

Практика номер 11 Кирюшкин Артём ИС221

```
activity_main.xml x AndroidManifest.xml MainActivity.kt strings.xml colors.xml build.gradle.kts (app)

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     tools:context=".MainActivity">
9     <ImageView
10         android:background="@drawable/i"
11         android:layout_width="wrap_content"
12         android:layout_height="wrap_content"/>
13     <TextView
14         android:id="@+id/textF"
15         android:layout_width="wrap_content"
16         android:layout_height="wrap_content"
17         android:text="Текстура temporary"
18         android:textColor="#FFFFFF"
19         android:textSize="30sp"
20         android:textAlignment="center"
21         android:layout_marginTop="50dp"
22         android:paddingHorizontal="20dp"
23         app:layout_constraintEnd_toEndOf="parent"
24         app:layout_constraintStart_toStartOf="parent"
25         app:layout_constraintTop_toTopOf="parent" />
26     <Button
27         android:id="@+id/btVar1"
28         android:layout_width="wrap_content"
29         android:layout_height="wrap_content"
30         android:clickable="true"
31         android:focusable="true"
32         android:text="YahaTo norogv"
33         android:textColor="#FFFFFF"
34         android:textSize="30sp"
35         app:layout_constraintBottom_toBottomOf="parent"
36         app:layout_constraintEnd_toEndOf="parent"
37         app:layout_constraintStart_toStartOf="parent"
38         app:layout_constraintTop_toTopOf="parent" />
39 </androidx.constraintlayout.widget.ConstraintLayout>
```

```
activity_main.xml x AndroidManifest.xml MainActivity.kt strings.xml colors.xml build.gradle.kts (app)

1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:tools="http://schemas.android.com/tools">
4     <uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"/>
5     <uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>
6     <uses-permission android:name="android.permission.INTERNET"/>
7     <permission android:name="android.permission.ACCESS_COARSE_LOCATION"
8         tools:ignore="ReservedSystemPermission" />
9     <permission android:name="android.permission.ACCESS_FINE_LOCATION"
10         tools:ignore="ReservedSystemPermission" />
11     <application
12         android:allowBackup="true"
13         android:dataExtractionRules="@xml/data_extraction_rules"
14         android:fullBackupContent="@xml/backup_rules"
15         android:icon="@mipmap/ic_launcher"
16         android:label="@string/app_name"
17         android:roundIcon="@mipmap/ic_launcher_round"
18         android:supportRtl="true"
19         android:theme="@style/Theme.Ex11"
20         tools:targetApi="31">
21         <activity
22             android:name=".MainActivity"
23             android:exported="true">
24             <intent-filter>
25                 <action android:name="android.intent.action.MAIN" />
26                 <category android:name="android.intent.category.LAUNCHER" />
27             </intent-filter>
28         </activity>
29     </application>
30 </manifest>
```

```
activity_main.xml  AndroidManifest.xml  MainActivity.kt  strings.xml  colors.xml  build.gradle.kts (:app)

1 package com.onlylose.ex11
2
3 > import ...
22
23 class MainActivity : AppCompatActivity() {
24     var api_key = "beefd5b705d9d0547e721001a724d9dd"
25     private lateinit var btVar1: Button
26     private lateinit var textView: TextView
27     private lateinit var fusedLocationClient: FusedLocationProviderClient
28     private val LOCATION_PERMISSION_REQUEST_CODE = 1
29     @SuppressWarnings("MissingInflatedId")
30     override fun onCreate(savedInstanceState: Bundle?) {
31         super.onCreate(savedInstanceState)
32         enableEdgeToEdge()
33         setContentView(R.layout.activity_main)
34
35         textView = findViewById(R.id.textF)
36         btVar1 = findViewById(R.id.btVar1)
37         fusedLocationClient =
38             LocationServices.getFusedLocationProviderClient(this)
39         btVar1.setOnClickListener {
40             checkForPermission()
41         }
42     }
43
44     private fun checkForPermission() {
45         if (ActivityCompat.checkSelfPermission(context: this,
46             Manifest.permission.ACCESS_FINE_LOCATION) !=
47             PackageManager.PERMISSION_GRANTED &&
48             ActivityCompat.checkSelfPermission(context: this,
49                 Manifest.permission.ACCESS_COARSE_LOCATION) !=
```

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23 class MainActivity : AppCompatActivity() {
44     private fun checkForPermission() {
45         ActivityCompat.checkSelfPermission(context: this,
46             Manifest.permission.ACCESS_COARSE_LOCATION) !=
47             PackageManager.PERMISSION_GRANTED) {
48             ActivityCompat.requestPermissions(activity: this,
49                 arrayOf(Manifest.permission.ACCESS_FINE_LOCATION,
50                     Manifest.permission.ACCESS_COARSE_LOCATION),
51                 LOCATION_PERMISSION_REQUEST_CODE)
52         } else {
53             obtainLocation()
54         }
55     }
56
57     override fun onRequestPermissionsResult(requestCode: Int, permissions:
58         Array<out String>, grantResults: IntArray) {
59         super.onRequestPermissionsResult(requestCode, permissions,
60             grantResults)
61         if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
62             if ((grantResults.isNotEmpty() && grantResults[0] ==
63                 PackageManager.PERMISSION_GRANTED)) {
64                 obtainLocation()
65             } else {
66                 Toast.makeText(context: this, text: "Разрешение отклонено",
67                     Toast.LENGTH_SHORT).show()
68             }
69         }
70     }
71
72     @SuppressWarnings("MissingPermission")
73     private fun obtainLocation() {
74         fusedLocationClient.lastLocation
```

```
activity_main.xml  AndroidManifest.xml  MainActivity.kt  strings.xml  colors.xml  build.gradle.kts (app)

23 class MainActivity : AppCompatActivity() {
75     private fun obtainLocation() {
76         fusedLocationClient.lastLocation
77         .addOnSuccessListener { location: Location? ->
78             if (location != null) {
79                 val weatherUrl =
80                     "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&appid=${api_key}"
81                 getTemp(weatherUrl)
82             } else {
83                 Toast.makeText(context, this, text: "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
84             }
85         }
86         .addOnFailureListener {
87             Toast.makeText(context, this, text: "Location Permission not granted",
88                 Toast.LENGTH_SHORT).show()
89         }
90     }
91     private fun getTemp(url: String) {
92         val queue = Volley.newRequestQueue(context, this)
93         val stringReq = StringRequest(
94             Request.Method.GET, url, { response ->
95                 val obj = JSONObject(response)
96                 val main: JSONObject = obj.getJSONObject("main")
97                 val temperature = main.getString("temp")
98                 println(temperature)
99                 val city = obj.getString("name")
100                 println(city)
101                 textView.text = "${temperature} градусов по цельсию в ${city}"
102                 System.out.println(obj.toString())
103             },
104             { textView.text = "Ошибка!" })
```

```
37
38 dependencies {
39     implementation(libs.play.services.location)
40     implementation(libs.volley)
41     implementation(libs.androidx.core.ktx)
42     implementation(libs.androidx.appcompat)
43     implementation(libs.material)
44     implementation(libs.androidx.activity)
45     implementation(libs.androidx.constraintlayout)
46     testImplementation(libs.junit)
47     androidTestImplementation(libs.androidx.junit)
48     androidTestImplementation(libs.androidx.espresso.core)
49 }
```