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Демонстрация:  
Гапанюк Ю.Е.

"\_\_" \_\_\_\_\_ 2021 г.

"\_\_" \_\_\_\_\_ 2021 г.

**Отчет по домашнему заданию по курсу  
Разработка интернет-приложений  
ГУИМЦ**

**Тема работы: " Разработка мобильного приложения "**

59

(количество листов)

Вариант № 4

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(подпись)

"\_\_" \_\_\_\_\_ 2021 г.

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# 1. Описание задания

На основе методических указаний разработайте мобильное приложение на языке Kotlin (платформа Android) или языке Swift (платформа iOS). Для создания приложения необходимо решить следующие задачи:

1. Создать стартовый проект мобильного приложения.
2. Добавить компонент таблицы в Ваше приложение.
3. Добавить подключение из мобильного приложения к веб-сервису, разработанному в лабораторной работе №6.
4. Наполнить таблицу элементами, полученными из вашего веб-сервиса: с помощью запросов к API получить из него данные.
5. Разработать дополнительный экран с UI компонентами для отображения детальной информации об элементе таблицы при касании по нему.

Дополнительное задание:

Реализовать возможности редактирования, добавления и удаления данных таблицы в мобильном приложении с помощью запросов к веб-сервису.

## 2. Текст программы

Конфиг HTTP reverse proxy (IIS) C:\inetpub\DZ-RIP\web.config

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
  <system.webServer>
    <rewrite>
      <rules>
        <rule name="ProxyToYouTrack" patternSyntax="ECMAScript"
stopProcessing="true">
          <match url="(.*)" negate="false" />
          <action type="Rewrite"
url="http://localhost:8000/{R:1}" appendQueryString="true"
logRewrittenUrl="true" />
          <conditions>
            <add input="{SERVER_PORT}" pattern="443" />
          </conditions>
        </rule>
        <rule name="redir to ssl" enabled="true"
stopProcessing="true">
          <match url="(.*)" />
          <action type="Redirect" url="https://dz-
rip.pc.sccraft.ru" />
        </rule>
      </rules>
      <outboundRules>
        <preConditions>
          <preCondition name="ResponseIsHtml1">
            <add input="{RESPONSE_CONTENT_TYPE}"
pattern="^text/html" />
            <add input="{RESPONSE_CONTENT_TYPE}"
pattern="^application/json" />
          </preCondition>
        </preConditions>
      </outboundRules>
    </rewrite>
    <security>
      <requestFiltering allowDoubleEscaping="true" />
    </security>
  </system.webServer>
</system.web>
<httpRuntime requestPathInvalidCharacters="" />
</system.web>
</configuration>
```

app/src/main/java/ru/sccraft/bmstulabs/rip/animals/API\_URL.kt

```
package ru.sccraft.bmstulabs.rip.animals
```

```
const val API_URL = "https://dz-rip.pc.sccraft.ru"
```

```
/*
```

```
* dz.rip.pc.sccraft.ru - субдомен, внесённый в DNS сервер, обслуживающий
```

зону sccraft.ru

\* На этот сервер был получен SSL сертификат, который требует Android

\* Связь с API осуществляется через IIS HTTP Proxy. Подробнее:

<https://habr.com/ru/post/240495/>

\*/

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/MainActivity.kt

```
package ru.sccraft.bmstulabs.rip.animals

import android.content.Intent
import android.net.Uri
import android.os.Bundle
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import android.view.View
import android.widget.*
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import retrofit2.Call
import ru.sccraft.bmstulabs.rip.animals.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

    private lateinit var binding: ActivityMainBinding
    private lateinit var pb: ProgressBar
    private lateinit var lw: ListView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        setSupportActionBar(binding.toolbar)

        pb = findViewById(R.id.progressBar_main)
        lw = findViewById(R.id.listView_animals)

        binding.fab.setOnClickListener { view ->
            val intent = Intent(this, AnimalAddActivity::class.java)
            startActivity(intent)
        }

        ////////////
        получить_данные_из_API()
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        // Inflate the menu; this adds items to the action bar if it is
        present.
        menuInflater.inflate(R.menu.menu_main, menu)
    }
}
```

```

        return true
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        return when (item.itemId) {
            R.id.action_about -> {
                val intent = Intent(this@MainActivity,
AboutActivity::class.java)
                startActivity(intent)
                return true
            }
            R.id.action_update -> {
                получить_данные_из_API()
                return true
            }
            else -> super.onOptionsItemSelected(item)
        }
    }

    private fun получить_данные_из_API() {
        показать_индикатор_загрузки()
        NetworkService.getInstance()
            .jsonApi
            .allAnimals
            .enqueue(object : retrofit2.Callback<List<Animal?>>> {
                override fun onResponse(
                    call: Call<List<Animal?>>>,
                    response: retrofit2.Response<List<Animal?>>>
                ) {
                    val animalList = response.body()
                    if (animalList != null) {
                        Log.i("MainActivity", "Данные из API успешно
получены!")

                        val список_животных = ArrayList<Animal>()
                        for (a in animalList) {
                            if (a != null)
                                список_животных.add(a)
                        }
                        val адаптер = AnimalAdapter(this@MainActivity,
список_животных)

                        lw.adapter = адаптер
                        lw.setOnItemClickListener { parent, view,
position, id ->
                            val intent = Intent(this@MainActivity,
AnimalInfoActivity::class.java)
                            if (animalList[position] != null) {
                                intent.putExtra("animal_name",
animalList[position]!!.animal_name)
                                intent.putExtra("animal_type",
animalList[position]!!.animal_type)
                                intent.putExtra("animal_photo",

```

```

animalList[position]!!.animal_photo)
                                intent.putExtra("animal_id",
animalList[position]!!.id)
                                }
                                startActivity(intent)
                                }
                                }
                                else {
                                    //404 - Прокси-сервер выключен //502 - прокси-
сервер включён, но API выключен
                                    val error_arrayList = ArrayList<String>(1)
                                    error_arrayList.add("Не удалось получить
данные!")
                                    val adapter = ArrayAdapter<this@MainActivity,
android.R.layout.simple_list_item_1, android.R.id.text1,
error_arrayList>
                                    lw.adapter = adapter
                                    lw.setOnItemClickListener { parent, view,
position, id ->
                                        показать_диалог_ошибки_загрузки()
                                    }
                                    скрыть_индикатор_загрузки()
                                }

                                override fun onFailure(call: Call<List<Animal?>>?, t:
Throwable) {
                                    //Что-то пошло не так...
                                    Log.e("MainActivity", "Не удалось получить данные из
API")

                                    t.printStackTrace()
                                    показать_диалог_ошибки_загрузки()
                                    скрыть_индикатор_загрузки()
                                }
                            })
                        }

private fun показать_диалог_ошибки_загрузки() {
    val builder = AlertDialog.Builder(this)
    builder.setTitle(R.string.dialog_fail_download_title)
    builder.setMessage(R.string.dialog_fail_download_text)

    builder.setPositiveButton(R.string.retry) { dialog, id ->
        получить_данные_из_API()
    }

    builder.setNegativeButton(
        android.R.string.cancel) { dialog, id ->
    }

    builder.setNeutralButton(R.string.open_API) {dialog, id->
        val ссылка_на_API = Uri.parse("$API_URL/")
        val открыть_API_в_браузере = Intent(Intent.ACTION_VIEW,
ссылка_на_API)
        startActivity(открыть_API_в_браузере)
    }
}

```

```

        }
        builder.show()
    }

    private fun показать_индикатор_загрузки() {
        lw.visibility = View.GONE
        pb.visibility = View.VISIBLE
    }

    private fun скрыть_индикатор_загрузки() {
        lw.visibility = View.VISIBLE
        pb.visibility = View.GONE
    }
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/Animal.java

```

package ru.sccraft.bmstulabs.rip.animals;

import androidx.annotation.NonNull;

import com.google.gson.annotations.Expose;
import com.google.gson.annotations.SerializedName;

public class Animal {
    @SerializedName("id")
    @Expose
    private int id;

    @SerializedName("animal_name")
    @Expose
    private String animal_name;

    @SerializedName("animal_type")
    @Expose
    private String animal_type;

    @SerializedName("animal_photo")
    @Expose
    private String animal_photo;

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getAnimal_name() {
        return animal_name;
    }

    public String getAnimal_type() {

```



```

        return animal_type;
    }

    public String getAnimal_photo() {
        return animal_photo;
    }

    public void setAnimal_name(String animal_name) {
        this.animal_name = animal_name;
    }

    public void setAnimal_type(String animal_type) {
        this.animal_type = animal_type;
    }

    public void setAnimal_photo(String animal_photo) {
        this.animal_photo = animal_photo;
    }

    @NonNull
    @Override
    public String toString() {
        return animal_name + "\n" + animal_type;
    }
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/AnimalAdapter.kt

```

package ru.sccraft.bmstulabs.rip.animals

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.BaseAdapter
import android.widget.ImageView
import android.widget.TextView
import com.bumptech.glide.Glide

class AnimalAdapter(context: Context, private val животные:
List<Animal>) : BaseAdapter() {

    private val lInflater: LayoutInflater
    private val c: Context

    init {
        lInflater =
context.getSystemService(Context.LAYOUT_INFLATER_SERVICE) as
LayoutInflater
        c = context
    }

    override fun getCount(): Int {
        return животные.size
    }
}

```

```

    override fun getItem(i: Int): Any {
        return ЖИВОТНЫЕ[i]
    }

    override fun getItemId(i: Int): Long {
        return i.toLong()
    }

    override fun getView(i: Int, view: View?, viewGroup: ViewGroup):
View {
        // используем созданные, но не используемые view
        var вью: View? = view
        if (вью == null) {
            вью = LayoutInflater.inflate(R.layout.item_list_animal,
viewGroup, false)
        }
        val животное = получить_животное(i)
        val кличка = вью!!.findViewById<TextView>(R.id.list_animal_name)
        val вид = вью.findViewById<TextView>(R.id.list_animal_type)
        val фото = вью.findViewById<ImageView>(R.id.list_animal_photo)

        кличка.text = животное.animal_name
        вид.text = животное.animal_type
        Glide.with(c).load(животное.animal_photo).into(фото)
        return вью
    }

    private fun получить_животное(позиция: Int): Animal {
        return getItem(позиция) as Animal
    }
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/AnimalAddActivity.kt

```

package ru.sccraft.bmstulabs.rip.animals

import android.os.Bundle
import android.util.Log
import android.view.Menu
import android.view.MenuItem
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import okhttp3.OkHttpClient
import retrofit2.Call
import retrofit2.Callback
import retrofit2.Response
import retrofit2.Retrofit
import retrofit2.converter.gson.GsonConverterFactory

class AnimalAddActivity : AppCompatActivity() {

```

```

private var кличка_животного :EditText? = null
private var вид_животного :EditText? = null
private var фото_животного :EditText? = null

override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_animal_add)
    setTitle(R.string.activity_animal_add)

    кличка_животного = findViewById(R.id.editText_animal_name)
    вид_животного = findViewById(R.id.editText_animal_type)
    фото_животного = findViewById(R.id.editText_animal_photo)
}

override fun onCreateOptionsMenu(menu: Menu?): Boolean {
    menuInflater.inflate(R.menu.menu_animal_add, menu)
    return true
}

override fun onOptionsItemSelected(item: MenuItem): Boolean {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    return when (item.itemId) {
        R.id.action_save -> {
            ServiceBuilder.buildService(POST_RestApi::class.java)
            addNewAnimal()
            return true
        }
        else -> super.onOptionsItemSelected(item)
    }
}

//Отправка POST на сервер
private fun addNewAnimal() {
    val apiService = RestApiService()
    val animal = Animal()
    animal.id = 0
    animal.animal_name = кличка_животного!!.text.toString()
    animal.animal_type = вид_животного!!.text.toString()
    animal.animal_photo = фото_животного!!.text.toString()

    apiService.addUser(animal) {
        if (it?.id != null) {
            //Завершаеи Activity без проверки полученного объекта
            finish()
        } else {
            Log.e("AnimalAddActivity",
getString(R.string.fail_add_animal))
            Toast.makeText(applicationContext,
R.string.fail_add_animal, Toast.LENGTH_LONG).show()
        }
    }
}

