action");
    menu.add(0,0,0,"Tambah");
    menu.add(0,1,1,"Hapus");
    menu.add(0,2,2,"Update");
}

@Override
public boolean onContextItemSelected(MenuItem item) {
// TODOAuto-generated method stub
    try{
        switch(item.getItemId()){
            case 0:{
                Class c = Class.forName("com.example.databarang.Tambah");
                Intent i = new Intent(MainActivity.this, c);
                startActivity(i);break;
            }
            case 1:{
                DatabaseHandler db = new DatabaseHandler(this);
                AdapterView.AdapterContextMenuInfo info =
(AdapterView.AdapterContextMenuInfo) item.getMenuInfo();
                String[] args = {String.valueOf(info.id) };
                int xpos=Integer.parseInt(args[0]);
                db.deleteRow(ds[xpos]);
                Class c =
Class.forName("com.example.databarang.MainActivity");
                Intent i = new Intent(MainActivity.this, c);
                startActivity(i);
                break;
            }
            case 2:{

```

```

        DatabaseHandler db = new DatabaseHandler(this);
        AdapterView.AdapterContextMenuInfo info
=(AdapterView.AdapterContextMenuInfo) item.getMenuInfo();
        String[] args ={String.valueOf(info.id)};
        Log.d("args0 : ",args[0]);
        int xpos=Integer.parseInt(args[0]);
        db.getBarang(dS[xpos]);
        String namax=db.getBarang(dS[xpos]).getNama();
        Intent i = new Intent(this, Update.class);
        Bundle bun = new Bundle();
        bun.putString("kdbarang", dS[xpos]);
        bun.putString("nama", namax);
        i.putExtras(bun);
        startActivity(i); break;
    }
}
} catch(ClassNotFoundException e) {
    // TODOAuto-generated catch block
    e.printStackTrace();
}
return true;
}
}
}

```

Tambah.java

```

package com.example.databarang;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class Tambah extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tambah);
        final DatabaseHandler db = new DatabaseHandler(this);
        final EditText editKdbrg = (EditText)findViewById(R.id.inputkdbrg);
        final EditText editNama = (EditText) findViewById(R.id.inputnama);
        final EditText editBeli = (EditText) findViewById(R.id.inputbeli);
        final EditText editJual = (EditText) findViewById(R.id.inputjual);
    }
}

```

```

final EditText editStok = (EditText) findViewById(R.id.inputstok);
Button btnTambah = (Button) findViewById(R.id.btnTambah);
Button btnBatal = (Button) findViewById(R.id.btnCancel);
btnTambah.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v) {
        String kdbarang = editKdbrg.getText().toString();
        String nama = editNama.getText().toString();
        int beli = Integer.valueOf(editBeli.getText().toString());
        int jual = Integer.valueOf(editJual.getText().toString());
        int stok = Integer.valueOf(editStok.getText().toString());
        db.addBarang(new Barang(kdbarang,nama,beli,jual,stok));
        editKdbrg.setText("");
        editNama.setText("");
        editBeli.setText("");
        editJual.setText("");
        editStok.setText("");
        try{
            Class c =
Class.forName("com.example.databarang.MainActivity");
            Intent i = new Intent(Tambah.this, c);
            startActivity(i);
        } catch(ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
});
btnBatal.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {

        try {
            Class c =
Class.forName("com.example.databarang.MainActivity");
            Intent i=new Intent(Tambah.this,c);
            startActivity(i);
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
});
}
}

```

Update.java

```
package com.example.databarang;
```

```

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class Update extends AppCompatActivity {
    private String xkdbarang,xnama;
    private int xbeli,xjual,xstok;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update);
        final DatabaseHandler db = new DatabaseHandler(this);
        final EditText editKdbrg = (EditText)findViewById(R.id.updatekdbrg);
        final EditText editNama = (EditText) findViewById(R.id.updatenama);
        final EditText editBeli = (EditText) findViewById(R.id.updatebeli);
        final EditText editJual = (EditText) findViewById(R.id.updatejual);
        final EditText editStok = (EditText) findViewById(R.id.updatestok);
        Button btnTambah = (Button) findViewById(R.id.btnUpdate);
        Button btnBatal = (Button) findViewById(R.id.btnCancel);

        // ambil data barang
        Bundle bun = this getIntent().getExtras();
        xkdbarang = bun.getString("kdbarang");
        xnama = bun.getString("nama");
        xbeli = bun.getInt("hgbeli");
        xjual = bun.getInt("hgjual");
        xstok = bun.getInt("stok");

        //masukkan data barang
        editNama.setText(xnama);
        editKdbrg.setText(xkdbarang);
        editBeli.setText(xbeli);
        editJual.setText(xjual);
        editStok.setText(xstok);

        btnTambah.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v) {
                String kdbarang = editKdbrg.getText().toString();
                String nama = editNama.getText().toString();
                int beli = Integer.valueOf(editBeli.getText().toString());
                int jual = Integer.valueOf(editJual.getText().toString());
            }
        })
    }
}

```

```

        int stok = Integer.valueOf(editStok.getText().toString());

        db.updateMethod(kdbarang,nama,beli,jual,stok);
        editKdbrg.setText("");
        editNama.setText("");
        editBeli.setText("");
        editJual.setText("");
        editStok.setText("");

        try{
            Class c=
Class.forName("com.example.databarang.MainActivity");
            Intent i = new Intent(Update.this, c);
            startActivity(i);
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
});

btnBatal.setOnClickListener(new View.OnClickListener()
{public void onClick(View v) {
    try {
        Class c =
Class.forName("com.example.databarang.MainActivity");
        Intent i=new Intent(Update.this,c);
        startActivity(i);
    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    }
}
});
}
}

```