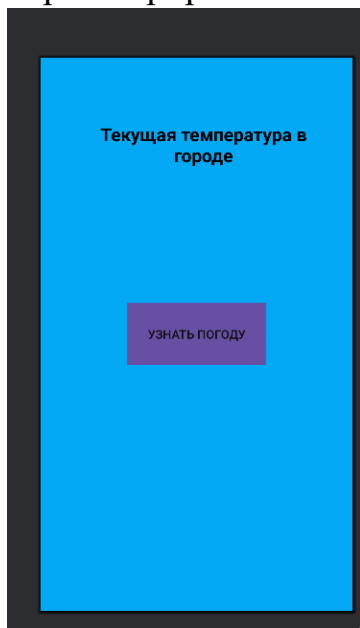


Практическая работа 11. Духаниной Яна ИС222

1. Зарегистрировалась на сайте. Нашла свой IP код



2. Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="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="#03A9F4"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="307dp"
        android:layout_height="129dp"
        android:gravity="center"
        android:text="Текущая температура в городе"
        android:textColor="@color/black"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.586"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.084" />
```

```

<Button
    android:id="@+id/btVar1"
    android:layout_width="183dp"
    android:layout_height="82dp"
    android:background="@drawable/rounded_button"
    android:text="УЗНАТЬ ПОГОДУ"
    android:textColor="#0F0F0F"
    android:textSize="16sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

3. Добавила следующие разрешения

```

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"/>

```

4. Добавила библиотеки

```

dependencies {
    implementation(libs.play.services.location)
    implementation(libs.volley)
}

```

5. Код в Main_Activity

```

class MainActivity : AppCompatActivity() {

    private lateinit var fusedLocationProviderClient: FusedLocationProviderClient
    private lateinit var textView: TextView
    private val LOCATION_PERMISSION_REQUEST_CODE = 1
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        textView = findViewById(R.id.textView)
        fusedLocationProviderClient = LocationServices.getFusedLocationProviderClient(this)
        requestLocationPermissions()
    }

    private fun requestLocationPermissions() {
        if (ActivityCompat.checkSelfPermission(
            context: this,
            Manifest.permission.ACCESS_FINE_LOCATION
        ) != PackageManager.PERMISSION_GRANTED
        ) {
            ActivityCompat.requestPermissions(
                activity: this,
                arrayOf(Manifest.permission.ACCESS_FINE_LOCATION),
                LOCATION_PERMISSION_REQUEST_CODE
            )
        }
    }
}

```

```

    }
    } else {
        getLocation()
    }
}

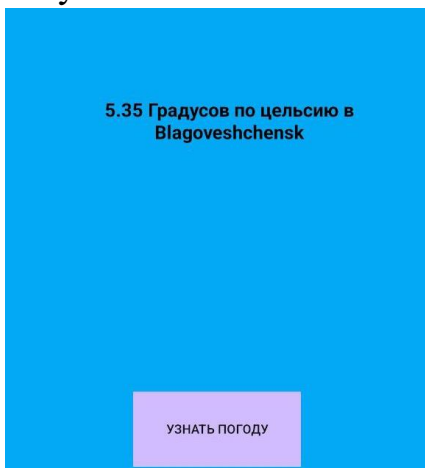
override fun onRequestPermissionsResult(
    requestCode: Int,
    permissions: Array<out String>,
    grantResults: IntArray
) {
    super.onRequestPermissionsResult(requestCode, permissions, grantResults)
    if (requestCode == LOCATION_PERMISSION_REQUEST_CODE) {
        if (grantResults.isNotEmpty() && grantResults[0] == PackageManager.PERMISSION_GRANTED) {
            getLocation()
        } else {
            Toast.makeText(context, "Location Permission not granted", Toast.LENGTH_SHORT).show()
        }
    }
}

@SuppressLint("MissingPermission")
private fun getLocation() {
    fusedLocationProviderClient.lastLocation
        .addOnSuccessListener { location ->
            if (location != null) {
                val latitude = location.latitude
                val longitude = location.longitude
                val apiUrl = "https://api.openweathermap.org/data/2.5/weather?lat=$latitude&lon=$longitude&appid=95cb9d66ec209958cccc48c7c4cfc064&units=metric"
                getTemp(apiUrl)
            } 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 ->
            try {
                val obj = JSONObject(response)
                val main: JSONObject = obj.getJSONObject("main")
                val temperature = main.getString("temp")
                val humidity = main.getString("humidity")
                println(humidity)
                val city = obj.getString("name")
                textView.text = "${temperature} Градусов по цельсию в ${city}"
            } catch (e: Exception) {
                textView.text = "Ошибка!"
            }
        },
        { textView.text = "Ошибка!" })
    queue.add(stringReq)
}

```

6. Результат:



Текущая температура в городе



Разрешить приложению **Ib11** доступ к данным о местоположении устройства?



Точно



Приблизительно

При использовании приложения

Только в этот раз

Запретить

Текущая температура в городе

УЗНАТЬ ПОГОДУ