|  |  |
| --- | --- |
| 1 | <?xml version="1.0" encoding="utf-8"?> |
| 2 | <LinearLayout xmlns:android="<http://schemas.android.com/apk/res/android>" |
| 3 | xmlns:app="<http://schemas.android.com/apk/res-auto>" |
| 4 | xmlns:tools="<http://schemas.android.com/tools>" |
| 5 | android:layout\_width="match\_parent" |
| 6 | android:layout\_height="match\_parent" |
| 7 | android:orientation="vertical" |
| 8 | android:padding="16dp" |
| 9 | tools:context=".MainActivity"> |
| 10 |  |
| 11 | <EditText |
| 12 | android:id="@+id/edit\_id" |
| 13 | android:layout\_width="match\_parent" |
| 14 | android:layout\_height="wrap\_content" |
| 15 | android:hint="Id" |
| 16 | android:layout\_margin="10dp" |
| 17 | android:inputType="number"/> |
| 18 |  |
| 19 | <EditText |
| 20 | android:id="@+id/edit\_name" |
| 21 | android:layout\_width="match\_parent" |
| 22 | android:layout\_height="wrap\_content" |
| 23 | android:hint="Name" |
| 24 | android:layout\_margin="5dp" |
| 25 | android:inputType="text"/> |
| 26 |  |
| 27 | <EditText |
| 28 | android:id="@+id/edit\_email" |
| 29 | android:layout\_width="match\_parent" |
| 30 | android:layout\_height="wrap\_content" |
| 31 | android:hint="Email" |
| 32 | android:layout\_margin="5dp" |
| 33 | android:inputType="textEmailAddress"/> |
| 34 |  |
| 35 | <EditText |
| 36 | android:id="@+id/edit\_mobile" |
| 37 | android:layout\_width="match\_parent" |
| 38 | android:layout\_height="wrap\_content" |
| 39 | android:hint="Mobile" |
| 40 | android:layout\_margin="5dp" |
| 41 | android:inputType="phone"/> |
| 42 |  |
| 43 | <LinearLayout |
| 44 | android:layout\_width="match\_parent" |
| 45 | android:layout\_height="wrap\_content" |
| 46 | android:orientation="horizontal"> |
| 47 |  |
| 48 | <Button |
| 49 | android:id="@+id/button\_insert" |
| 50 | android:layout\_width="wrap\_content" |
| 51 | android:layout\_height="wrap\_content" |
| 52 | android:text="save" |
| 53 | android:textSize="18sp" |
| 54 | android:backgroundTint="@color/colorPrimary" |
| 55 | android:textColor="@android:color/white" |
| 56 | android:layout\_weight="1" |
| 57 | android:layout\_marginTop="20dp" /> |
| 58 |  |
| 59 | <Button |
| 60 | android:id="@+id/button\_view" |
| 61 | android:layout\_width="wrap\_content" |
| 62 | android:layout\_height="wrap\_content" |
| 63 | android:text="view" |
| 64 | android:textSize="18sp" |
| 65 | android:backgroundTint="@color/colorPrimary" |
| 66 | android:textColor="@android:color/white" |
| 67 | android:layout\_weight="1" |
| 68 | android:layout\_marginTop="20dp"/> |
| 69 | </LinearLayout> |
| 70 |  |
| 71 | <LinearLayout |
| 72 | android:layout\_width="match\_parent" |
| 73 | android:layout\_height="wrap\_content" |
| 74 | android:orientation="horizontal"> |
| 75 |  |
| 76 | <Button |
| 77 | android:id="@+id/button\_delete" |
| 78 | android:layout\_width="wrap\_content" |
| 79 | android:layout\_height="wrap\_content" |
| 80 | android:text="delete" |
| 81 | android:textSize="18sp" |
| 82 | android:backgroundTint="@color/colorPrimary" |
| 83 | android:textColor="@android:color/white" |
| 84 | android:layout\_weight="1" |
| 85 | android:layout\_marginTop="20dp"/> |
| 86 |  |
| 87 | <Button |
| 88 | android:id="@+id/button\_update" |
| 89 | android:layout\_width="wrap\_content" |
| 90 | android:layout\_height="wrap\_content" |
| 91 | android:text="update" |
| 92 | android:textSize="18sp" |
| 93 | android:backgroundTint="@color/colorPrimary" |
| 94 | android:textColor="@android:color/white" |
| 95 | android:layout\_weight="1" |
| 96 | android:layout\_marginTop="20dp"/> |
