SENT EMAIL

AIM & ALGORITHM

AIM:

Design a android program to create a Sending E-mail and SMS using mobApp.

ALGORITHM:

- Step 1: Create a new project in Android Studio. Go to File -□New Project and fill all required details to create a new project.
- Step 2: Design a user interface that allows users to select the type of message they want to send (email or SMS)
- Step 3: Implement an authentication mechanism to verify users before allowing them to send messages.
- Step 4: Add the code to res/layout/activity_main.xml.
- Step 5: Allow users to compose the message with necessary formatting options such as text formatting, attachments, and multimedia content.
- Step 6: Add the Code to src/MainActivity.java
- Step 7: Implement the functionality to send the composed message via email or SMS, depending on the user's selection.
- Step 8: Add the code to androidManifest.xml

ACTIVITY_MAIN.XML

```
android:layout height="match parent"
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:id="@+id/emailTo"
   android:layout width="match parent"
   android:layout height="wrap content"
   android:inputType="textEmailAddress" />
<EditText
   android:id="@+id/emailSubject"
   android:layout height="wrap content"
   android:inputType="textMultiLine"
   android:id="@+id/sendEmailButton"
   android:layout width="wrap content"
   android:layout height="wrap content"
    android:text="Send Email" />
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout marginTop="16dp"
   android:text="Send Message"
<EditText
```

```
android:id="@+id/messagePhone"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Recipient Phone Number"
    android:inputType="phone" />

<EditText
    android:id="@+id/messageBody"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Message"
    android:inputType="textMultiLine"
    android:minLines="2" />

<Button
    android:id="@+id/sendMessageButton"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Send Message" />

</LinearLayout>
</LinearLayout>
```

MAINACTIVITY.JAVA

```
import android.content.Intent;
import android.os.Bundle;
import android.telephony.SmsManager;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.ActivityCompat;
import androidx.core.content.pm.PackageManager;
import androidx.core.content.ContextCompat;

public class MainActivity extends AppCompatActivity {
    private EditText emailTo, emailSubject, emailBody, messagePhone,
    messageBody;
    private static final int SMS_PERMISSION_CODE = 100;

@Override
    public void onCreate(Bundle savedInstanceState) {
```

```
super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
      emailTo = findViewById(R.id.emailTo);
      emailSubject = findViewById(R.id.emailSubject);
      emailBody = findViewById(R.id.emailBody);
      messagePhone = findViewById(R.id.messagePhone);
      messageBody = findViewById(R.id.messageBody);
      Button sendMessageButton = findViewById(R.id.sendMessageButton);
               String to = emailTo.getText().toString();
               String subject = emailSubject.getText().toString();
              String body = emailBody.getText().toString();
               if (to.isEmpty() || subject.isEmpty() || body.isEmpty()) {
                   Toast.makeText(MainActivity.this, "Please fill all email
               Intent emailIntent = new Intent(Intent.ACTION SEND);
               emailIntent.setType("message/rfc822");
               emailIntent.putExtra(Intent.EXTRA EMAIL, new String[]{to});
                   startActivity(Intent.createChooser(emailIntent, "Send
               } catch (Exception e) {
                  Toast. make Text (Main Activity. this, "No email app found",
Toast.LENGTH SHORT).show();
       sendMessageButton.setOnClickListener(new View.OnClickListener() {
               String phone = messagePhone.getText().toString();
               String message = messageBody.getText().toString();
```

```
if (phone.isEmpty() || message.isEmpty()) {
fields", Toast.LENGTH SHORT).show();
               if (ContextCompat.checkSelfPermission(MainActivity.this,
android.Manifest.permission.SEND SMS)
                   ActivityCompat.requestPermissions (MainActivity.this,
SMS PERMISSION CODE);
                   sendSMS(phone, message);
  public void onRequestPermissionsResult(int requestCode, @NonNull String[]
permissions, @NonNull int[] grantResults) {
       super.onRequestPermissionsResult(requestCode, permissions,
grantResults);
PackageManager.PERMISSION GRANTED) {
              String phone = messagePhone.getText().toString();
              String message = messageBody.getText().toString();
               sendSMS(phone, message);
Toast.LENGTH SHORT).show();
           SmsManager smsManager = SmsManager.getDefault();
           smsManager.sendTextMessage(phone, null, message, null, null);
          Toast.makeText(this, "Message sent", Toast.LENGTH SHORT).show();
       } catch (Exception e) {
Toast.LENGTH SHORT).show();
```

ANDROIDMAINFEST.XML

OUTPUT

