**MOBILE APPLICATION DEVELOPMENT**

**(MAD)**

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ASSIGNMENT NO.8

# Assignment Name :Develop an application that makes use of database

Code For Manifest File :

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

<manifest *xmlns:android*="http://schemas.android.com/apk/res/android"

*package*="com.example.database\_2">

<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.Database\_2">

<activity *android:name*=".MainActivity">

<intent-filter>

<action *android:name*="android.intent.action.MAIN" />

<category *android:name*="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

# 

Code For XMl File : (activity\_main.xml)

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

<RelativeLayout *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:background*="#8DBBDF"

*android:padding*="10dp"

*tools:context*=".MainActivity">

<TextView

*android:id*="@+id/texttitle"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:layout\_marginTop*="20dp"

*android:text*="Please enter the details below"

*android:textSize*="24dp" />

<EditText

*android:id*="@+id/name"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:layout\_below*="@+id/texttitle"

*android:layout\_marginTop*="10dp"

*android:hint*="Name"

*android:inputType*="textPersonName"

*android:textSize*="24dp" />

<EditText

*android:id*="@+id/contact"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:layout\_below*="@+id/name"

*android:layout\_marginTop*="8dp"

*android:hint*="Pin Code"

*android:inputType*="number"

*android:textSize*="24dp" />

<EditText

*android:id*="@+id/dob"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:layout\_below*="@+id/contact"

*android:layout\_marginTop*="8dp"

*android:hint*="Phone No."

*android:inputType*="number"

*android:textSize*="24dp" />

<Button

*android:id*="@+id/btnInsert"

*android:layout\_width*="170dp"

*android:layout\_height*="62dp"

*android:layout\_below*="@id/dob"

*android:layout\_marginTop*="80dp"

*android:fontFamily*="serif"

*android:text*="Insert "

*android:textSize*="24dp"

*app:backgroundTint*="#C52323" />

<Button

*android:id*="@+id/btnUpdate"

*android:layout\_width*="240dp"

*android:layout\_height*="93dp"

*android:layout\_below*="@id/btnInsert"

*android:layout\_alignParentStart*="true"

*android:layout\_alignParentLeft*="true"

*android:layout\_alignParentEnd*="true"

*android:layout\_alignParentRight*="true"

*android:layout\_marginStart*="79dp"

*android:layout\_marginLeft*="79dp"

*android:layout\_marginTop*="15dp"

*android:layout\_marginEnd*="82dp"

*android:layout\_marginRight*="82dp"

*android:fontFamily*="serif"

*android:text*="Update Data"

*android:textSize*="24dp"

*app:backgroundTint*="#FFC107" />

<Button

*android:id*="@+id/btnDelete"

*android:layout\_width*="186dp"

*android:layout\_height*="63dp"

*android:layout\_below*="@id/btnUpdate"

*android:layout\_alignParentEnd*="true"

*android:layout\_alignParentRight*="true"

*android:layout\_marginStart*="36dp"

*android:layout\_marginLeft*="36dp"

*android:layout\_marginTop*="-169dp"

*android:layout\_marginEnd*="9dp"

*android:layout\_marginRight*="9dp"

*android:layout\_toEndOf*="@+id/btnInsert"

*android:layout\_toRightOf*="@+id/btnInsert"

*android:fontFamily*="serif"

*android:text*="Delete"

*android:textSize*="24dp"

*app:backgroundTint*="#8BC34A" />

<Button

*android:id*="@+id/btnView"

*android:layout\_width*="match\_parent"

*android:layout\_height*="wrap\_content"

*android:layout\_below*="@id/btnDelete"

*android:layout\_marginTop*="135dp"

*android:fontFamily*="serif"

*android:text*="View All"

*android:textSize*="24dp"

*app:backgroundTint*="#E91E63" />

</RelativeLayout>

Code For JAVA File : (MainActivity.java)

*package* com.example.database\_2;

*import* androidx.appcompat.app.AlertDialog;

*import* androidx.appcompat.app.AppCompatActivity;

*import* android.database.*Cursor*;

*import* android.os.Bundle;

*import* android.view.View;

*import* android.widget.Button;

*import* android.widget.EditText;

*import* android.widget.Toast;

*public class* MainActivity *extends* AppCompatActivity {

EditText name, contact, dob;

Button insert, update, delete, view;

DBHelper DB;

@Override

*protected void* onCreate(Bundle savedInstanceState) {

*super*.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

name = findViewById(R.id.*name*);

contact = findViewById(R.id.*contact*);

dob = findViewById(R.id.*dob*);

insert = findViewById(R.id.*btnInsert*);

update = findViewById(R.id.*btnUpdate*);

delete = findViewById(R.id.*btnDelete*);

view = findViewById(R.id.*btnView*);

DB = *new* DBHelper(*this*);

insert.setOnClickListener(*new* View.OnClickListener() {

@Override

*public void* onClick(View view) {

String nameTXT = name.getText().toString();

String contactTXT = contact.getText().toString();

String dobTXT = dob.getText().toString();