```

```

}

////////////////////////////////////

private object ServiceBuilder {
    private val client = OkHttpClient.Builder().build()

    private val retrofit = Retrofit.Builder()
        .baseUrl(API_URL)
        .addConverterFactory(GsonConverterFactory.create())
        .client(client)
        .build()

    fun<T> buildService(service: Class<T>): T{
        return retrofit.create(service)
    }
}

////////////////////////////////////

private class RestApiService {
    fun addUser(userData: Animal, onResult: (Animal?) -> Unit){
        val retrofit =
ServiceBuilder.buildService(POST_RestApi::class.java)
        retrofit.addAnimal(userData).enqueue(
            object : Callback<Animal> {
                override fun onFailure(call: Call<Animal>, t:
Throwable) {
                    onResult(null)
                }
                override fun onResponse(call: Call<Animal>,
response: Response<Animal>) {
                    val addedAnimal = response.body()
                    onResult(addedAnimal)
                }
            }
        )
    }
}
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/AnimalInfoActivity.kt

```

package ru.sccraft.bmstulabs.rip.animals

import android.content.DialogInterface
import android.content.Intent
import android.net.Uri
import android.os.AsyncTask
import android.os.Bundle
import android.view.Menu
import android.view.MenuItem

```

```

import android.widget.ImageView
import android.widget.TextView
import androidx.appcompat.app.AlertDialog
import androidx.appcompat.app.AppCompatActivity
import com.bumptech.glide.Glide
import okhttp3.MediaType
import okhttp3.OkHttpClient
import okhttp3.Request
import okhttp3.RequestBody
import java.io.IOException

class AnimalInfoActivity : AppCompatActivity() {

    companion object {
        var animal_name = ""
        var animal_type = ""
        var animal_photo = ""
        var animal_id = 0
    }

    private var показывать_диалог_удаления = false

    private lateinit var tv_name :TextView
    private lateinit var tv_type :TextView
    private lateinit var img :ImageView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_animal_info)
        setTitle(getString(R.string.title_activity_animalInfo))
        setupActionBar()

        if (savedInstanceState == null) {
            animal_name = intent.getStringExtra("animal_name")!!
            animal_type = intent.getStringExtra("animal_type")!!
            animal_photo = intent.getStringExtra("animal_photo")!!
            animal_id = intent.getIntExtra("animal_id", 0)
        }
        else {
            показывать_диалог_удаления =
savedInstanceState.getBoolean("delete_dialog")
        }

        tv_name = findViewById(R.id.info_animal_name)
        tv_type = findViewById(R.id.info_animal_type)
        img = findViewById(R.id.info_animal_photo)

        tv_name.text = animal_name
        tv_type.text = animal_type
        Glide.with(this).load(animal_photo).into(img)
    }

    private fun setupActionBar() {

```

```

        val actionBar = supportActionBar
        actionBar?.setDisplayHomeAsUpEnabled(true)
    }

    override fun onCreateOptionsMenu(menu: Menu): Boolean {
        // Inflate the menu; this adds items to the action bar if it is
        present.
        menuInflater.inflate(R.menu.menu_animal_info, menu)
        return true
    }

    override fun onOptionsItemSelected(item: MenuItem): Boolean {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        return when (item.itemId) {
            R.id.action_delete -> {
                показывать_диалог_удаления = true
                показать_диалог_удаления()
                return true
            }
            else -> super.onOptionsItemSelected(item)
        }
    }

    fun удалить_животное() {
        class Поток : AsyncTask() {

            override fun doInBackground(vararg params: Void): Int {
                val client = OkHttpClient()
                val builder = Request.Builder()
                    .url("$API_URL/animals/$animal_id/")
                    .delete(
                        RequestBody.create(
                            MediaType.parse("application/json;
charset=utf-8"), "{}"
                        )
                    )
                val request = builder.build()
                try {
                    val response = client.newCall(request).execute()
                    val string = response.body()!!.string()
                    // TODO use your response
                } catch (e: IOException) {
                    e.printStackTrace()
                }

                return 0
            }

            override fun onPostExecute(i: Int) {
                super.onPostExecute(i)
                finish()
            }
        }
    }

```

```

    }

    val поток = Поток()
    поток.execute()
}

override fun onSaveInstanceState(outState: Bundle) {
    super.onSaveInstanceState(outState)
    outState.putBoolean("delete_dialog", показывать_диалог_удаления)
}

private fun показать_диалог_удаления() {
    val builder = AlertDialog.Builder(this)
    builder.setTitle(R.string.dialog_delete_title)
    builder.setMessage(R.string.dialog_delete_text)
    builder.setCancelable(true)

    builder.setPositiveButton(R.string.yes) { dialog, id ->
        удалить_животное()
    }

    builder.setNegativeButton(R.string.no) { dialog, id ->
        показывать_диалог_удаления = false
    }
    builder.setOnCancelListener { dialogInterface: DialogInterface -
        >
            показывать_диалог_удаления = false
    }

    builder.show()
}
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/JSONPlaceholderApi.java

```

package ru.sccraft.bmstulabs.rip.animals;

import java.util.List;

import retrofit2.Call;
import retrofit2.http.GET;

public interface JSONPlaceholderApi {
    @GET("/animals")
    public Call<List<Animal>> getAllAnimals();
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/NetworkService.java

```

package ru.sccraft.bmstulabs.rip.animals;

```

```

import retrofit2.Retrofit;
import retrofit2.converter.gson.GsonConverterFactory;

public class NetworkService {
    private static NetworkService mInstance;
    private static final String BASE_URL = API_URLKt.API_URL;
    private final Retrofit mRetrofit;

    private NetworkService() {
        mRetrofit = new Retrofit.Builder()
            .baseUrl(BASE_URL)
            .addConverterFactory(GsonConverterFactory.create())
            .build();
    }

    public static NetworkService getInstance() {
        if (mInstance == null) {
            mInstance = new NetworkService();
        }
        return mInstance;
    }

    public JSONPlaceholderApi getJSONApi() {
        return mRetrofit.create(JSONPlaceholderApi.class);
    }
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/POST\_RestApi.kt

```

package ru.sccraft.bmstulabs.rip.animals

import retrofit2.Call
import retrofit2.http.Body
import retrofit2.http.Headers
import retrofit2.http.POST

interface POST_RestApi {

    @Headers("Content-Type: application/json")
    @POST("animals/")
    fun addAnimal(@Body animalData: Animal): Call<Animal>
}

```

## app/src/main/java/ru/sccraft/bmstulabs/rip/animals/AboutActivity.kt

```

package ru.sccraft.bmstulabs.rip.animals

import android.annotation.SuppressLint
import android.content.Intent
import android.content.pm.PackageInfo
import android.content.pm.PackageManager
import android.net.Uri
import android.os.AsyncTask
import android.os.Bundle
import android.view.View
import android.widget.TextView

```



```

import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.core.content.pm.PackageInfoCompat.getLongVersionCode
import java.io.BufferedReader
import java.io.IOException
import java.io.InputStreamReader

class AboutActivity : AppCompatActivity(R.layout.activity_about) {

    internal var номер_сборки = 0L //VersionCode
    internal var название_версии = "" //VersionName
    internal lateinit var vc: TextView
    internal lateinit var vn: TextView
    private var кликни_пять_раз_не_поворачивая_экран: Byte = 0
    private lateinit var toast: Toast

    @SuppressLint("ShowToast")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setupActionBar()
        title = getString(R.string.about)
        toast = Toast.makeText(applicationContext, "",
Toast.LENGTH_SHORT)
        try {
            название_версии = packageManager.getPackageInfo(packageName,
0).versionName
        } catch (e: PackageManager.NameNotFoundException) {
            e.printStackTrace()
        }

        try {
            val информация_о_пакете: PackageInfo =
getPackageManager().getPackageInfo(getPackageName(), 0)
            номер_сборки = getLongVersionCode(информация_о_пакете)
        } catch (e: PackageManager.NameNotFoundException) {
            e.printStackTrace()
        }

        vc = findViewById(R.id.aboutVersionCode)
        vn = findViewById(R.id.aboutVN)
        vc.text = номер_сборки.toString()
        vn.text = название_версии
        кликни_пять_раз_не_поворачивая_экран = 0
    }

    private fun setupActionBar() {
        val actionBar = supportActionBar
        actionBar?.setDisplayHomeAsUpEnabled(true)
    }

    private fun получить_лог_приложения(): String {
        try {
            val процесс = Runtime.getRuntime().exec("logcat -d")
            val bufferedReader =

```

```
BufferedReader(InputStreamReader(процесс.inputStream))
```

```
    val лог = StringBuilder()
    var линия: String? = ""
    do {
        линия = bufferedReader.readLine()
        лог.append("$линия\n")
    } while (линия != null)
    return лог.toString()
} catch (e: IOException) {
    e.printStackTrace()
    return ""
}

}

fun getLogcat(view: View) {
    if (кликни_пять_раз_не_поворачивая_экран < 5) {
        кликни_пять_раз_не_поворачивая_экран++
        toast.setText(R.string.onlyForDevelopers)
        toast.duration = Toast.LENGTH_LONG
        toast.show()
        if (кликни_пять_раз_не_поворачивая_экран.toInt() != 5)
return
    }
    toast.cancel()
    class Поток : AsyncTask<Void, Void, Intent>() {

        override fun doInBackground(vararg params: Void): Intent {
            val отправить_лог = Intent()
            отправить_лог.action = Intent.ACTION_SEND
            отправить_лог.putExtra(Intent.EXTRA_TEXT,
получить_лог_приложения())
            отправить_лог.type = "text/plain"
            return отправить_лог
        }

        override fun onPostExecute(intent: Intent) {
            super.onPostExecute(intent)
            if (intent.resolveActivity(packageManager) != null) {
                startActivity(intent)
            }
        }
    }

    val поток = Поток()
    поток.execute()

}

fun privacy(view: View) {
    val ссылка_на_политику_конфиденциальности =
Uri.parse("https://github.com/sashaqwert/BMSTU_RIP/blob/master/%D0%94%D0
%97/%D0%9F%D0%BE%D0%BB%D0%B8%D1%82%D0%B8%D0%BA%D0%B8_%D0%BB%D0%B8%D1%86%
```

```

D0%B5%D0%BD%D0%B7%D0%B8%D0%B8/Privacy.md")
        val открыть_политику_конфиденциальности_в_браузере =
Intent(Intent.ACTION_VIEW, ссылка_на_политику_конфиденциальности)
        startActivity(открыть_политику_конфиденциальности_в_браузере)
    }

    fun viewLicense(view: View) {
        val ссылка_на_лицензию =
Uri.parse("https://github.com/sashaqwert/BMSTU_RIP/blob/master/%D0%94%D0
%97/%D0%9F%D0%BE%D0%BB%D0%B8%D1%82%D0%B8%D0%BA%D0%B8_%D0%BB%D0%B8%D1%86
D0%B5%D0%BD%D0%B7%D0%B8%D0%B8/LICENSE")
        val открыть_лицензию_в_браузере = Intent(Intent.ACTION_VIEW,
ссылка_на_лицензию)
        startActivity(открыть_лицензию_в_браузере)
    }

    fun viewSourceCode(view: View) {
        val ссылка_на_исходный_код =
Uri.parse("https://github.com/sashaqwert/BMSTU_RIP/tree/master/%D0%94%D0
%97")
        val открыть_исходный_код_в_браузере = Intent(Intent.ACTION_VIEW,
ссылка_на_исходный_код)
        startActivity(открыть_исходный_код_в_браузере)
    }
}

