**National Institute of Technology, Warangal**

**End Lab Exam – MCA 5th Sem**



***Mobile Application Development***

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**SimpleNotepadActivity.java**

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| package com.notepad;  import java.util.ArrayList;  import android.app.Activity;  import android.content.Intent;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.os.Bundle;  import android.util.Log;  import android.view.ContextMenu;  import android.view.ContextMenu.ContextMenuInfo;  import android.view.MenuInflater;  import android.view.MenuItem;  import android.view.View;  import android.widget.AdapterView;  import android.widget.AdapterView.AdapterContextMenuInfo;  import android.widget.AdapterView.OnItemClickListener;  import android.widget.ArrayAdapter;  import android.widget.Button;  import android.widget.ListView;  import android.widget.TextView;  public class Simple\_NotepadActivity extends Activity implements  OnItemClickListener {  private static final String TAG = "notepad";  private ListView noteList;  private Button addNoteBtn;  private ArrayAdapter<String> adapter;  private Cursor notes;  private DBHelper dbhelper;  private ArrayList<String> titles;  private ArrayList<Item> items;  private int position = 0;  @Override  public void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.main);  noteList = (ListView) findViewById(R.id.noteList);  addNoteBtn = (Button) findViewById(R.id.addNote);  dbhelper = new DBHelper(getApplicationContext());  setNotes();  this.registerForContextMenu(noteList);  addNoteBtn.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  startActivity(new Intent(getApplicationContext(),  CreateNote.class));  }  });  }  public void setNotes() {  titles = new ArrayList<String>();  items = new ArrayList<Item>();  SQLiteDatabase db = dbhelper.getReadableDatabase();  notes = dbhelper.getNotes2(db);  startManagingCursor(notes);  db.close();  if (notes.moveToFirst()) {  do {  items.add(new Item(notes.getShort(0), notes.getString(1)));  } while (notes.moveToNext());  }  for (Item i : items) {  titles.add(i.getTitle());  }  adapter = new ArrayAdapter<String>(this,  android.R.layout.simple\_list\_item\_1, titles);  noteList.setAdapter(adapter);  noteList.setOnItemClickListener(this);  }  @Override  protected void onResume() {  super.onResume();  setNotes();  }  @Override  public void onCreateContextMenu(ContextMenu menu, View v,  ContextMenuInfo menuInfo) {  super.onCreateContextMenu(menu, v, menuInfo);  AdapterContextMenuInfo info = (AdapterContextMenuInfo) menuInfo;  position = info.position;  menu.setHeaderTitle(getResources().getString(R.string.CtxMenuHeader));  MenuInflater inflater = getMenuInflater();  inflater.inflate(R.menu.context\_menu, menu);  }  @Override  public boolean onContextItemSelected(MenuItem item) {    TextView tv = (TextView) noteList.getChildAt(position);    String title = tv.getText().toString();  switch (item.getItemId()) {  case R.id.showNote:  Intent mIntent = new Intent(this, OneNote.class);  mIntent.putExtra("id", items.get(position).getId());  startActivity(mIntent);  break;  case R.id.editNote:  Intent i = new Intent(this, CreateNote.class);  i.putExtra("id", items.get(position).getId());  Log.d(TAG, title);  i.putExtra("isEdit", true);  startActivity(i);  break;  case R.id.removeNote:    dbhelper.removeNote(items.get(position).getId());    setNotes();  break;  }  return false;  }  @Override  public void onItemClick(AdapterView<?> arg0, View arg1, int arg2, long arg3) {  TextView tv = (TextView) arg1;  String title = tv.getText().toString();  Intent mIntent = new Intent(this, OneNote.class);  mIntent.putExtra("title", title);  mIntent.putExtra("id", items.get(arg2).getId());  startActivity(mIntent);  }    } |

**CreateNote.java**

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| package com.notepad;  import android.app.Activity;  import android.content.Intent;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.os.Bundle;  import android.util.Log;  import android.view.View;  import android.widget.Button;  import android.widget.EditText;  import android.widget.Toast;  public class CreateNote extends Activity {    private static final String TAG = "notepad";  private Button addNoteToDB;  private EditText titleEditText;  private EditText contentEditText;  private boolean isEdit;  private DBHelper dbhelper;  private SQLiteDatabase db;  private String editTitle;  private int id = 0;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.createlayout);  addNoteToDB = (Button) findViewById(R.id.addNoteToDB);  titleEditText = (EditText) findViewById(R.id.TitleEditText);  contentEditText = (EditText) findViewById(R.id.ContentEditText);  dbhelper = new DBHelper(getApplicationContext());  Intent mIntent = getIntent();  editTitle = mIntent.getStringExtra("title");  id = mIntent.getIntExtra("id", 0);  isEdit = mIntent.getBooleanExtra("isEdit", false);  if(isEdit) {  Log.d(TAG, "isEdit");  db = dbhelper.getReadableDatabase();  Cursor c = dbhelper.getNote(db, id);  db.close();  titleEditText.setText(c.getString(0));  contentEditText.setText(c.getString(1));  addNoteToDB.setText(getResources().getString(R.string.updateNoteButton));  }  addNoteToDB.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  String title = titleEditText.getText().toString();  String content = contentEditText.getText().toString();  if (title.equals("") || content.equals("")) {  Toast.makeText(getApplicationContext(), getResources().getString(R.string.validation), Toast.LENGTH\_LONG).show();  return;  }  if (!isEdit) {  dbhelper = new DBHelper(getApplicationContext());  dbhelper.addNote(title, content);  finish();  } else {  dbhelper.updateNote(title, content, editTitle);  finish();  }  }  });  }  @Override  protected void onPause() {  super.onPause();  dbhelper.close();  }  } |

