

Ex No: 12
Date:

MOBILE APPLICATION TO SEND EMAIL

AIM:

To design and develop a front-end Android application that allows users to compose and send emails by collecting user input for recipient address, subject, and message, and providing a user-friendly interface with validation and interaction handling.

ALGORITHM:

1. Setup UI:

1. Add `EditText` for **To**, **Subject**, and **Body**.
2. Add a **Send** button.

2. Button Click Logic:

1. On button click, validate inputs (check empty fields & email format).

3. Send Email via Intent:

1. Create an `Intent(Intent.ACTION_SEND)`.
2. Set type to `"message/rfc822"`.
3. Add extras:
 1. `Intent.EXTRA_EMAIL` → **Recipient(s)**
 2. `Intent.EXTRA_SUBJECT` → **Subject**
 3. `Intent.EXTRA_TEXT` → **Body**
4. Launch intent with `startActivity(Intent.createChooser())`.

4. Error Handling:

1. Catch `ActivityNotFoundException` (if no email app is installed).
2. Show `Toast` on success/failure.

5. Testing:

1. Test with valid/invalid emails.
2. Check offline/online behavior.
3. Verify on different Android versions.

CODE:

KOTLIN:

```
//Main Activity
package com.example.emailsender

import android.content.Intent
import android.net.Uri
import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity
import android.widget.Button
import com.example.emailsender.R
class MainActivity : AppCompatActivity() {
```

```

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

            val sendEmailBtn =
                findViewById<Button>(R.id.sendEmailBtn)
            sendEmailBtn.setOnClickListener {
                val recipient = arrayOf("recipient@example.com") //
                Replace with actual email
                val subject = "Hello from my app"
                val body = "This is a test email sent from my
                Android app."

                val intent = Intent(Intent.ACTION_SENDTO).apply {
                    data = Uri.parse("mailto:") // Only email apps
                    should handle this
                    putExtra(Intent.EXTRA_EMAIL, recipient)
                    putExtra(Intent.EXTRA_SUBJECT, subject)
                    putExtra(Intent.EXTRA_TEXT, body)
                }

                if (intent.resolveActivity(packageManager) != null)
                {
                    startActivity(intent)
                }
            }
        }
    }
}

```

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:orientation="vertical"
    android:gravity="center"
    android:padding="16dp">

    <Button
        android:id="@+id/sendEmailBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Send Email" />
</LinearLayout>

```

OUTPUT:



To

Subject

Message

Send

RESULT:

Thus, the above experiment for designing the front-end of an Email Sending App using Android Studio has been successfully created and implemented.