

## **MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT**

### **EX-8B SEND EMAIL**

#### **AIM:**

To send an E-mail.

#### **PROCEDURE:**

##### **Step 1:**

- Go to File → New Project
- Enter the application name (e.g., *Email Sender*) and click Next.

##### **Step 2: Select the target Android devices**

- Choose the Minimum SDK version (API 21 or above recommended) and click Next.

##### **Step 3: Design the User Interface**

- Select Empty Activity and proceed by clicking Next.

##### **Step 4: Configure the activity**

- Provide the Activity Name (e.g., MainActivity) and layout name (e.g., activity\_main). Then click Finish.

##### **Step 5: Handle Runtime Permissions**

- Add EditTexts for phone number and message input
- Add a Button to send Email
- Use Email in the backend code
- Don't forget to request SEND\_Email permission in the manifest and at runtime.

##### **Step 6: Run the Application**

- Using a physical Android device with Email capabilities

## MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT

### EX-8B SEND EMAIL

#### CODE:

##### *AndroidManifest.xml :*

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

    <application
        android:allowBackup="true"
        android:label="Email Sender"
        android:icon="@mipmap/ic_launcher"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.EmailApp">
        <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>
```

## MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT

### EX-8B SEND EMAIL

*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="20dp"
    android:orientation="vertical">

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

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

    <EditText
        android:id="@+id/messageInput"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

## MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT

### EX-8B SEND EMAIL

```
android:hint="Message"
android:inputType="textMultiLine"
android:minLines="4"
android:gravity="top" />
```

```
<Button
    android:id="@+id/sendButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Send Email"
    android:layout_marginTop="20dp" />
</LinearLayout>
```

#### ***MainActivity.kt :***

```
package com.example.emailapp

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() {
```

## **MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT**

### **EX-8B SEND EMAIL**

```
private lateinit var emailInput: EditText
private lateinit var subjectInput: EditText
private lateinit var messageInput: EditText
private lateinit var sendButton: Button

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

    emailInput = findViewById(R.id.emailInput)
    subjectInput = findViewById(R.id.subjectInput)
    messageInput = findViewById(R.id.messageInput)
    sendButton = findViewById(R.id.sendButton)

    sendButton.setOnClickListener {
        sendEmail()
    }
}

private fun sendEmail() {
    val recipient = emailInput.text.toString().trim()
    val subject = subjectInput.text.toString().trim()
    val message = messageInput.text.toString().trim()

    if (recipient.isEmpty() || subject.isEmpty() || message.isEmpty()) {
```

## **MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT**

### **EX-8B SEND EMAIL**

```
Toast.makeText(this, "All fields are required", Toast.LENGTH_SHORT).show()

    return
}

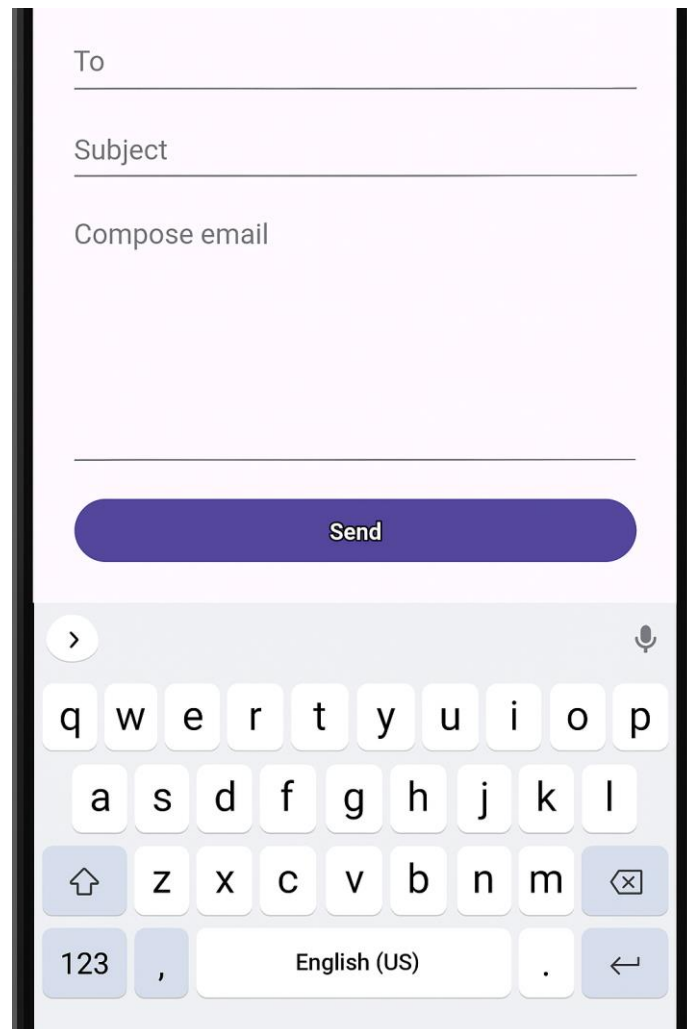
val emailIntent = Intent(Intent.ACTION_SENDTO).apply {
    data = Uri.parse("mailto:")
    putExtra(Intent.EXTRA_EMAIL, arrayOf(recipient))
    putExtra(Intent.EXTRA_SUBJECT, subject)
    putExtra(Intent.EXTRA_TEXT, message)
}

if (emailIntent.resolveActivity(packageManager) != null) {
    startActivity(emailIntent)
} else {
    Toast.makeText(this, "No email app available",
Toast.LENGTH_SHORT).show()
}
}
}
```

## **MOBILE APPLICATION & DEVELOPMENT ASSIGNMENT**

### **EX-8B SEND EMAIL**

#### **OUTPUT IMAGE:**



#### **RESULT:**

The application has been successfully developed using Kotlin and android studio.