**DatabseHelper.java**

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| package com.notepad;  import java.util.Date;  import android.content.ContentValues;  import android.content.Context;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.database.sqlite.SQLiteOpenHelper;  public class DBHelper extends SQLiteOpenHelper {  private Context ctx;  private static final int version = 1;  private static final String DB\_NAME = "notesDB";  private static final String TABLE\_NAME = "notes";  private static final String KEY\_ID = "id";  private static final String KEY\_TITLE = "noteTitle";  private static final String KEY\_CONTENT = "noteContent";  private static final String KEY\_DATE = "date";  private static final String CREATE\_TABLE = "CREATE TABLE " + TABLE\_NAME + " (id INTEGER PRIMARY KEY AUTOINCREMENT, "+KEY\_TITLE+" TEXT NOT NULL, "+KEY\_CONTENT+" TEXT NOT NULL, "+KEY\_DATE+" TEXT);";  public DBHelper(Context context) {  super(context, DB\_NAME, null, version);  this.ctx = context;  }  @Override  public void onCreate(SQLiteDatabase db) {  db.execSQL(CREATE\_TABLE);  }  @Override  public void onUpgrade(SQLiteDatabase db, int arg1, int arg2) {  db.execSQL("DROP TABLE IF EXIST " + TABLE\_NAME);  onCreate(db);  }  public void addNote(String title, String content) {  SQLiteDatabase db = this.getWritableDatabase();  ContentValues cv = new ContentValues();  cv.put("noteTitle", title);  cv.put("noteContent", content);  cv.put("date", new Date().toString());  db.insert(TABLE\_NAME, null, cv);  db.close();    }  public Cursor getNotes(SQLiteDatabase db) {  Cursor c = db.query(TABLE\_NAME, new String[] {KEY\_TITLE, KEY\_CONTENT}, null, null, null, null, "id DESC");  c.moveToFirst();  return c;  }  public Cursor getNotes2(SQLiteDatabase db) {  Cursor c = db.query(TABLE\_NAME, new String[] {KEY\_ID, KEY\_TITLE}, null, null, null, null, "id DESC");  c.moveToFirst();  return c;  }  public Cursor getNote(SQLiteDatabase db, int id) {  Cursor c = db.query(TABLE\_NAME, new String[] {KEY\_TITLE, KEY\_CONTENT, KEY\_DATE}, KEY\_ID + " = ?", new String[] { String.valueOf(id) }, null, null, null);  c.moveToFirst();  return c;  }    public void removeNote(int id) {  SQLiteDatabase db = getWritableDatabase();  db.delete(TABLE\_NAME, KEY\_ID + " = ?", new String[] { String.valueOf(id) });  db.close();  }  public void updateNote(String title, String content, String editTitle) {  SQLiteDatabase db = this.getWritableDatabase();  ContentValues cv = new ContentValues();  cv.put("noteTitle", title);  cv.put("noteContent", content);  cv.put("date", new Date().toString());  db.update(TABLE\_NAME, cv, KEY\_TITLE + " LIKE '" + editTitle + "'", null);  db.close();  }  } |

**ListNote.java**

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| package com.notepad;  public class Item {  private int id;  private String title;  public Item(int id, String title) {  this.id = id;  this.title = title;  }  public int getId() {  return id;  }  public String getTitle() {  return title;  }  } |

**GetNote.java**

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| package com.notepad;  import android.app.Activity;  import android.content.Intent;  import android.database.Cursor;  import android.database.sqlite.SQLiteDatabase;  import android.os.Bundle;  import android.util.Log;  import android.widget.TextView;  public class OneNote extends Activity {  private static final String TAG = "notepad";  private TextView noteTitle;  private TextView createdAt;  private TextView noteContent;  private DBHelper dbhelper;  private SQLiteDatabase db;  private String title = "defaultTitle";  private int id = 0;  private String content = "defaultContent";  private String date = "date";  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.onenote);  dbhelper = new DBHelper(getApplicationContext());  noteTitle = (TextView) findViewById(R.id.noteTitle);  noteContent = (TextView) findViewById(R.id.noteContent);  createdAt = (TextView) findViewById(R.id.createdAt);  Intent mIntent = getIntent();  id = mIntent.getIntExtra("id", 0);  db = dbhelper.getReadableDatabase();  Cursor c = dbhelper.getNote(db, id);  db.close();  title = c.getString(0).toString();  content = c.getString(1).toString();  date = c.getString(2).toString();  noteTitle.setText(title);  noteContent.setText(content);  createdAt.setText(date);  }  } |

