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Java
package com.example.lab10;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  DatabaseHelper dbHelper;
  EditText nameEditText, messageEditText;
 Button submitButton, viewMessagesButton;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   dbHelper = new DatabaseHelper(this);
   nameEditText = findViewById(R.id.name);
   messageEditText = findViewByld(R.id.message);
   submitButton = findViewById(R.id.submit);
   viewMessagesButton = findViewByld(R.id.view_messages);
   submitButton.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
       String name = nameEditText.getText().toString();
       String message = messageEditText.getText().toString();
       if (name.isEmpty() || message.isEmpty()) {
         Toast.makeText(MainActivity.this, "Please fill all fields", Toast.LENGTH_SHORT).show();
       } else {
         boolean isInserted = dbHelper.insertData(name, message);
         if (isInserted) {
           Toast.makeText(MainActivity.this, "Message Sent", Toast.LENGTH_SHORT).show();
         } else {
          Toast.makeText(MainActivity.this, "Message Sending Failed",
Toast.LENGTH_SHORT).show();
        }
       }
     }
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});

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viewMessagesButton.setOnClickListener(new View.OnClickListener() {
     @Override
     public void onClick(View v) {
       Cursor cursor = dbHelper.getData();
       if (cursor.getCount() == 0) {
         Toast.makeText(MainActivity.this, "No Messages Found",
Toast.LENGTH_SHORT).show();
         return;
       }
       StringBuilder messages = new StringBuilder();
       while (cursor.moveToNext()) {
         messages.append("ID: ").append(cursor.getInt(0)).append("\n");
         messages.append("Name: ").append(cursor.getString(1)).append("\n");
         messages.append("Message: ").append(cursor.getString(2)).append("\n\n");
       Toast.makeText(MainActivity.this, messages.toString(), Toast.LENGTH_LONG).show();
     }
   });
 }
}
xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:padding="16dp">
  <EditText
   android:id="@+id/name"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Your Name" />
  <EditText
   android:id="@+id/message"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Your Message" />
  <Button
   android:id="@+id/submit"
```

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android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Send" />
 <Button
   android:id="@+id/view_messages"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="View Messages" />
</LinearLayout>
Java/com.example.lab10/DatabaseHelper
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:orientation="vertical"
 android:padding="16dp">
 <EditText
   android:id="@+id/name"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Your Name" />
 <EditText
   android:id="@+id/message"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"
   android:hint="Your Message" />
 <Button
   android:id="@+id/submit"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Send" />
 <Button
   android:id="@+id/view_messages"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="View Messages" />
</LinearLayout>
```