| 97 | </LinearLayout> |
| 98 |  |
| 99 | <Button |
| 100 | android:id="@+id/button\_search" |
| 101 | android:layout\_width="match\_parent" |
| 102 | android:layout\_height="wrap\_content" |
| 103 | android:text="search" |
| 104 | android:textSize="18sp" |
| 105 | android:backgroundTint="@color/colorPrimary" |
| 106 | android:textColor="@android:color/white" |
| 107 | android:layout\_marginTop="20dp"/> |
| 108 |  |
| 109 | </LinearLayout> |
| 110 |  |

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| 1 | import android.content.ContentValues; |
| 2 | import android.content.Context; |
| 3 | import android.database.Cursor; |
| 4 | import android.database.sqlite.SQLiteDatabase; |
| 5 | import android.database.sqlite.SQLiteOpenHelper; |
| 6 |  |
| 7 | public class DbHelper extends SQLiteOpenHelper { |
| 8 |  |
| 9 | SQLiteDatabase db; |
| 10 |  |
| 11 | private static final String DATABASE\_NAME="database.db"; |
| 12 | private static final int DATABASE\_VERSION=1; |
| 13 |  |
| 14 | private static final String TABLE\_STUDENT="\_student"; |
| 15 |  |
| 16 | private static final  String KEY\_ID="id"; |
| 17 | private static final  String KEY\_NAME="name"; |
| 18 | private static final  String KEY\_EMAIL="email"; |
| 19 | private static final  String KEY\_MOBILE="mobile"; |
| 20 |  |
| 21 | public DbHelper(Context context) { |
| 22 | super(context, DATABASE\_NAME, null,DATABASE\_VERSION); |
| 23 | } |
| 24 |  |
| 25 | @Override |
| 26 | public void onCreate(SQLiteDatabase db){ |
| 27 | String Query\_Table=" CREATE TABLE " +TABLE\_STUDENT+ "(" |
| 28 | +KEY\_ID+ " INTEGER PRIMARY KEY AUTOINCREMENT, " |
| 29 | +KEY\_NAME+ " TEXT, " +KEY\_EMAIL+ " TEXT, " +KEY\_MOBILE+ " TEXT);"; |
| 30 | db.execSQL(Query\_Table); |
| 31 | } |
| 32 |  |
| 33 | @Override |
| 34 | public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) { |
| 35 | db.execSQL("DROP TABLE IF EXISTS "+TABLE\_STUDENT); |
| 36 | onCreate(db); |
| 37 |  |
| 38 | } |
| 39 |  |
| 40 | public long insertStudent(String name, String email, String mobile) { |
| 41 | db=this.getWritableDatabase(); |
| 42 | ContentValues values=new ContentValues(); |
| 43 | values.put(KEY\_NAME,name); |
| 44 | values.put(KEY\_EMAIL,email); |
| 45 | values.put(KEY\_MOBILE,mobile); |
| 46 | return db.insert(TABLE\_STUDENT,null,values); |
| 47 | } |
| 48 |  |
| 49 | public String getData() { |
| 50 | db=this.getReadableDatabase(); |
| 51 | String[] columns=new String[] {KEY\_ID,KEY\_NAME,KEY\_EMAIL,KEY\_MOBILE}; |
| 52 | Cursor cursor=db.query(TABLE\_STUDENT,columns,null,null,null,null,null); |
| 53 |  |
| 54 | int iId= cursor.getColumnIndex(KEY\_ID); |
| 55 | int iName= cursor.getColumnIndex(KEY\_NAME); |
| 56 | int iEmail= cursor.getColumnIndex(KEY\_EMAIL); |
| 57 | int iMobile= cursor.getColumnIndex(KEY\_MOBILE); |
| 58 | String result=""; |
| 59 |  |
| 60 | for(cursor.moveToFirst(); !cursor.isAfterLast(); cursor.moveToNext()){ |
| 61 | result=result+ |
| 62 | "Id: "+cursor.getString(iId)+ "\n"+ |
| 63 | "Name: " +cursor.getString(iName)+"\n"+ |
| 64 | "Email: " +cursor.getString(iEmail)+ "\n"+ |
| 65 | "Mobile: "+cursor.getString(iMobile)+ "\n\n"; |
| 66 | } |
| 67 | db.close(); |
| 68 | return result; |
| 69 | } |
| 70 |  |
| 71 | public void deleteStudent(long l) { |
| 72 | db=this.getWritableDatabase(); |
| 73 | db.delete(TABLE\_STUDENT,KEY\_ID+"="+l,null); |
| 74 | } |
| 75 |  |
| 76 | public void updateStudent(long l, String name, String email, String mobile) { |
| 77 | db=this.getWritableDatabase(); |
| 78 | ContentValues values=new ContentValues(); |
