

Лаболоторная 11

MainActivity.kt

```
modules.xml x MainActivity.kt x activity_main.xml
1 package com.example.a11_android
2
3 > import ...
22
23 class MainActivity : AppCompatActivity() {
24     private val apiKey = "189c40d739ecafd704aa947c5d225caa"
25
26     private lateinit var btVar1: Button
27     private lateinit var textView: TextView
28     private lateinit var fusedLocationClient: FusedLocationProviderClient
29
30     private val LOCATION_PERMISSION_REQUEST_CODE = 1
31
32     override fun onCreate(savedInstanceState: Bundle?) {
33         super.onCreate(savedInstanceState)
34         setContentView(R.layout.activity_main)
35
36         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
37             val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
38             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
39             insets
40         }
41
42         textView = findViewById(R.id.textView)
43         btVar1 = findViewById(R.id.btVar1)
44
45         fusedLocationClient = LocationServices.getFusedLocationProviderClient(this)
46
47         btVar1.setOnClickListener {
48             checkForPermission()
49         }
50     }
51
52     private fun checkForPermission() {
53         if (ActivityCompat.checkSelfPermission(context, Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED &&
54             ActivityCompat.checkSelfPermission(context, Manifest.permission.ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED) {
55             ActivityCompat.requestPermissions(this,
56                 arrayOf(Manifest.permission.ACCESS_FINE_LOCATION, Manifest.permission.ACCESS_COARSE_LOCATION),
57                 LOCATION_PERMISSION_REQUEST_CODE)
58         } else {
59             obtainLocation()
60         }
61     }
62 }
```

```
MainActivity.kt x activity_main.xml
23 class MainActivity : AppCompatActivity() {
24     override fun onRequestPermissionsResult(requestCode: Int, permissions: Array<out String>, grantResults: IntArray) {
25         if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
26             if (grantResults.isNotEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
27                 obtainLocation()
28             } else {
29                 Toast.makeText(this, "Разрешение отклонено", Toast.LENGTH_SHORT).show()
30             }
31         }
32     }
33
34     @SuppressWarnings("MissingPermission")
35     private fun obtainLocation() {
36         fusedLocationClient.requestLocationUpdates(
37             LocationRequest.PASSTHROUGH_OPTIONAL,
38             null,
39             LocationRequest.PRIORITY_HIGH_ACCURACY,
40             object : LocationCallback() {
41                 override fun onLocationAvailable(location: Location?) {
42                     if (location != null) {
43                         val weatherUrl = "https://api.openweathermap.org/data/2.5/weather?lat=${location.latitude}&lon=${location.longitude}&units=metric&appid=$apiKey"
44                         getTemp(weatherUrl)
45                     } else {
46                         Toast.makeText(this, "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
47                     }
48                 }
49             }
50         )
51         .addOnSuccessListener {
52             Toast.makeText(this, "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
53         }
54         .addOnFailureListener {
55             Toast.makeText(this, "Не удалось получить местоположение", Toast.LENGTH_SHORT).show()
56         }
57     }
58
59     private fun getTemp(url: String) {
60         val queue = Volley.newRequestQueue(this)
61
62         val stringReq = StringRequest(
63             Request.Method.GET, url, { response ->
64                 val obj = JSONObject(response)
65                 val main = obj.getJSONObject("main")
66                 val temperature = main.getString("temp")
67                 val humidity = main.getString("humidity")
68                 val city = obj.getString("name")
69
70                 textView.text = "${temperature} °C, влажность ${humidity}% в ${city}"
71             },
72             { textView.text = "Ошибка!" }
73         )
74         queue.add(stringReq)
75     }
76 }
```

activity_main.xml