***XML Files***

**AndroidManifest.java**

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| <?xml version="1.0" encoding="utf-8"?>  <manifest xmlns:android="http://schemas.android.com/apk/res/android"  package="com.notepad"  android:versionCode="1"  android:versionName="1.0" >  <uses-sdk android:minSdkVersion="4" />  <application  android:icon="@drawable/ic\_launcher"  android:label="@string/app\_name" >  <activity  android:label="@string/app\_name"  android:name=".Simple\_NotepadActivity" >  <intent-filter >  <action android:name="android.intent.action.MAIN" />  <category android:name="android.intent.category.LAUNCHER" />  </intent-filter>  </activity>  <activity  android:label="@string/oneNote"  android:name=".OneNote" >  </activity>  <activity  android:label="@string/oneNote"  android:name=".CreateNote" >  </activity>  </application>  </manifest> |

**Layout.xml**

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| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="fill\_parent"  android:layout\_height="fill\_parent"  android:orientation="vertical" >  <ScrollView  android:id="@+id/scrollView1"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content" >  <LinearLayout  android:id="@+id/linearLayout3"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content"  android:orientation="vertical" >  <TextView  android:id="@+id/textView1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/noteTitle"  android:textAppearance="?android:attr/textAppearanceLarge" />  <EditText  android:id="@+id/TitleEditText"  android:hint="@string/titleHint"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content" >  <requestFocus />  </EditText>  <TextView  android:id="@+id/textView2"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="@string/noteContent"  android:textAppearance="?android:attr/textAppearanceLarge" />  <EditText  android:id="@+id/ContentEditText"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content"  android:inputType="textMultiLine"  android:lines="4" >  </EditText>  </LinearLayout>  </ScrollView>  <Button  android:id="@+id/addNoteToDB"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content"  android:text="@string/saveNoteButton" />  </LinearLayout> |

**main.xml**

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| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="fill\_parent"  android:layout\_height="fill\_parent"  android:orientation="vertical" >  <TextView  android:id="@+id/textView1"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center"  android:text="@string/mainHeader"  android:textAppearance="?android:attr/textAppearanceLarge" />  <ListView  android:id="@+id/noteList"  android:layout\_width="fill\_parent"  android:layout\_height="0dip"  android:layout\_weight="0.75"  >  </ListView>  <Button  android:id="@+id/addNote"  android:layout\_width="fill\_parent"  android:layout\_height="wrap\_content"  android:text="@string/addNoteButton" />  </LinearLayout> |

**OneNote.xml**

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| --- |
| <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="fill\_parent"  android:layout\_height="fill\_parent"  android:orientation="vertical" >  <TextView  android:id="@+id/noteTitle"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_margin="5dp"  android:text="Large Text"  android:textAppearance="?android:attr/textAppearanceLarge" />  <TextView  android:id="@+id/createdAt"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_margin="5dp"  android:text="Medium Text" />  <TextView  android:id="@+id/noteContent"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_margin="5dp"  android:text="TextView"  android:textAppearance="?android:attr/textAppearanceMedium" />  </LinearLayout> |

**ContextMenu.xml**

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| <?xml version="1.0" encoding="utf-8"?>  <menu xmlns:android="http://schemas.android.com/apk/res/android" >  <item android:id="@+id/showNote" android:title="@string/showNote"></item>  <item android:id="@+id/editNote" android:title="@string/editNote"></item>  <item android:id="@+id/removeNote" android:title="@string/removeNote"></item>  </menu> |

**strings.xml**

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| --- |
| <?xml version="1.0" encoding="utf-8"?>  <resources>  <string name="app\_name">Simple\_Notepad</string>  <string name="oneNote">NoteView</string>  <string name="addNoteButton">New note</string>  <string name="mainHeader">My notes</string>  <string name="CtxMenuHeader">Choose action</string>  <string name="updateNoteButton">Update note</string>  <string name="validation">Please fill the title and/or content field</string>  <string name="noteTitle">Note\'s title</string>  <string name="noteContent">Note\'s content</string>  <string name="saveNoteButton">Save note</string>  <string name="showNote">Show note</string>  <string name="editNote">Edit note</string>  <string name="removeNote">Remove note</string>    <string name="titleHint">Enter title here</string>  </resources> |