

#### **Main XML**

```
app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="94dp"
    android:layout_marginTop="61dp"
    android:hint="Address"
    android:inputType="textPersonName"
    android:minHeight="48dp"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_marginStart="148dp"
    android:layout_marginStart="148dp"
    android:layout_marginEnd="148dp"
    android:text="Exit"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

#### Main Java:

```
package com.example.getlatitudelongitude;
import androidx.appcompat.app.AppCompatActivity;
import android.location.Address;
import android.location.Geocoder;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import java.io.IOException;
import java.io.IOException;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    private EditText editText;
    private TextView textView;

    @Override
    protected void onCreate (Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        editText = findViewById(R.id.editTextTextPersonName);
        textView = findViewById(R.id.textView);
```

```
public void buttonGetLocation (View view) {
    Geocoder geocoder = new Geocoder(this);
    List<Address> addressList;

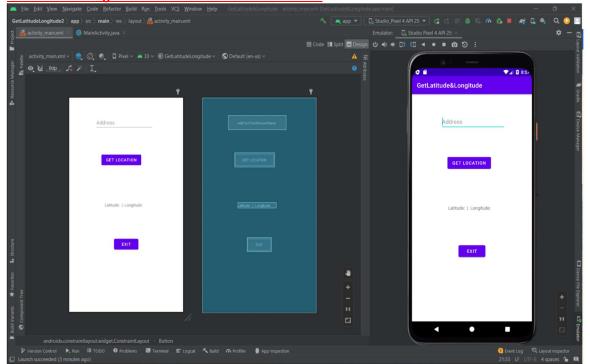
    try {
        addressList =
        geocoder.getFromLocationName(editText.getText().toString(), 1);

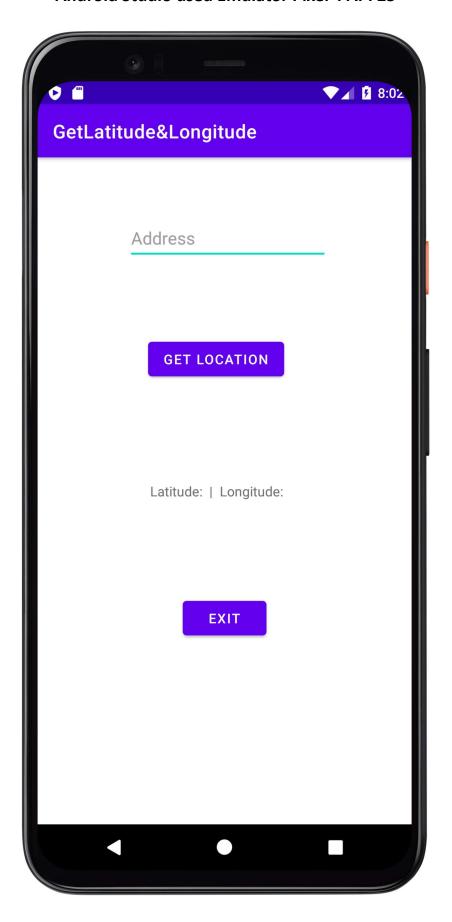
        if (addressList != null) {
            double doubleLat = addressList.get(0).getLatitude();
            double doubleLong = addressList.get(0).getLongitude();

            textView.setText("Latitude: " + String.valueOf(doubleLat) + " | " + "Longitude: " + String.valueOf(doubleLong));
      }

    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

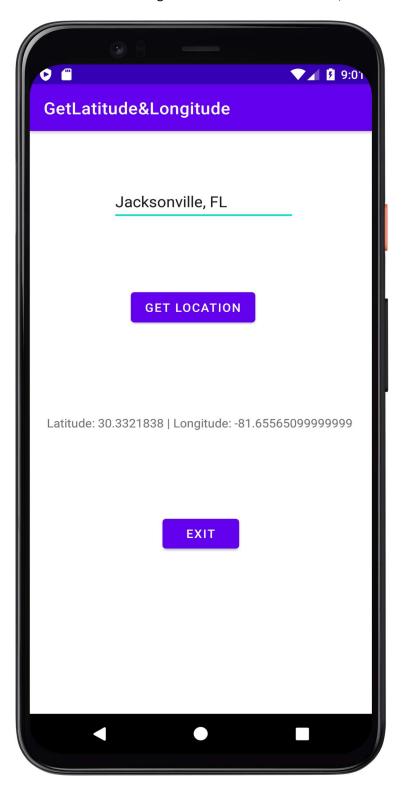
#### Outcome - Design & Studio Emulator Pixel 4 API 25:





### **Performed Test:**

- Successful Test
- Auto populated the Latitude and Longitude for location Jacksonville, FL



- Clicked Exit
- Android Main page.



Click the upper arrow.



• Displays all Android Applications.



• Click any desired application – example Camera.



Click the left arrow to take you to the main applications.