```

## app/src/main/AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="ru.sccraft.bmstulabs.rip.animals">

    <uses-permission android:name="android.permission.INTERNET" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Животные">
        <activity
            android:name=".AnimalAddActivity"
            android:exported="false" />
        <activity
            android:name=".AnimalInfoActivity"
            android:exported="false">
            <meta-data
                android:name="android.support.PARENT_ACTIVITY"
                android:value=".MainActivity" />
        </activity>
        <activity
            android:name=".AboutActivity"
            android:exported="false">
            <meta-data

```

```

        android:name="android.support.PARENT_ACTIVITY"
        android:value=".MainActivity" />
    </activity>
    <activity
        android:name=".MainActivity"
        android:exported="true"
        android:label="@string/app_name"
        android:theme="@style/Theme.Животные.NoActionBar">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />

            <category
android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

## app/src/main/res/values/strings.xml

```

<resources>
    <string name="app_name">Животные</string>
    <string name="action_settings">Настройки</string>
    <!-- Strings used for fragments for navigation -->
    <string name="first_fragment_label">Животные</string>
    <string name="second_fragment_label">Second Fragment</string>

    <string name="version">"Версия: "</string>
    <string name="versionCode">"Номер сборки: "</string>
    <string name="license">"Лицензия: "</string>
    <string name="privacy">Политика конфиденциальности</string>
    <string name="license_button">Просмотреть лицензию</string>
    <string name="sourceCode">Исходный код</string>
    <string name="send_logcat">Отправить лог</string>
    <string name="about">О программе</string>
    <string name="onlyForDevelopers">Данная функция предназначена только
для разработчиков!</string>
    <string name="animal_name">Кличка</string>
    <string name="animal_type">Вид животного</string>
    <string name="animal_photo_alternative_text">Фото животного</string>
    <string name="title_activity_animalInfo">О животном</string>
    <string name="animal_photo_url">Ссылка на картинку
(https://...)</string>
    <string name="action_save">Сохранить</string>
    <string name="dialog_fail_download_text">Проверьте, подключено ли
ваше Android устройство (или эмулятор) к интернету и повторите
попытку.\nВ настоящее время приложение поддерживает только HTTPS
трафик.</string>
    <string name="dialog_fail_download_title">Ошибка загрузки
данных</string>
    <string name="retry">Попробовать ещё раз</string>
    <string name="activity_animal_add">Новое животное</string>
    <string name="fail_add_animal">Не удалось добавить новое
животное!</string>

```

```

<string name="action_update">Обновить</string>
<string name="developer">"Разработчик: "</string>
<string name="developer_fio">Чиварзин А. Е.</string>
<string name="developer_group">"Группа: "</string>
<string name="developer_group_value">ИУ5Ц-72Б</string>
<string name="action_delete">Удалить</string>
<string name="open_API">Открыть API</string>
<string name="yes">Да</string>
<string name="no">Нет</string>
<string name="dialog_delete_title">Удалить животное?</string>
<string name="dialog_delete_text">Текущее животное будет
безвозвратно удалено для всех пользователей приложения.\nВы
действительно хотите продолжить?</string>
</resources>

```

### app/src/main/res/values/colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
</resources>

```

### app/src/main/res/values/dimens.xml

```

<resources>
    <dimen name="fab_margin">16dp</dimen>
</resources>

```

### app/src/main/res/values-land/dimens.xml

```

<resources>
    <dimen name="fab_margin">48dp</dimen>
</resources>

```

### app/src/main/res/values-w1240dp/dimens.xml

```

<resources>
    <dimen name="fab_margin">200dp</dimen>
</resources>

```

### app/src/main/res/values-w600dp/dimens.xml

```

<resources>
    <dimen name="fab_margin">48dp</dimen>
</resources>

```

## app/src/main/res/values/themes.xml

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.Животные"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor"
tools:targetApi="1">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>

    <style name="Theme.Животные.NoActionBar">
        <item name="windowActionBar">false</item>
        <item name="windowNoTitle">true</item>
    </style>

    <style name="Theme.Животные.AppBarOverlay"
parent="ThemeOverlay.AppCompat.Dark.ActionBar" />

    <style name="Theme.Животные.PopupOverlay"
parent="ThemeOverlay.AppCompat.Light" />
</resources>
```

## app/src/main/res/values-night/themes.xml

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->
    <style name="Theme.Животные"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brand color. -->
        <item name="colorPrimary">@color/purple_200</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/black</item>
        <!-- Secondary brand color. -->
        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_200</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->
        <item name="android:statusBarColor"
tools:targetApi="1">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>
</resources>
```

## app/src/main/res/menu/menu\_main.xml

```
<menu 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"
      tools:context="ru.sccraft.bmstulabs.rip.animals.MainActivity">
    <item
        android:id="@+id/action_update"
        android:icon="@android:drawable/ic_popup_sync"
        android:orderInCategory="100"
        android:title="@string/action_update"
        app:showAsAction="always" />
    <item
        android:id="@+id/action_about"
        android:orderInCategory="101"
        android:title="@string/about"
        app:showAsAction="never" />
</menu>
```

## app/src/main/res/menu/menu\_animal\_info.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/action_delete"
        android:icon="@android:drawable/ic_menu_delete"
        android:title="@string/action_delete" />

</menu>
```

## app/src/main/res/menu-large/menu\_animal\_info.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
      xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/action_delete"
        android:icon="@android:drawable/ic_menu_delete"
        android:title="@string/action_delete"
        app:showAsAction="always|withText" />

</menu>
```

## app/src/main/res/menu-xlarge/menu\_animal\_info.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:app="http://schemas.android.com/apk/res-auto"
      xmlns:android="http://schemas.android.com/apk/res/android">

    <item
        android:id="@+id/action_delete"
        android:icon="@android:drawable/ic_menu_delete"
```

```

        android:title="@string/action_delete"
        app:showAsAction="always|withText" />
</menu>

```

## app/src/main/res/layout/activity\_about.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/activity_about"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:paddingLeft="5dp"
    android:paddingRight="5dp"
    tools:context=".AboutActivity">

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:textAlignment="center"
                android:textSize="36sp"
                android:textStyle="normal|bold"
                android:text="@string/app_name" />

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="horizontal">
                <TextView
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:text="@string/version" />
                <TextView
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    tools:text="0.1alpha1"
                    android:id="@+id/aboutVN" />
            </LinearLayout>
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">
            <TextView
                android:layout_width="wrap_content"

```



```

        android:layout_height="wrap_content"
        android:text="@string/versionCode" />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    tools:text="1"
    android:id="@+id/aboutVersionCode" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/developer" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/developer_fio" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/developer_group" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/developer_group_value" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/license" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="GNU GENERAL PUBLIC LICENSE Version 3"
/>
</LinearLayout>

```

```

        <Button
            style="@style/Widget.MaterialComponents.Button.OutlinedButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:onClick="privacy"
            android:text="@string/privacy" />

        <Button
            style="@style/Widget.MaterialComponents.Button.OutlinedButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:onClick="viewLicense"
            android:text="@string/license_button" />

        <Button
            style="@style/Widget.MaterialComponents.Button.TextButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:onClick="viewSourceCode"
            android:text="@string/sourceCode" />

        <Button
            style="@style/Widget.MaterialComponents.Button.TextButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center"
            android:onClick="getLogcat"
            android:text="@string/send_logcat" />
    </LinearLayout>
</ScrollView>

</LinearLayout>

```

## app/src/main/res/layout/activity\_animal\_add.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".AnimalAddActivity">

    <com.google.android.material.textfield.TextInputLayout

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <EditText
            android:id="@+id/editText_animal_name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="@string/animal_name" />
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <EditText
            android:id="@+id/editText_animal_type"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="@string/animal_type" />
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <EditText
            android:id="@+id/editText_animal_photo"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="@string/animal_photo_url" />
    </com.google.android.material.textfield.TextInputLayout>

</LinearLayout>

```

## app/src/main/res/layout/activity\_animal\_info.xml

```

<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".AnimalInfoActivity">

    <ImageView
        android:id="@+id/info_animal_photo"
        android:layout_width="0dp"
        android:layout_height="0dp"
        android:layout_marginBottom="8dp"
        app:layout_constraintBottom_toTopOf="@+id/info_animal_name"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"

```

```

        tools:srcCompat="@tools:sample/avatars" />

<TextView
    android:id="@+id/info_animal_name"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="10dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="10dp"
    android:layout_marginBottom="9dp"
    android:textAlignment="center"
    android:textSize="34sp"
    app:layout_constraintBottom_toTopOf="@+id/textView2"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/info_animal_photo"
    tools:text="Кличка" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="8dp"
    android:layout_marginBottom="32dp"
    android:text="@string/animal_name"
    android:textAlignment="center"
    app:layout_constraintBottom_toTopOf="@+id/info_animal_type"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/info_animal_name" />

<TextView
    android:id="@+id/info_animal_type"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:layout_marginBottom="8dp"
    android:textAlignment="center"
    android:textSize="24sp"
    app:layout_constraintBottom_toTopOf="@+id/textView4"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2"
    tools:text="ДороКэт" />

<TextView
    android:id="@+id/textView4"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="8dp"
    android:layout_marginBottom="8dp"
    android:text="@string/animal_type"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"

```

```

        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/info_animal_type" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

## app/src/main/res/layout-land/activity\_animal\_info.xml

```

<?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:layout_width="match_parent"
    android:layout_height="match_parent">

    <ImageView
        android:id="@+id/info_animal_photo"
        android:layout_width="0dp"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/info_animal_name"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        tools:srcCompat="@tools:sample/avatars" />

    <TextView
        android:id="@+id/info_animal_name"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:textAlignment="center"
        android:textSize="48sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/info_animal_photo"
        app:layout_constraintTop_toTopOf="parent"
        tools:text="Кличка" />

    <TextView
        android:id="@+id/info_animal_type"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="78dp"
        android:textAlignment="center"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toEndOf="@+id/info_animal_photo"
        app:layout_constraintTop_toBottomOf="@+id/info_animal_name"
        tools:text="ДороКэт" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## app/src/main/res/layout/activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/Theme.Животные.AppBarOverlay">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/Theme.Животные.PopupOverlay" />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_marginEnd="@dimen/fab_margin"
        android:layout_marginBottom="16dp"
        app:srcCompat="@android:drawable/ic_input_add"
        android:contentDescription="@string/activity_animal_add" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

## app/src/main/res/layout/content\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:visibility="visible"
    android:orientation="vertical">

    <ListView
        android:id="@+id/listView_animals"
```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:visibility="gone"
        tools:visibility="visible" />

<ProgressBar
    android:id="@+id/progressBar_main"
    style="@style/Widget.AppCompat.ProgressBar"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:visibility="visible"
    tools:visibility="gone" />
</LinearLayout>

```

## app/src/main/res/layout/item\_list\_animal.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="8dp"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <ImageView
            android:id="@+id/list_animal_photo"
            android:layout_width="match_parent"
            android:layout_margin="8dp"
            android:layout_height="200dp"

            android:contentDescription="@string/animal_photo_alternative_text" />

        <TextView
            android:id="@+id/list_animal_name"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:text="@string/animal_name"
            android:textStyle="bold"
            android:textSize="28sp" />