Boolean checkinsertdata = DB.insertuserdata(nameTXT, contactTXT, dobTXT);

*if*(checkinsertdata==*true*)

Toast.*makeText*(MainActivity.*this*, "New Entry Inserted", Toast.*LENGTH\_SHORT*).show();

*else*

Toast.*makeText*(MainActivity.*this*, "New Entry Not Inserted", Toast.*LENGTH\_SHORT*).show();

} });

update.setOnClickListener(*new* View.OnClickListener() {

@Override

*public void* onClick(View view) {

String nameTXT = name.getText().toString();

String contactTXT = contact.getText().toString();

String dobTXT = dob.getText().toString();

Boolean checkupdatedata = DB.updateuserdata(nameTXT, contactTXT, dobTXT);

*if*(checkupdatedata==*true*)

Toast.*makeText*(MainActivity.*this*, "Entry Updated", Toast.*LENGTH\_SHORT*).show();

*else*

Toast.*makeText*(MainActivity.*this*, "New Entry Not Updated", Toast.*LENGTH\_SHORT*).show();

} });

delete.setOnClickListener(*new* View.OnClickListener() {

@Override

*public void* onClick(View view) {

String nameTXT = name.getText().toString();

Boolean checkudeletedata = DB.deletedata(nameTXT);

*if*(checkudeletedata==*true*)

Toast.*makeText*(MainActivity.*this*, "Entry Deleted", Toast.*LENGTH\_SHORT*).show();

*else*

Toast.*makeText*(MainActivity.*this*, "Entry Not Deleted", Toast.*LENGTH\_SHORT*).show();

} });

view.setOnClickListener(*new* View.OnClickListener() {

@Override

*public void* onClick(View view) {

*Cursor* res = DB.getdata();

*if*(res.getCount()==0){

Toast.*makeText*(MainActivity.*this*, "No Entry Exists", Toast.*LENGTH\_SHORT*).show();

*return*;

}

StringBuffer buffer = *new* StringBuffer();

*while*(res.moveToNext()){

buffer.append("Name :"+res.getString(0)+"\n");

buffer.append("Contact :"+res.getString(1)+"\n");

buffer.append("Date of Birth :"+res.getString(2)+"\n\n");

}

AlertDialog.Builder builder = *new* AlertDialog.Builder(MainActivity.*this*);

builder.setCancelable(*true*);

builder.setTitle("User Entries");

builder.setMessage(buffer.toString());

builder.show();

}

});

}

}

Code For JAVA File : (DBhelper.java)

*package* com.example.database\_2;

*import* android.content.ContentValues;

*import* android.content.Context;

*import* android.database.*Cursor*;

*import* android.database.sqlite.SQLiteDatabase;

*import* android.database.sqlite.SQLiteOpenHelper;

*class* DBHelper *extends* SQLiteOpenHelper {

*public* DBHelper(Context context) {

*super*(context, "Userdata.db", *null*, 1);

}

@Override

*public void* onCreate(SQLiteDatabase DB) {

DB.execSQL("create Table Userdetails(name TEXT primary key, contact TEXT, dob TEXT)");

}

@Override

*public void* onUpgrade(SQLiteDatabase DB, *int* i, *int* i1) {

DB.execSQL("drop Table if exists Userdetails");

}

*public* Boolean insertuserdata(String name, String contact, String dob)

{

SQLiteDatabase DB = *this*.getWritableDatabase();

ContentValues contentValues = *new* ContentValues();

contentValues.put("name", name);

contentValues.put("contact", contact);

contentValues.put("dob", dob);

*long* result=DB.insert("Userdetails", *null*, contentValues);

*if*(result==-1){

*return false*;

}*else*{

*return true*;

}

}

*public* Boolean updateuserdata(String name, String contact, String dob) {

SQLiteDatabase DB = *this*.getWritableDatabase();

ContentValues contentValues = *new* ContentValues();

contentValues.put("contact", contact);

contentValues.put("dob", dob);

*Cursor* cursor = DB.rawQuery("Select \* from Userdetails where name = ?", *new* String[]{name});

*if* (cursor.getCount() > 0) {

*long* result = DB.update("Userdetails", contentValues, "name=?", *new* String[]{name});

*if* (result == -1) {

*return false*;

} *else* {

*return true*;

}

} *else* {

*return false*;

}}

*public* Boolean deletedata (String name)

{

SQLiteDatabase DB = *this*.getWritableDatabase();

*Cursor* cursor = DB.rawQuery("Select \* from Userdetails where name = ?", *new* String[]{name});

*if* (cursor.getCount() > 0) {

*long* result = DB.delete("Userdetails", "name=?", *new* String[]{name});

*if* (result == -1) {

*return false*;

} *else* {

*return true*;

}

} *else* {

*return false*;

}

}

*public Cursor* getdata ()

{

SQLiteDatabase DB = *this*.getWritableDatabase();

*Cursor* cursor = DB.rawQuery("Select \* from Userdetails", *null*);

*return* cursor;

}

}

SCREENSHOTS

 

 