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:

- **Setup UI:**

  - Add `EditText` for **To**, **Subject**, and **Body**.

  - Add a **Send** button.

- **Button Click Logic:**

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

- **Send Email via Intent:**

  - Create an `Intent(Intent.ACTION_SEND).`

  - Set type to `"message/rfc822"`.

  - Add extras:

    - `Intent.EXTRA_EMAIL` → Recipient(s)

    - `Intent.EXTRA_SUBJECT` → Subject

    - `Intent.EXTRA_TEXT` → Body

  - Launch intent with `startActivity(Intent.createChooser()).`

- **Error Handling:**

  - Catch `ActivityNotFoundException` (if no email app is installed).

  - Show Toast on success/failure.

- 5. **Testing:**
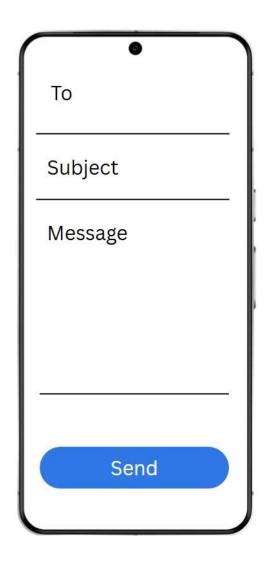
  - Test with valid/invalid emails.

- Check offline/online behavior.

- Verify on different Android versions.

CODE:
KOTLIN:
```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
<?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:

RESULT:

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