        <TextView
            android:id="@+id/list_animal_type"
            android:layout_width="wrap_content"
            android:layout_marginTop="8dp"
            android:layout_height="wrap_content"
            android:layout_marginStart="8dp"
            android:text="@string/animal_type"
            android:textStyle="bold"
            android:textSize="16sp" />
    </LinearLayout>

```

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

## app/src/main/res/layout-land/item\_list\_animal.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">

    <ImageView
        android:id="@+id/list_animal_photo"
        android:layout_width="match_parent"
        android:layout_height="200dp"
        android:layout_margin="8dp"
        android:layout_weight="1"

        android:contentDescription="@string/animal_photo_alternative_text"
        tools:srcCompat="@tools:sample/avatars" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_weight="1"
        android:layout_gravity="center_vertical">

        <TextView
            android:id="@+id/list_animal_name"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_horizontal"
            android:text="@string/animal_name"
            android:textStyle="bold"
            android:textSize="28sp" />

        <TextView
            android:id="@+id/list_animal_type"
            android:layout_width="wrap_content"
            android:layout_marginTop="8dp"
            android:layout_height="wrap_content"
            android:layout_marginStart="8dp"
            android:text="@string/animal_type"
            android:textStyle="bold"
            android:textSize="16sp" />
    </LinearLayout>

</LinearLayout>
```



## build.gradle

*// Top-level build file where you can add configuration options common to all sub-projects/modules.*

```
buildscript {
    repositories {
        google()
        mavenCentral()
    }
    dependencies {
        classpath "com.android.tools.build:gradle:7.0.4"
        classpath "org.jetbrains.kotlin:kotlin-gradle-plugin:1.6.10"

        // NOTE: Do not place your application dependencies here; they belong
        // in the individual module build.gradle files
    }
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```

## app/build.gradle

```
plugins {
    id 'com.android.application'
    id 'kotlin-android'
}

android {
    compileSdk 32

    defaultConfig {
        applicationId "ru.sccraft.bmstulabs.rip.animals"
        minSdk 21
        targetSdk 32
        versionCode 1
        versionName "1.0"

        testInstrumentationRunner
        "androidx.test.runner.AndroidJUnitRunner"
    }

    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'), 'proguard-rules.pro'
        }
    }
    compileOptions {
        sourceCompatibility JavaVersion.VERSION_1_8
        targetCompatibility JavaVersion.VERSION_1_8
    }
}
```

```

kotlinOptions {
    jvmTarget = '1.8'
}
buildFeatures {
    viewBinding true
}
}

dependencies {

    implementation 'androidx.core:core-ktx:1.7.0'
    implementation 'androidx.appcompat:appcompat:1.4.0'
    implementation 'com.google.android.material:material:1.4.0'
    implementation 'com.google.code.gson:gson:2.8.6'
    implementation 'com.squareup.retrofit2:retrofit:2.4.0'
    implementation 'androidx.constraintlayout:constraintlayout:2.1.2'
    implementation 'androidx.navigation:navigation-fragment-ktx:2.3.5'
    implementation 'com.squareup.retrofit2:converter-gson:2.3.0'
    implementation 'androidx.navigation:navigation-ui-ktx:2.3.5'
    implementation 'com.github.bumptech.glide:glide:4.11.0'
    annotationProcessor 'com.github.bumptech.glide:compiler:4.11.0'
    testImplementation 'junit:junit:'
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'
    androidTestImplementation 'androidx.test.espresso:espresso-
core:3.4.0'
}

```

## gradle/wrapper/gradle-wrapper.properties

```

#Fri Dec 24 20:04:08 MSK 2021
distributionBase=GRADLE_USER_HOME
distributionUrl=https\://services.gradle.org/distributions/gradle-7.0.2-
bin.zip
distributionPath=wrapper/dists
zipStorePath=wrapper/dists
zipStoreBase=GRADLE_USER_HOME

```

## gradle.properties

```

# Project-wide Gradle settings.
# IDE (e.g. Android Studio) users:
# Gradle settings configured through the IDE *will override*
# any settings specified in this file.
# For more details on how to configure your build environment visit
# http://www.gradle.org/docs/current/userguide/build_environment.html
# Specifies the JVM arguments used for the daemon process.
# The setting is particularly useful for tweaking memory settings.
org.gradle.jvmargs=-Xmx2048m -Dfile.encoding=UTF-8
# When configured, Gradle will run in incubating parallel mode.
# This option should only be used with decoupled projects. More details,
visit
#
http://www.gradle.org/docs/current/userguide/multi_project_builds.html#s
ec:decoupled_projects
# org.gradle.parallel=true

```

```

# AndroidX package structure to make it clearer which packages are
bundled with the
# Android operating system, and which are packaged with your app"s APK
# https://developer.android.com/topic/libraries/support-
library/androidx-rn
android.useAndroidX=true
# Automatically convert third-party libraries to use AndroidX
android.enableJetifier=true
# Kotlin code style for this project: "official" or "obsolete":
kotlin.code.style=official

```

## settings.gradle

```

dependencyResolutionManagement {
    repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)
    repositories {
        google()
        mavenCentral()
        jcenter() // Warning: this repository is going to shut down soon
    }
}
rootProject.name = "ЖИВОТНЫЕ"
include ':app'

```

## local.properties

