

Ex. No. : 08b

Date:

Register No.: 221701029

Name: Keerthana V

Send Email

Aim

Develop an application to send Email.

Procedure:

1. Create a new Android project in Android Studio with an empty activity.
2. Design activity_main.xml with three EditText fields (To, Subject, Message) and one Button ("Send Email").
3. In MainActivity.java, initialize the EditText and Button views using findViewById().
4. Set an onClickListener for the "Send Email" button.
5. Inside the click listener, retrieve text from the EditText fields.
6. Create an Intent of type Intent.ACTION_SEND.
7. Set the data type to "message/rfc822" to ensure email apps handle the intent.
8. Put email address, subject, and message into the intent using putExtra().
9. Use startActivity(Intent.createChooser(intent, "Choose an Email client")) to send the email.
10. Test the app on a real device with email apps installed.

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Ex8b"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```



Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="16dp"
    android:orientation="vertical">

    <EditText
        android:id="@+id/editTextEmail"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Recipient Email"
        android:inputType="textEmailAddress"/>

    <EditText
        android:id="@+id/editTextSubject"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Subject"/>

    <EditText
        android:id="@+id/editTextMessage"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Message"
        android:minLines="5"
        android:gravity="top"
        android:inputType="textMultiLine"/>

    <Button
        android:id="@+id/buttonSend"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Send Email"
        android:layout_marginTop="16dp"/>

</LinearLayout>
```

MainActivity.kt

```
package com.example.ex8b
import android.content.Intent
import android.net.Uri
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast

class MainActivity : AppCompatActivity() {

    private lateinit var editTextEmail: EditText
    private lateinit var editTextSubject: EditText
    private lateinit var editTextMessage: EditText
    private lateinit var buttonSend: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        editTextEmail = findViewById(R.id.editTextEmail)
        editTextSubject = findViewById(R.id.editTextSubject)
        editTextMessage = findViewById(R.id.editTextMessage)
        buttonSend = findViewById(R.id.buttonSend)

        buttonSend.setOnClickListener {
            sendEmail()
        }
    }

    private fun sendEmail() {
        val recipient = editTextEmail.text.toString()
        val subject = editTextSubject.text.toString()
        val message = editTextMessage.text.toString()

        if (recipient.isEmpty() || subject.isEmpty() || message.isEmpty()) {
            Toast.makeText(this, "Please fill all fields", Toast.LENGTH_SHORT).show()
            return
        }

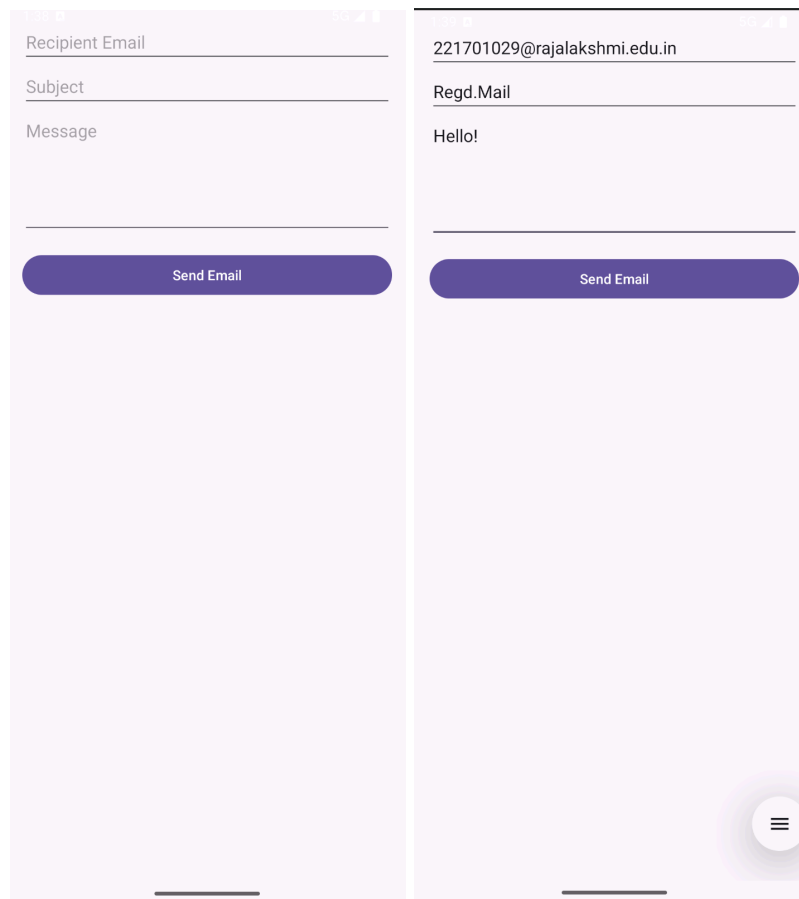
        val intent = Intent(Intent.ACTION_SENDTO).apply {
            data = Uri.parse("mailto:") // only email apps should handle this
```



```
        putExtra(Intent.EXTRA_EMAIL, arrayOf(recipient))
        putExtra(Intent.EXTRA_SUBJECT, subject)
        putExtra(Intent.EXTRA_TEXT, message)
    }

    if (intent.resolveActivity(packageManager) != null) {
        startActivity(intent)
    } else {
        Toast.makeText(this, "No email client installed.",
            Toast.LENGTH_SHORT).show()
    }
}
}
```

Output



Result:

The application successfully sends an email using the user's preferred email client through a simple Android interface.

