

```

1  package com.example.mydiary;
2
3  import android.database.Cursor;
4  import android.database.sqlite.SQLiteDatabase;
5  import android.os.Bundle;
6  import android.support.v7.app.AppCompatActivity;
7  import android.view.Menu;
8  import android.view.MenuItem;
9  import android.widget.ArrayAdapter;
10 import android.widget.ListView;
11
12 import com.example.mydiary.db.DatabaseHelper;
13 import com.example.mydiary.model.NoteItem;
14
15 import java.util.ArrayList;
16
17 public class MainActivity extends AppCompatActivity {
18
19     private ListView mNotebookListView;
20     private DatabaseHelper dbHelper;
21     private SQLiteDatabase db;
22
23     private ArrayList<NoteItem> noteItemList = new ArrayList<>();
24
25     @Override
26     protected void onCreate(Bundle savedInstanceState) {
27         super.onCreate(savedInstanceState);
28         setContentView(R.layout.activity_main);
29
30         mNotebookListView = findViewById(R.id.notebook_list_view);
31
32         dbHelper = new DatabaseHelper(this);
33         db = dbHelper.getWritableDatabase();
34
35         loadDataFromDatabase();
36         ArrayAdapter adapter = new ArrayAdapter<>(
37             this,
38             R.layout.item_note,
39             R.id.title_text_view,
40             noteItemList
41         );
42         mNotebookListView.setAdapter(adapter);
43     }
44
45     private void loadDataFromDatabase() {
46         Cursor cursor = db.query(
47             DatabaseHelper.TABLE_NOTEBOOK,
48             null,
49             null,
50             null,
51             null,
52             null,
53             null
54         );
55         while (cursor.moveToNext()) {
56             long id = cursor.getLong(cursor.getColumnIndex(DatabaseHelper.COL_ID));
57             String title = cursor.getString(cursor.getColumnIndex(DatabaseHelper.COL_TITLE));
58             String details = cursor.getString(cursor.getColumnIndex(DatabaseHelper.COL_DETAILS));
59
60             NoteItem item = new NoteItem(id, title, details);
61             noteItemList.add(item);
62         }
63     }
64
65     @Override
66     public boolean onCreateOptionsMenu(Menu menu) {
67         getMenuInflater().inflate(R.menu.main, menu);
68         return true;
69     }
70
71     @Override
72     public boolean onOptionsItemSelected(MenuItem item) {
73         int id = item.getItemId();
74
75         if (id == R.id.action_add_note) {
76             // todo:
77             return true;

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78     }
79
80     return super.onOptionsItemSelected(item);
81 }
82 }
83
```

```
1 package com.example.mydiary;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.support.v7.app.AppCompatActivity;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.Toast;
10
11 public class LoginActivity extends AppCompatActivity {
12
13     private static final String PASSWORD = "1234";
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_login);
19
20         Button loginButton = findViewById(R.id.login_button);
21         loginButton.setOnClickListener(new View.OnClickListener() {
22             @Override
23             public void onClick(View view) {
24                 EditText passwordEditText = findViewById(R.id.password_edit_text);
25                 String inputPassword = passwordEditText.getText().toString();
26                 if (PASSWORD.equals(inputPassword)) {
27                     Toast.makeText(
28                         getApplicationContext(),
29                         "Welcome to MyDiary.",
30                         Toast.LENGTH_LONG
31                     ).show();
32
33                     Intent intent = new Intent(getApplicationContext(), MainActivity.class);
34                     startActivity(intent);
35                 } else {
36                     Toast.makeText(
37                         getApplicationContext(),
38                         "Invalid password! Please try again.",
39                         Toast.LENGTH_LONG
40                     ).show();
41                 }
42             }
43         });
44     }
45 }
46
```

```

1  package com.example.mydiary.db;
2
3  import android.content.ContentValues;
4  import android.content.Context;
5  import android.database.sqlite.SQLiteDatabase;
6  import android.database.sqlite.SQLiteOpenHelper;
7
8  /**
9   * Created by Promlert on 2018-03-21.
10  */
11
12  public class DatabaseHelper extends SQLiteOpenHelper {
13
14      private static final String DATABASE_NAME = "notebook.db";
15      private static final int DATABASE_VERSION = 2;
16
17      private static final String TABLE_NOTEBOOK = "notebook";
18      private static final String COL_ID = "_id";
19      private static final String COL_TITLE = "title";
20      private static final String COL_DETAILS = "details";
21
22      private static final String SQL_CREATE_TABLE_NOTEBOOK = "CREATE TABLE " + TABLE_NOTEBOOK + "("
23          + COL_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, "
24          + COL_TITLE + " TEXT, "
25          + COL_DETAILS + " TEXT"
26          + ")";
27
28      public DatabaseHelper(Context context) {
29          super(context, DATABASE_NAME, null, DATABASE_VERSION);
30      }
31
32      @Override
33      public void onCreate(SQLiteDatabase db) {
34          db.execSQL(SQL_CREATE_TABLE_NOTEBOOK);
35          insertInitialData(db);
36      }
37
38      private void insertInitialData(SQLiteDatabase db) {
39          ContentValues cv = new ContentValues();
40          cv.put(COL_TITLE, "เรียนแอนดรอยด์");
41          cv.put(COL_DETAILS, "20-22 มี.ค. 61 เวลา 9.00-16.00 น. ห้อง 506");
42          db.insert(TABLE_NOTEBOOK, null, cv);
43
44          cv = new ContentValues();
45          cv.put(COL_TITLE, "เลขเด็ดงวดนี้");
46          cv.put(COL_DETAILS, "บน 12, ล่าง 34");
47          db.insert(TABLE_NOTEBOOK, null, cv);
48
49          cv = new ContentValues();
50          cv.put(COL_TITLE, "ทดสอบหัวข้อ");
51          cv.put(COL_DETAILS, "ทดสอบรายละเอียด");
52          db.insert(TABLE_NOTEBOOK, null, cv);
53      }
54
55      @Override
56      public void onUpgrade(SQLiteDatabase db, int i, int i1) {
57          db.execSQL("DROP TABLE IF EXISTS " + TABLE_NOTEBOOK);
58          onCreate(db);
59      }
60  }
61

```

```
1 package com.example.mydiary.model;
2
3 /**
4  * Created by Promlert on 2018-03-21.
5  */
6
7 public class NoteItem {
8
9     public final long id;
10    public final String title;
11    public final String details;
12
13    public NoteItem(long id, String title, String details) {
14        this.id = id;
15        this.title = title;
16        this.details = details;
17    }
18
19    @Override
20    public String toString() {
21        return title;
22    }
23 }
24
```