```

## This file is automatically generated by Android Studio.
# Do not modify this file -- YOUR CHANGES WILL BE ERASED!
#
# This file should *NOT* be checked into Version Control Systems,
# as it contains information specific to your local configuration.
#
# Location of the SDK. This is only used by Gradle.
# For customization when using a Version Control System, please read the
# header note.
sdk.dir=C:\\Users\\sasha\\AppData\\Local\\Android\\Sdk

```

### 3. Связь приложения с API по доменному имени

Связь с API осуществляется по протоколу HTTPS на порт 443 (IP 91.77.163.54).  
В качестве SSL сертификата используется бесплатный от «freessl.org».

Алгоритм соединения:

1. Приложение обращается по URL адресу API
2. Подключение обрабатывает IIS и перенаправляет запрос на адрес <http://127.0.0.1:8000>
3. IIS получает ответ от API и перенаправляет его приложению

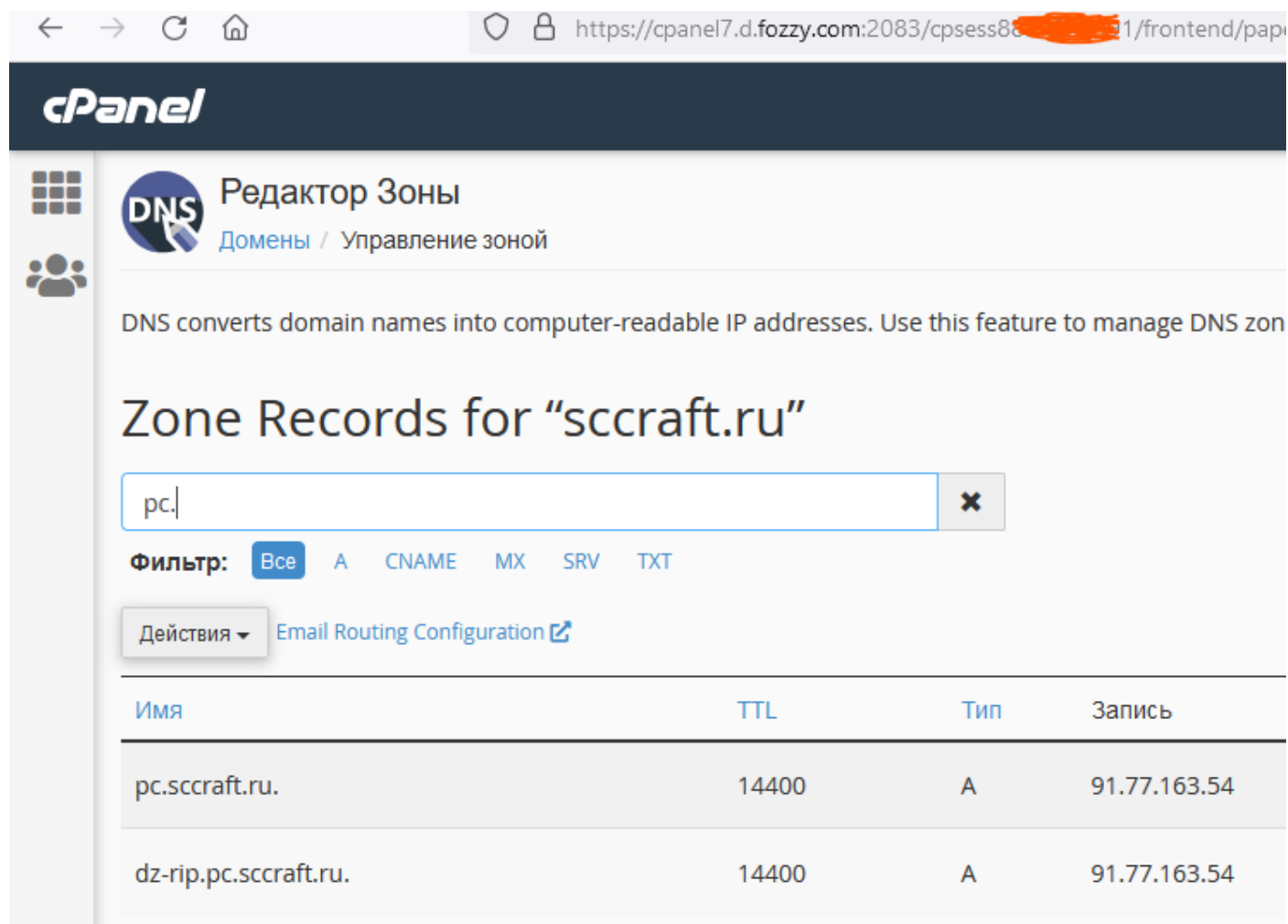
#### Информация о домене

The screenshot shows the dnar.ru client interface. The top navigation bar includes the dnar.ru logo, a user status bar (Пользователь: [redacted], Ваш статус: Клиент, Доступно: 0 руб.), and a "Домены" (Domains) section. Below this is a row of icons for various domain management tools: Редактирование (Editing), Продление (Renewal), Код переноса (Transfer code), Дочерние DNS-серверы для домена (Child DNS servers for domain), Автопродление (Auto-renewal), Парковка домена (Domain parking), Управление перенаправлением почты (Email forwarding management), Перенос домена на дублирующего Администратора (Domain transfer to a duplicate administrator), Справка о принадлежности домена (Domain ownership help), and Подать заявку на смену договора без смены Администратора (Submit application for contract change without administrator change).