| 79 | values.put(KEY\_NAME,name); |
| 80 | values.put(KEY\_EMAIL,email); |
| 81 | values.put(KEY\_MOBILE,mobile); |
| 82 | db.update(TABLE\_STUDENT,values,KEY\_ID+"="+l,null); |
| 83 | db.close(); |
| 84 | } |
| 85 |  |
| 86 | public String getName(long l1) { |
| 87 | db=this.getReadableDatabase(); |
| 88 | String[] columns=new String[]{KEY\_ID,KEY\_NAME,KEY\_EMAIL,KEY\_MOBILE}; |
| 89 | Cursor cursor=db.query(TABLE\_STUDENT,columns,KEY\_ID+"="+l1,null,null,null,null); |
| 90 | if(cursor!=null){ |
| 91 | cursor.moveToFirst(); |
| 92 | String name=cursor.getString(1); |
| 93 | return name; |
| 94 | } |
| 95 | return null; |
| 96 | } |
| 97 |  |
| 98 | public String getEmail(long l1) { |
| 99 | db=this.getReadableDatabase(); |
| 100 | String[] columns=new String[]{KEY\_ID,KEY\_NAME,KEY\_EMAIL,KEY\_MOBILE}; |
| 101 | Cursor cursor=db.query(TABLE\_STUDENT,columns,KEY\_ID+"="+l1,null,null,null,null); |
| 102 | if(cursor!=null){ |
| 103 | cursor.moveToFirst(); |
| 104 | String name=cursor.getString(2); |
| 105 | return name; |
| 106 | } |
| 107 | return null; |
| 108 | } |
| 109 |  |
| 110 | public String getMobile(long l1) { |
| 111 | db=this.getReadableDatabase(); |
| 112 | String[] columns=new String[]{KEY\_ID,KEY\_NAME,KEY\_EMAIL,KEY\_MOBILE}; |
| 113 | Cursor cursor=db.query(TABLE\_STUDENT,columns,KEY\_ID+"="+l1,null,null,null,null); |
| 114 | if(cursor!=null){ |
| 115 | cursor.moveToFirst(); |
| 116 | String name=cursor.getString(3); |
| 117 | return name; |
| 118 | } |
| 119 | return null; |
| 120 | } |
| 121 | } |
| 122 |  |

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| --- | --- |
| 1 | import androidx.appcompat.app.AppCompatActivity; |
| 2 |  |
| 3 | import android.os.Bundle; |
| 4 | import android.widget.TextView; |
| 5 |  |
| 6 | public class SecondActivity extends AppCompatActivity { |
| 7 |  |
| 8 |  |
| 9 | @Override |
| 10 | protected void onCreate(Bundle savedInstanceState) { |
| 11 | super.onCreate(savedInstanceState); |
| 12 | setContentView(R.layout.activity\_second); |
| 13 |  |
| 14 | TextView textView = findViewById(R.id.view\_data); |
| 15 |  |
| 16 | DbHelper db = new DbHelper(this); |
| 17 |  |
| 18 | String data = db.getData(); |
| 19 | textView.setText(data); |
| 20 | } |
| 21 | } |
| 22 |  |

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|  |  |
| --- | --- |
| 1 | import androidx.appcompat.app.AppCompatActivity; |
| 2 |  |
| 3 | import android.content.Intent; |
| 4 | import android.os.Bundle; |
| 5 | import android.view.View; |
| 6 | import android.widget.Button; |
| 7 | import android.widget.EditText; |
| 8 | import android.widget.Toast; |
| 9 |  |
| 10 |  |
| 11 | public class MainActivity extends AppCompatActivity implements View.OnClickListener{ |
| 12 |  |
| 13 | DbHelper db; |
| 14 |  |
| 15 | EditText editTextId ,editTextName ,editTextEmail ,editTextMobile; |
| 16 | Button buttonInsert, buttonView, buttonDelete,buttonUpdate, buttonSearch; |
| 17 |  |
| 18 | String id; |
| 19 | String name; |
| 20 | String email; |
| 21 | String mobile; |
| 22 |  |
| 23 | @Override |
| 24 | protected void onCreate(Bundle savedInstanceState) { |
| 25 | super.onCreate(savedInstanceState); |
| 26 | setContentView(R.layout.activity\_main); |
| 27 |  |
| 28 | editTextId = findViewById(R.id.edit\_id); |
| 29 | editTextName = findViewById(R.id.edit\_name); |
| 30 | editTextEmail = findViewById(R.id.edit\_email); |
| 31 | editTextMobile = findViewById(R.id.edit\_mobile); |
| 32 |  |
| 33 | buttonInsert = findViewById(R.id.button\_insert); |
| 34 | buttonView = findViewById(R.id.button\_view); |
