

Выполнил: Войтенко Данил

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
    <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
    <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
    <uses-permission android:name="android.permission.INTERNET"/>
```

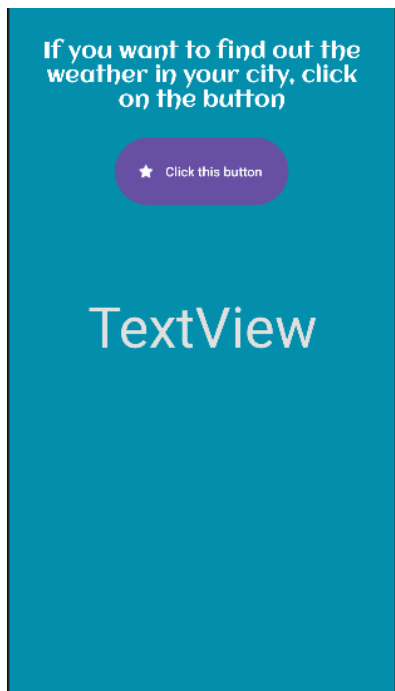
Здесь добавлены разрешения на получение местоположения и подключения к интернету

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#038FAC"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/text"
        android:layout_width="341dp"
        android:layout_height="80dp"
        android:layout_marginTop="28dp"
        android:fontFamily="@font/acronica"
        android:text="If you want to find out the weather in your city, click on the button"
        android:textAlignment="center"
        android:textAllCaps="false"
        android:textColor="#FFFFFF"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.493"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
    android:layout_height="80dp"
    android:text="Click this button"
    app:icon="@android:drawable/btn_star_big_on"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/text"
    app:layout_constraintVertical_bias="0.048" />

<TextView
    android:id="@+id/textView"
    android:layout_width="403dp"
    android:layout_height="509dp"
    android:paddingTop="80sp"
    android:text="TextView"
    android:textAlignment="center"
    android:textColor="#E0E0E0"
    android:textSize="60sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/button" />
```



вот так выглядит программа

Далее код MainActivity

```
import android.Manifest
import android.annotation.SuppressLint
import android.content.pm.PackageManager
import android.location.Location
import android.os.Bundle
import android.widget.Button
import android.widget.TextView
import android.widget.Toast
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.app.ActivityCompat
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import com.android.volley.Request
import com.android.volley.toolbox.StringRequest
import com.android.volley.toolbox.Volley
import com.google.android.gms.location.FusedLocationProviderClient
import com.google.android.gms.location.LocationServices
import org.json.JSONObject

class MainActivity : AppCompatActivity() {
    private val api_key = "218b8f40bf2a378358355de05f08c199"
    private lateinit var btVar1: Button
    private lateinit var textView: TextView
    private lateinit var fusedLocationClient: FusedLocationProviderClient
    private val LOCATION_PERMISSION_REQUEST_CODE = 1
```

Это все импорты, которые мне нужны для работы приложения

```

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

    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
        val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
        v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
    }

    textView = findViewById(R.id.text)
    btVar1 = findViewById(R.id.button)

    fusedLocationClient = LocationServices.getFusedLocationProviderClient( activity: this)
    btVar1.setOnClickListener{
        checkForPermission()
    }
}

private fun checkForPermission() {
    if (ActivityCompat.checkSelfPermission( context: this,
        Manifest.permission.ACCESS_FINE_LOCATION) !=
        PackageManager.PERMISSION_GRANTED &&
        ActivityCompat.checkSelfPermission( context: this,
            Manifest.permission.ACCESS_COARSE_LOCATION) !=
            PackageManager.PERMISSION_GRANTED) {

```

```

        ActivityCompat.requestPermissions( activity: this,
            arrayOf(Manifest.permission.ACCESS_FINE_LOCATION,
                Manifest.permission.ACCESS_COARSE_LOCATION),
                LOCATION_PERMISSION_REQUEST_CODE)
    } else {
        obtainLocation()
    }
}

override fun onRequestPermissionsResult(requestCode: Int, permissions:
Array<out String>, grantResults: IntArray) {
    super.onRequestPermissionsResult(requestCode, permissions,
        grantResults)
    if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
        if ((grantResults.isNotEmpty() && grantResults[0] ==
            PackageManager.PERMISSION_GRANTED)) {
            obtainLocation()
        } else {
            Toast.makeText( context: this, text: "Разрешение отклонено",
                Toast.LENGTH_SHORT).show()
        }
    }
}

@SuppressLint("MissingPermission") private fun obtainLocation() {
    fusedLocationClient.lastLocation.addOnSuccessListener { location: Location? ->

```

```

fusedLocationClient.lastLocation.addOnSuccessListener { location: Location? ->
    if (location != null) {
        val weatherUrl = "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&appid=${API_KEY}"
        getTemp(weatherUrl)
    } else {
        Toast.makeText(context, "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
    }
}

.addOnFailureListener { exception ->
    Toast.makeText(context, "Location Permission not granted", Toast.LENGTH_SHORT).show()
}
}

private fun getTemp(url: String) {
    val queue = Volley.newRequestQueue(context)
    val stringReq = StringRequest(
        Request.Method.GET, url, { response ->
            val obj = JSONObject(response)
            val main: JSONObject = obj.getJSONObject("main")
            val temperature = main.getString("temp")
            println(temperature)
            val city = obj.getString("name")
            println(city)
            textView.text = "${temperature} Градусов по цельсию в ${city}"
            System.out.println(obj.toString())
        },
    ),
}

```

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private fun getTemp(url: String) {
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            val obj = JSONObject(response)
            val main: JSONObject = obj.getJSONObject("main")
            val temperature = main.getString("temp")
            println(temperature)
            val city = obj.getString("name")
            println(city)
            textView.text = "${temperature} Градусов по цельсию в ${city}"
            System.out.println(obj.toString())
        },
        { textView.text = "Ошибка!" })
    queue.add(stringReq)
}

```

Пример работы

22:15 | 0,0 КБ/с



**If you want to find out
the weather in your city,
click on the button**

★ Click this button

**-13.63 Degrees Celsius
in Blagoveshchensk**