The main content area displays the "Домен SCCRAFT.RU" (Domain SCCRAFT.RU) with a table of its details:

Имя домена	SCCRAFT.RU
Тип	CORPORATE
Статус домена	DELEGATED
Дата регистрации	03-10-2015
Продлен до	03-10-2022
DNS-серверы	ns1.fozzy.com ns2.fozzy.com
Описание домена	
Дополнительная информация	
Идентификатор Администратора (nic-hdl)	[redacted]
ФИО по-русски	Чиварзин Александр Евгеньевич
ФИО по-английски	Chivarzin Aleksandr Evgenevich
E-mail Администратора	sas1945@ya.ru [redacted]
Автоматическое продление домена	Выключено
Парковка домена	Выключено
Идентификатор договора (-MNT-R01)	[redacted]
Дата последней смены Регистратора	[redacted]
Дата последней смены Администратора	
Регистратор	R01-RU

«А» запись субдомена dz-rip.pc.sccraft.ru



The screenshot shows the cPanel interface for the 'DNS Редактор Зоны' (DNS Zone Editor). The breadcrumb trail is 'Домены / Управление зоной'. A descriptive text states: 'DNS converts domain names into computer-readable IP addresses. Use this feature to manage DNS zone'. The main heading is 'Zone Records for "sccraft.ru"'. Below this is a search input field containing 'pc.' with a clear button. A filter section shows 'Фильтр:' followed by buttons for 'Все' (selected), 'A', 'CNAME', 'MX', 'SRV', and 'TXT'. There is a 'Действия' (Actions) dropdown menu and a link for 'Email Routing Configuration'. A table displays the DNS records:

Имя	TTL	Тип	Запись
pc.sccraft.ru.	14400	A	91.77.163.54
dz-rip.pc.sccraft.ru.	14400	A	91.77.163.54

Особенности данной схемы:

1. Если прокси включён, но сервер API выключен, то клиент получит ошибку 502
