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 \rightarrow Recipient(s)
 - 2. Intent.EXTRA SUBJECT \rightarrow Subject
 - 3. Intent.EXTRA TEXT \rightarrow 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:

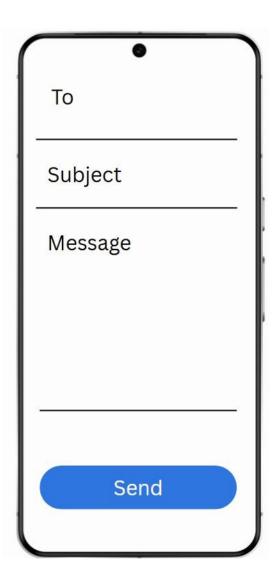
KOTLIN:

```
//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)
            }
        }
```

OUTPUT:



RESULT:

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