| 35 | buttonDelete = findViewById(R.id.button\_delete); |
| 36 | buttonUpdate = findViewById(R.id.button\_update); |
| 37 | buttonSearch = findViewById(R.id.button\_search); |
| 38 |  |
| 39 | buttonInsert.setOnClickListener(this); |
| 40 | buttonView.setOnClickListener(this); |
| 41 | buttonDelete.setOnClickListener(this); |
| 42 | buttonUpdate.setOnClickListener(this); |
| 43 | buttonSearch.setOnClickListener(this); |
| 44 |  |
| 45 | db=new DbHelper(this); |
| 46 | } |
| 47 | @Override |
| 48 | public void onClick(View v) { |
| 49 |  |
| 50 | switch (v.getId()){ |
| 51 |  |
| 52 | case R.id.button\_insert: |
| 53 | name=editTextName.getText().toString(); |
| 54 | email=editTextEmail.getText().toString(); |
| 55 | mobile=editTextMobile.getText().toString(); |
| 56 | if(name.equals("") | email.equals("") | mobile.equals("")){ |
| 57 | Toast.makeText(this, "Please fill the Fields", Toast.LENGTH\_SHORT).show(); |
| 58 | }else { |
| 59 | db.insertStudent(name,email,mobile); |
| 60 | editTextId.setText(""); |
| 61 | editTextName.setText(""); |
| 62 | editTextEmail.setText(""); |
| 63 | editTextMobile.setText(""); |
| 64 | Toast.makeText(this, "saved successfully", Toast.LENGTH\_SHORT).show(); |
| 65 | } |
| 66 | break; |
| 67 |  |
| 68 | case R.id.button\_view: |
| 69 | Intent intent=new Intent(getApplicationContext(),SecondActivity.class); |
| 70 | startActivity(intent); |
| 71 | break; |
| 72 |  |
| 73 | case R.id.button\_delete: |
| 74 | id = editTextId.getText().toString(); |
| 75 | if(id.equals("")){ |
| 76 | Toast.makeText(this, "Plase fill the Id", Toast.LENGTH\_SHORT).show(); |
| 77 | }else { |
| 78 | long l = Long.parseLong(id); |
| 79 | db.deleteStudent(l); |
| 80 | editTextId.setText(""); |
| 81 | editTextName.setText(""); |
| 82 | editTextEmail.setText(""); |
| 83 | editTextMobile.setText(""); |
| 84 | Toast.makeText(this, "deleted successfully", Toast.LENGTH\_SHORT).show(); |
| 85 | } |
| 86 | break; |
| 87 |  |
| 88 | case R.id.button\_update: |
| 89 | id=editTextId.getText().toString().trim(); |
| 90 | name=editTextName.getText().toString(); |
| 91 | email=editTextEmail.getText().toString(); |
| 92 | mobile=editTextMobile.getText().toString(); |
| 93 | if(id.equals("") | name.equals("") | email.equals("") | mobile.equals("")){ |
| 94 | Toast.makeText(this, "Please fill all the fields", Toast.LENGTH\_SHORT).show(); |
| 95 | }else { |
| 96 | long l= Long.parseLong(id); |
| 97 | db.updateStudent(l,name,email,mobile); |
| 98 | editTextId.setText(""); |
| 99 | editTextName.setText(""); |
| 100 | editTextEmail.setText(""); |
| 101 | editTextMobile.setText(""); |
| 102 | Toast.makeText(this, "updated successfully", Toast.LENGTH\_SHORT).show(); |
| 103 | } |
| 104 | break; |
| 105 | case R.id.button\_search: |
| 106 | id=editTextId.getText().toString().trim(); |
| 107 | if(id.equals("")){ |
| 108 | Toast.makeText(this, "Please Fill the Id", Toast.LENGTH\_SHORT).show(); |
| 109 | }else { |
| 110 | try { |
| 111 | long l1= Long.parseLong(id); |
| 112 | name=db.getName(l1); |
| 113 | email=db.getEmail(l1); |
| 114 | mobile=db.getMobile(l1); |
| 115 |  |
| 116 | editTextName.setText(name); |
| 117 | editTextEmail.setText(email); |
| 118 | editTextMobile.setText(mobile); |
| 119 | Toast.makeText(this, "searched successfully", Toast.LENGTH\_SHORT).show(); |
| 120 |  |
| 121 | } |
| 122 | catch (Exception e) |
| 123 | { |
| 124 | Toast.makeText(this, "Id is not Available", Toast.LENGTH\_SHORT).show(); |
| 125 | } |
| 126 | } |
| 127 | break; |
| 128 | } |
| 129 | } |
| 130 | } |
| 131 |  |