2. Если сайт IIS, настроенный как прокси будет выключен, то IIS будет выдавать содержимое «Default Web Site», следовательно, в большинстве случаев при этом, клиент получит ошибку 404.

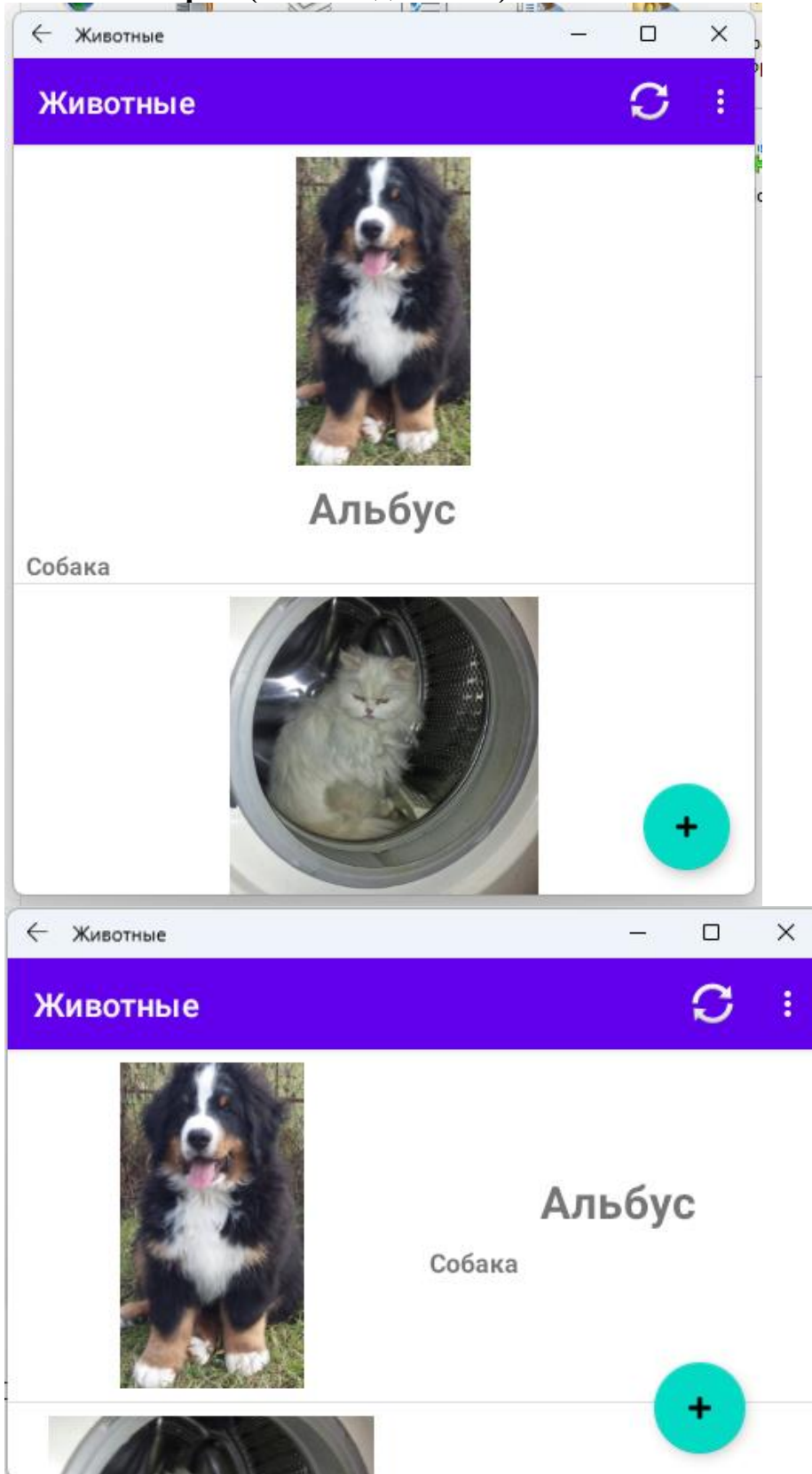
## 4. Результаты выполнения программы

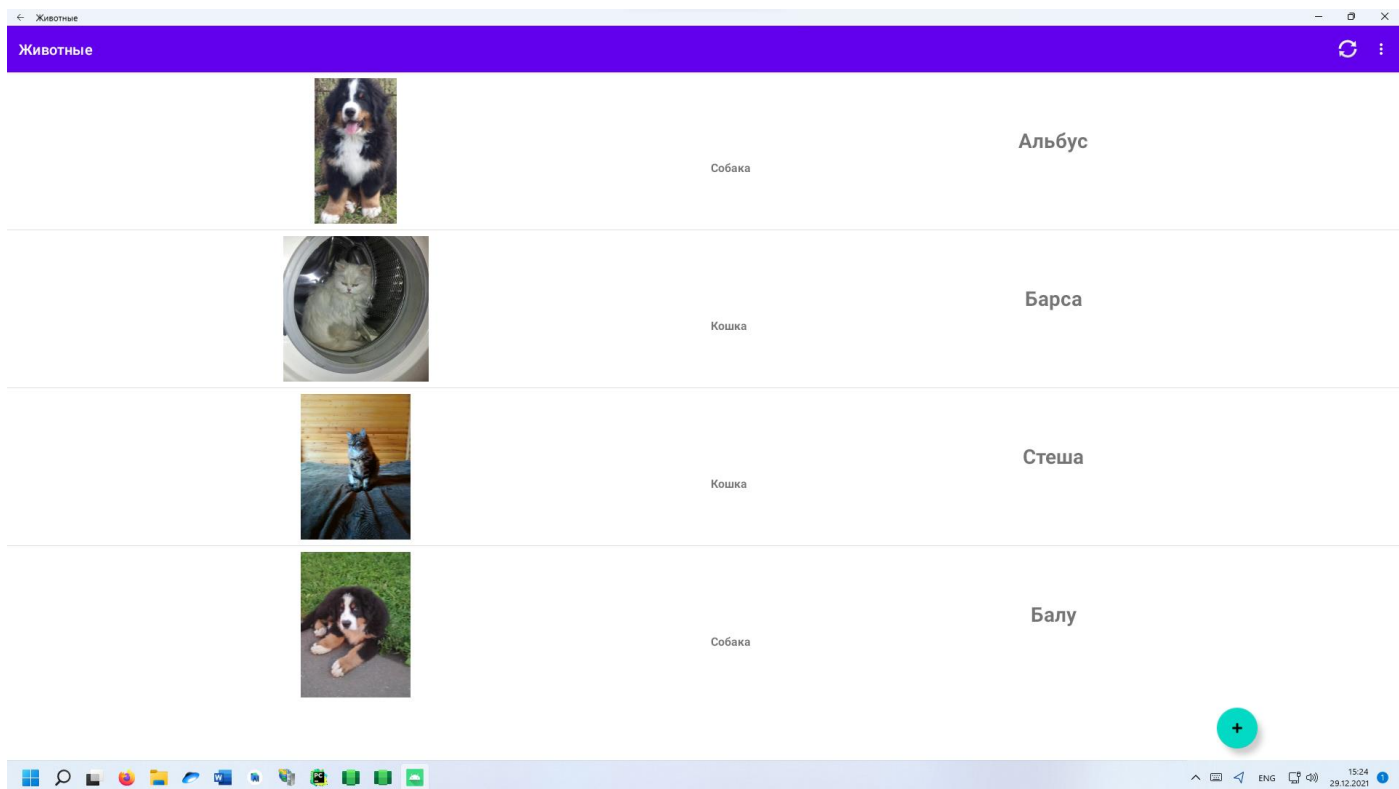
Программа тестировалась на следующих устройствах:

1. Windows 11 Subsystem for Android (только светлая тема)
2. OnePlus 7 Pro 8/256

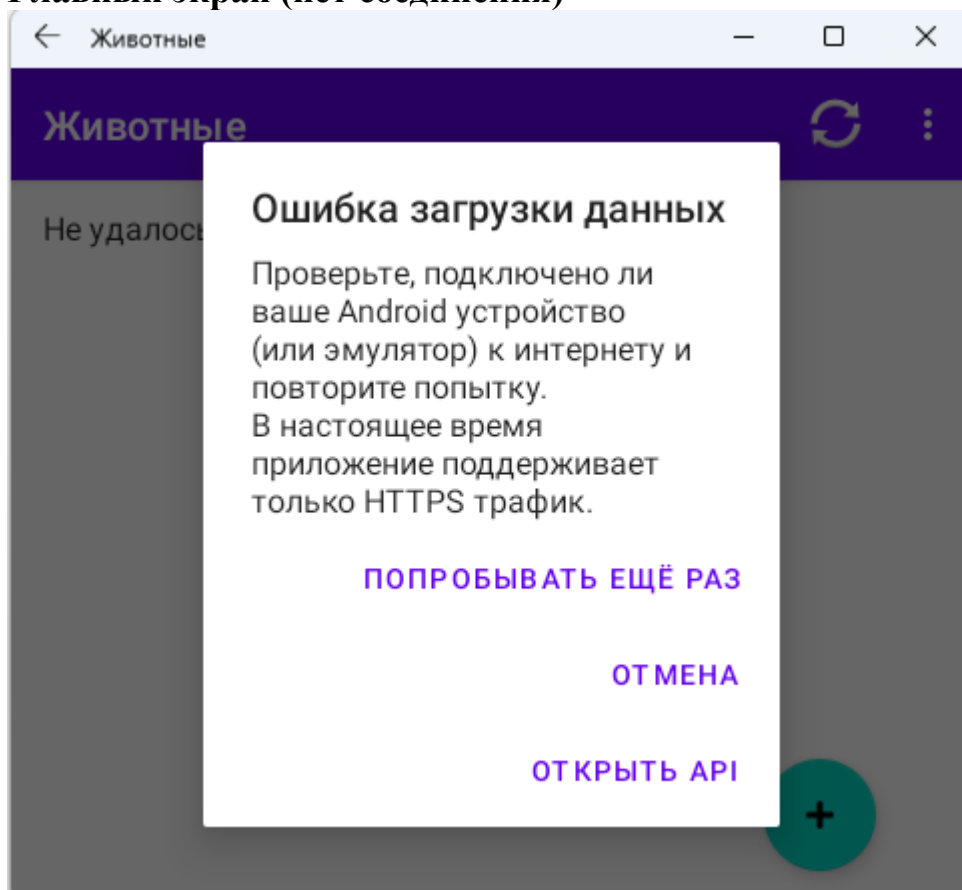
### Windows 11 Subsystem for Android

Главный экран (есть соединение)





## Главный экран (нет соединения)

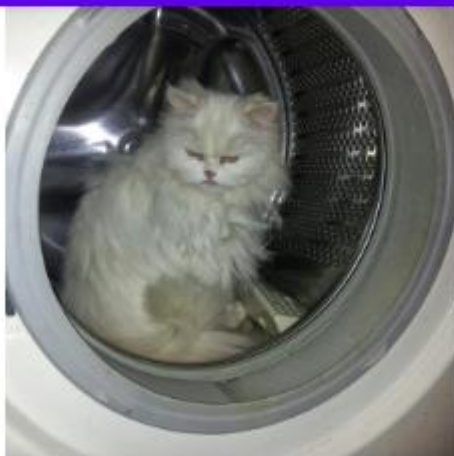


При нажатии кнопки «Попробовать ещё раз» будет выполнена повторная попытка.

Кнопка «Отмена закрывает диалог»

Кнопка «Открыть API» открывает сайт API (см. ЛР №6) в браузере.

## Информация о животном

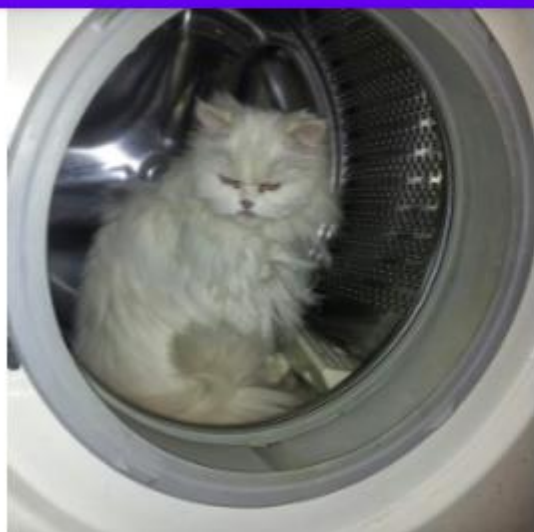
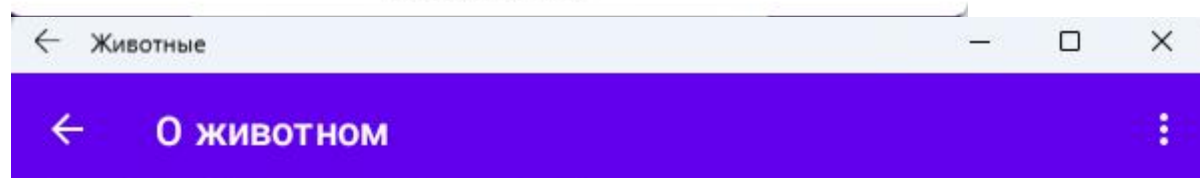


Барса

Кличка

Кошка

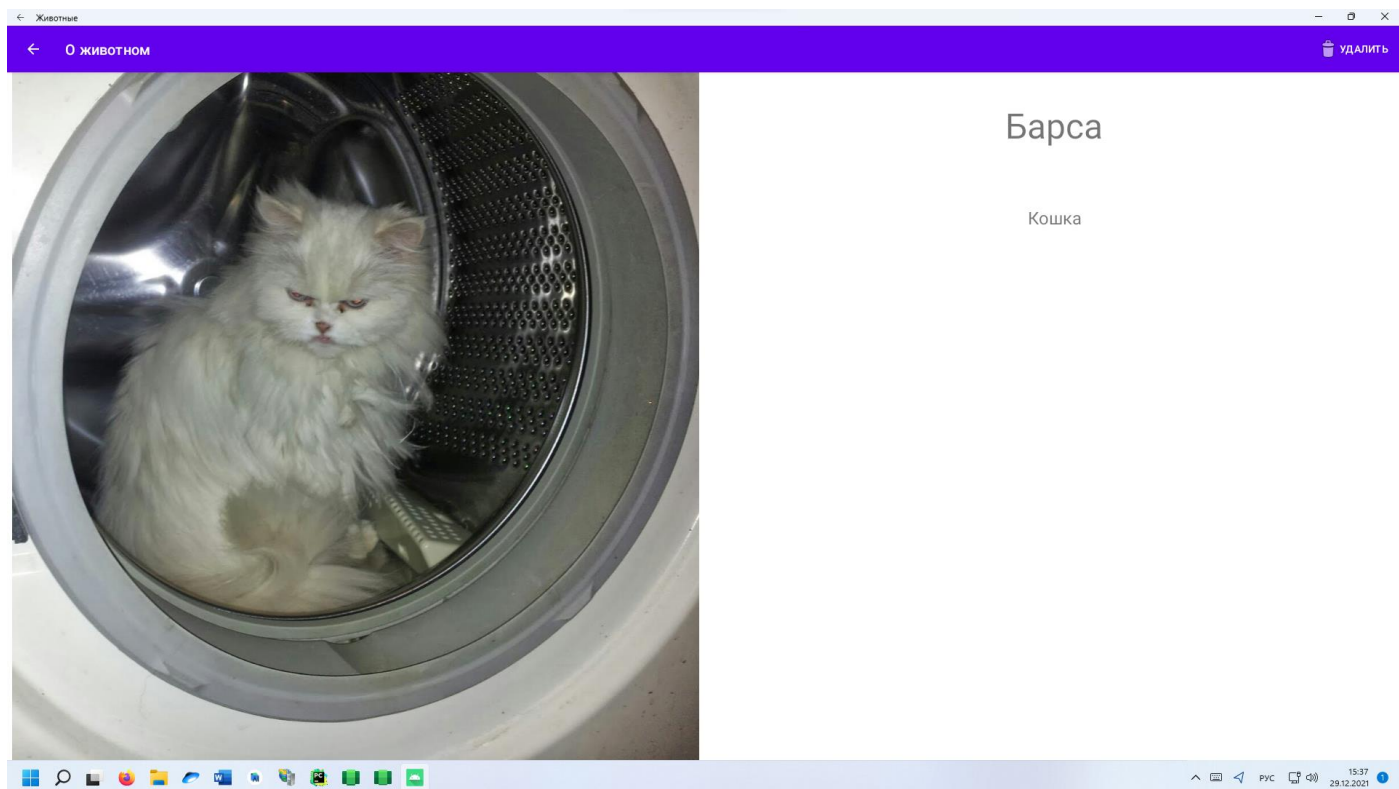
Вид животного



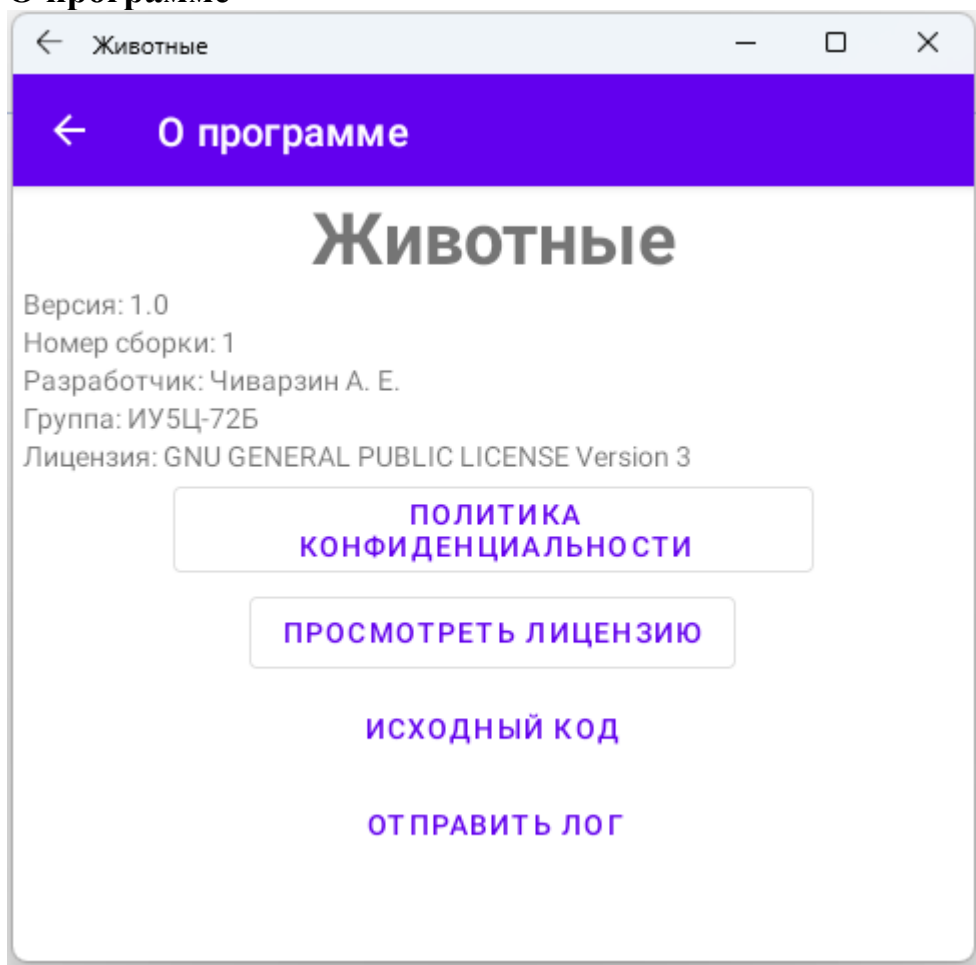
Барса

Кошка

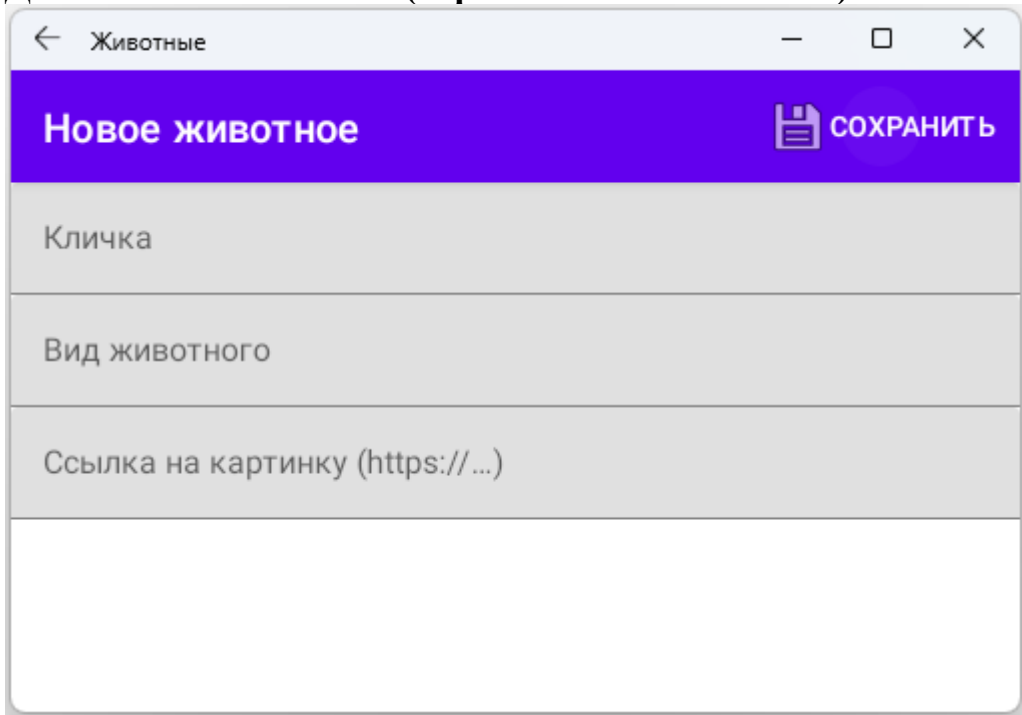




## О программе



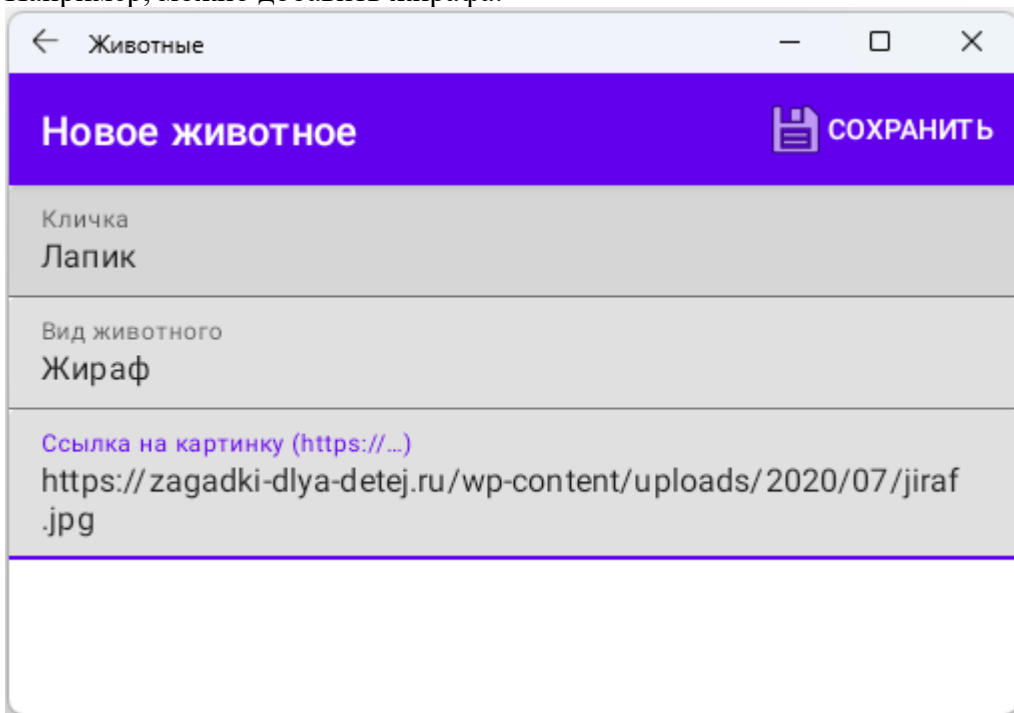
## Добавление животного (экран «Новое животное»)



Новое животное	СОХРАНИТЬ
Кличка	
Вид животного	
Ссылка на картинку (https://...)	

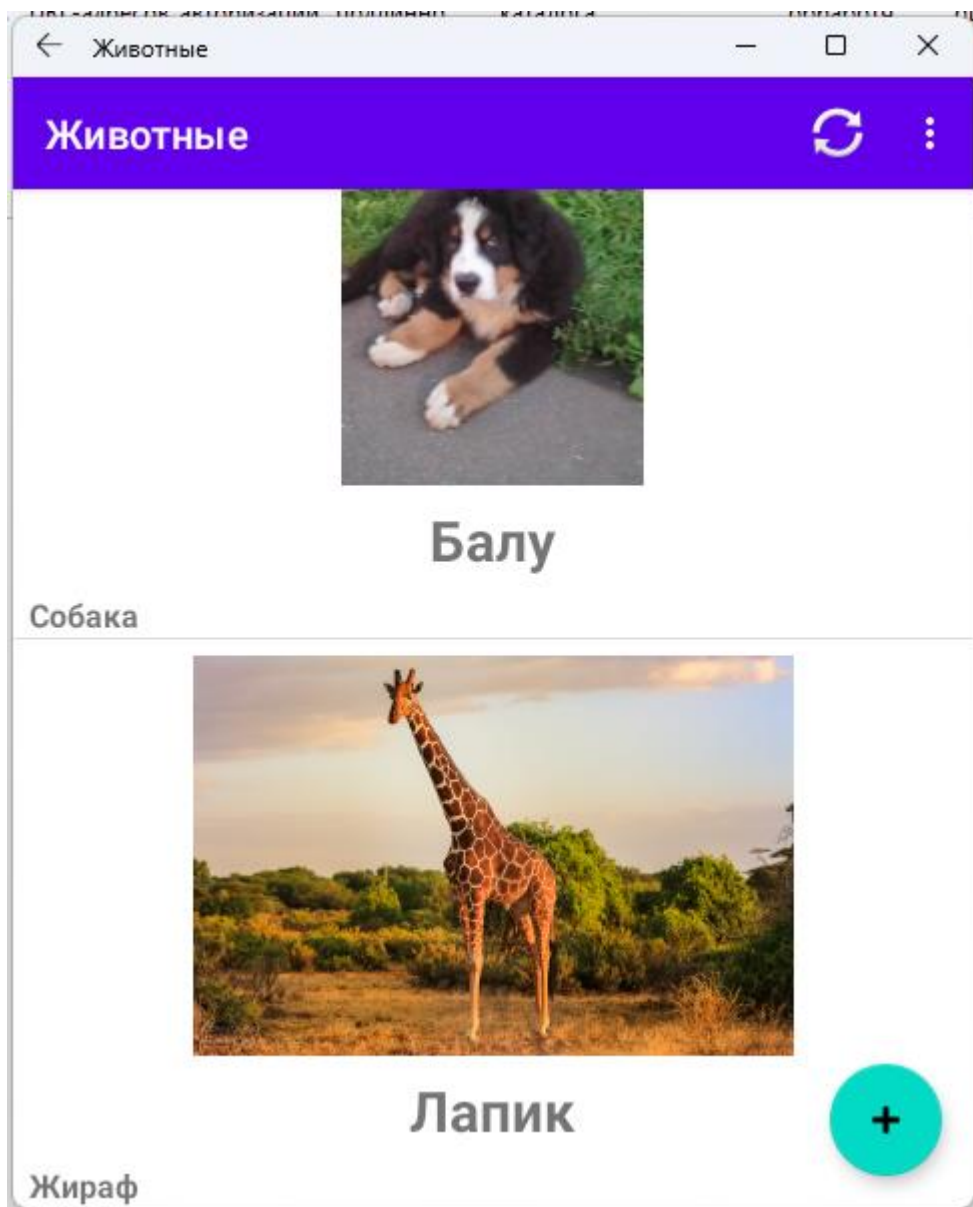
Данный экран позволяет добавить животное в приложение. Это изменение будет видно всем пользователям.

Например, можно добавить жирафа:

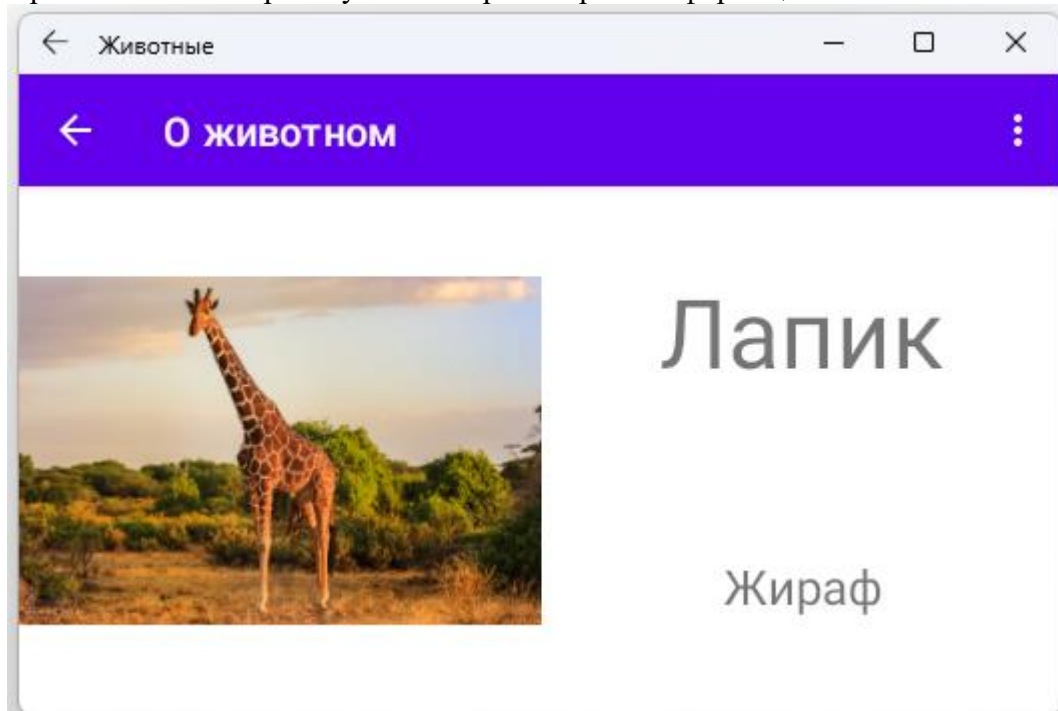


Новое животное	СОХРАНИТЬ
Кличка Лапик	
Вид животного Жираф	
Ссылка на картинку (https://...) <a href="https://zagadki-dlya-detej.ru/wp-content/uploads/2020/07/jiraf.jpg">https://zagadki-dlya-detej.ru/wp-content/uploads/2020/07/jiraf.jpg</a>	

После нажатия кнопки «Сохранить» новое животное появится в конце списка после его обновления

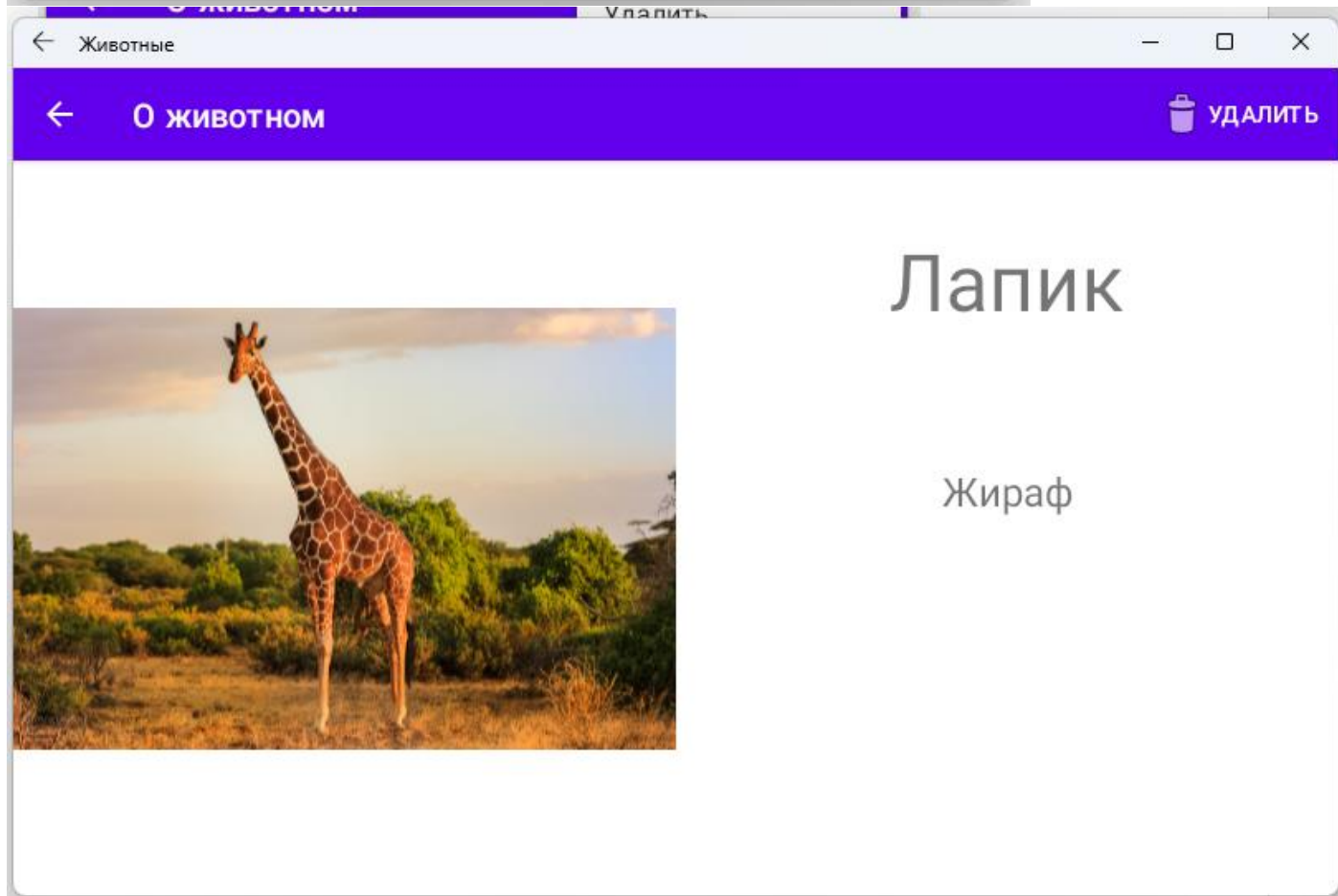
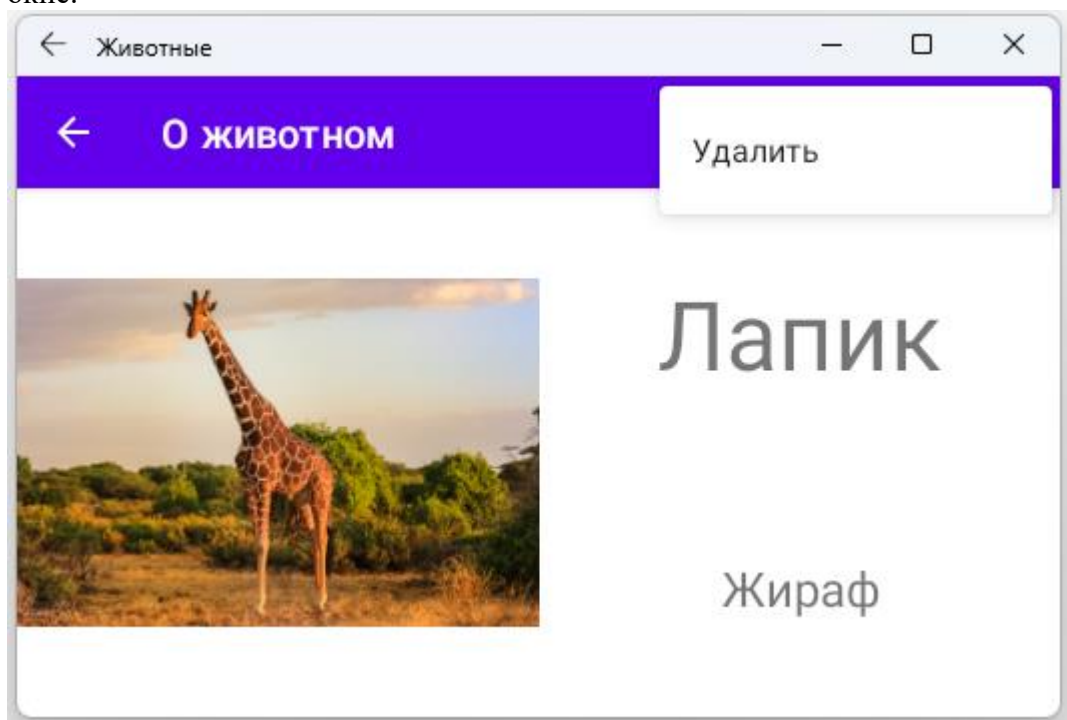


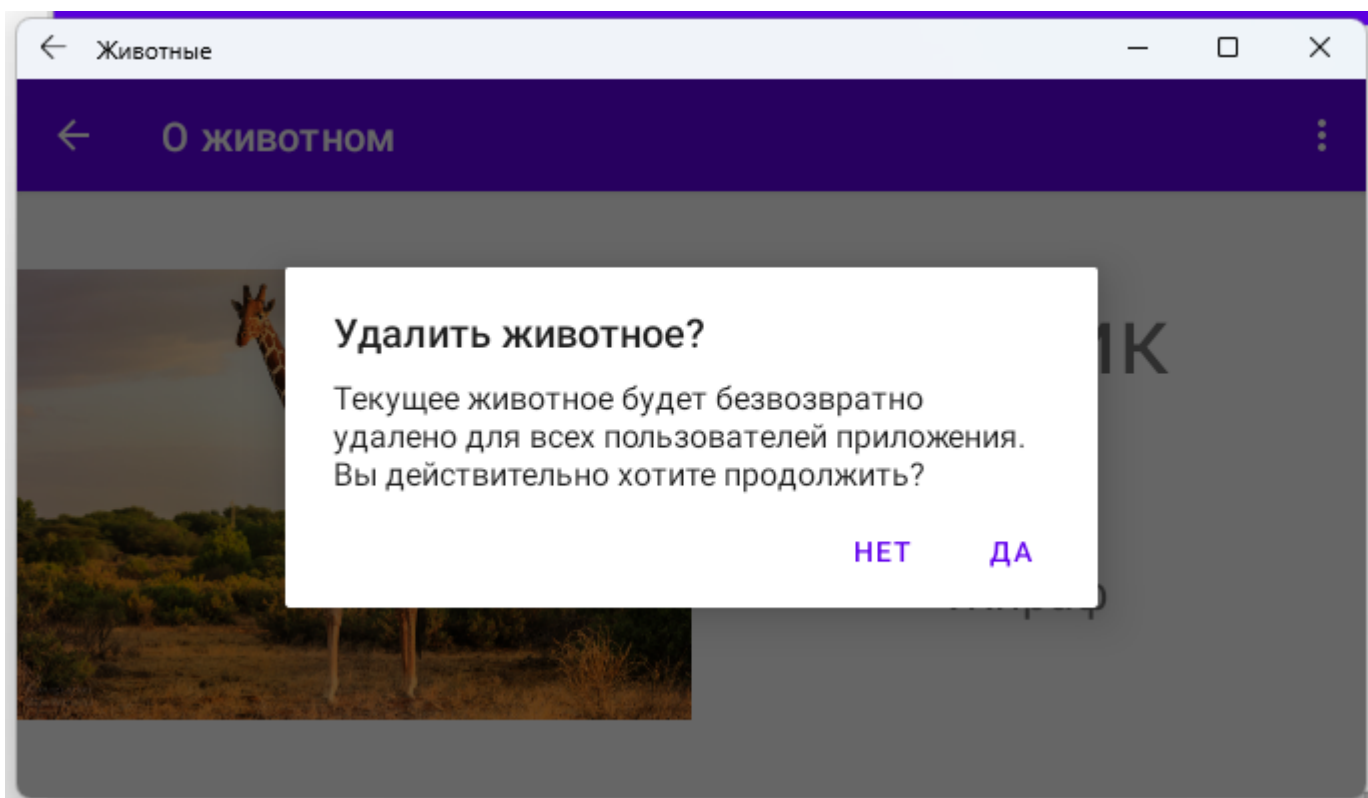
При нажатии на карточку можно просмотреть информацию о новом животном.



## Удаление животного

Для удаления животного нужно нажать на кнопку или пункт меню «Удалить» (зависит от размера экрана). После нажатия кнопки необходимо подтвердить своё согласие на удаление в диалоговом окне.



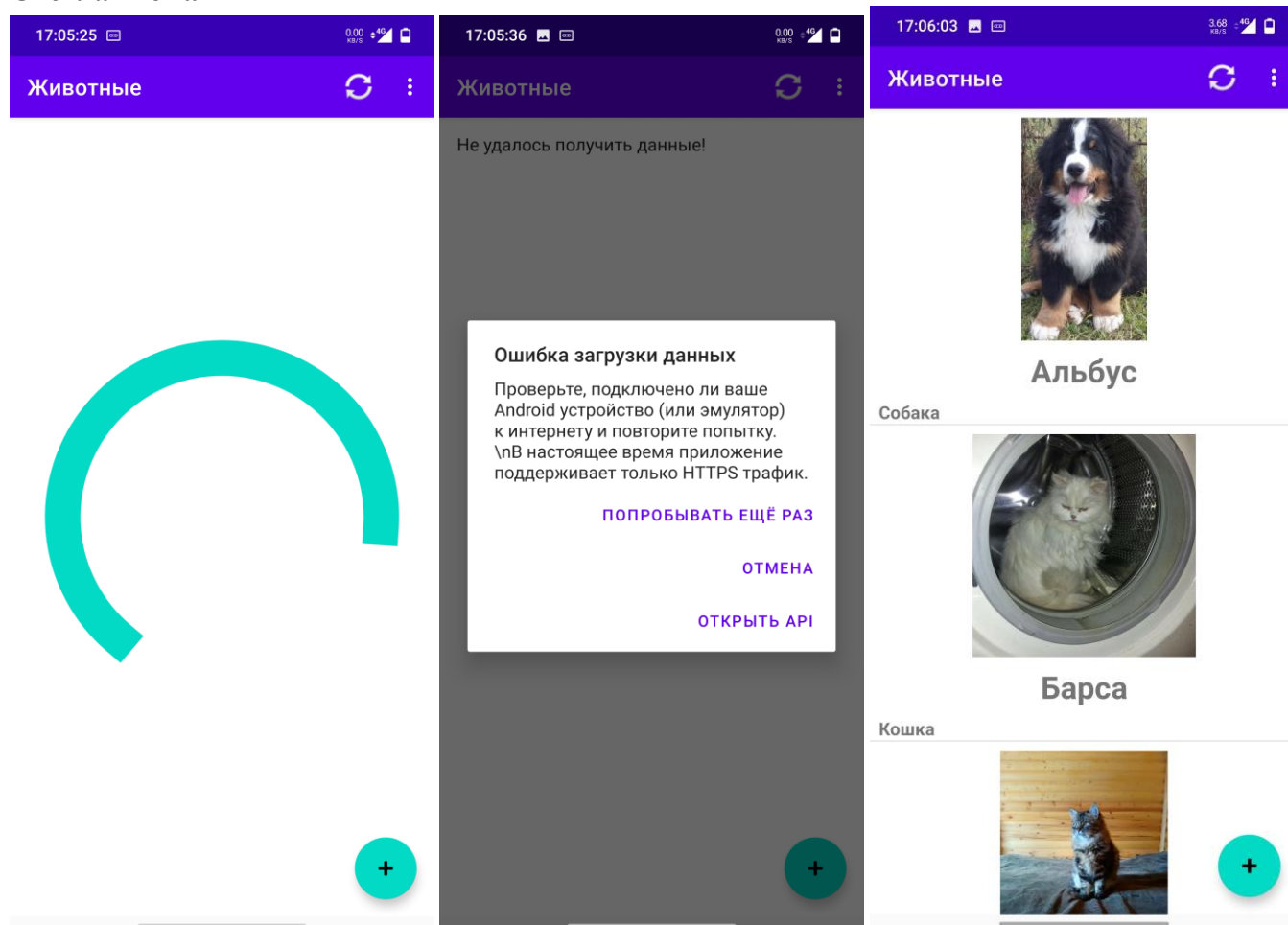


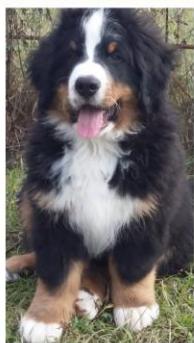
После нажатия кнопки «Да» животное удаляется из базы данных сервера.

Теперь рассмотрим работу приложения на реальном устройстве (описание скриншотов опущено, поскольку аналогично):

### **OnePlus 7 Pro 9/256**

Светлая тема





# Альбус


Собака



# Барса

Кошка

17:06:31 0.00 KB/S 4G


Новое животное

Кличка

Вид животного

Ссылка на картинку (https://...)

17:06:53 0.10 KB/S 4G

 О программе

Животные

Версия: 1.0  
Номер сборки: 1  
Разработчик: Чиварзин А. Е.  
Группа: ИУ5Ц-725  
Лицензия: GNU GENERAL PUBLIC LICENSE Version 3


ПОЛИТИКА  
КОНФИДЕНЦИАЛЬНОСТИ

ПРОСМОТРЕТЬ ЛИЦЕНЗИЮ

ИСХОДНЫЙ КОД

ОТПРАВИТЬ ЛОГ

17:07:26 0.00 KB/S 4G

 О программе

Животные


Версия: 1.0  
Номер сборки: 1  
Разработчик: Чиварзин А. Е.  
Группа: ИУ5Ц-725  
Лицензия: GNU GENERAL PUBLIC LICENSE Version 3

ПОЛИТИКА  
КОНФИДЕНЦИАЛЬНОСТИ

ПРОСМОТРЕТЬ ЛИЦЕНЗИЮ

ИСХОДНЫЙ КОД

ОТПРАВИТЬ ЛОГ


 Поделиться через Письмо себе

Только сейчас Всегда

Другое приложение

 Telegram X

 VK

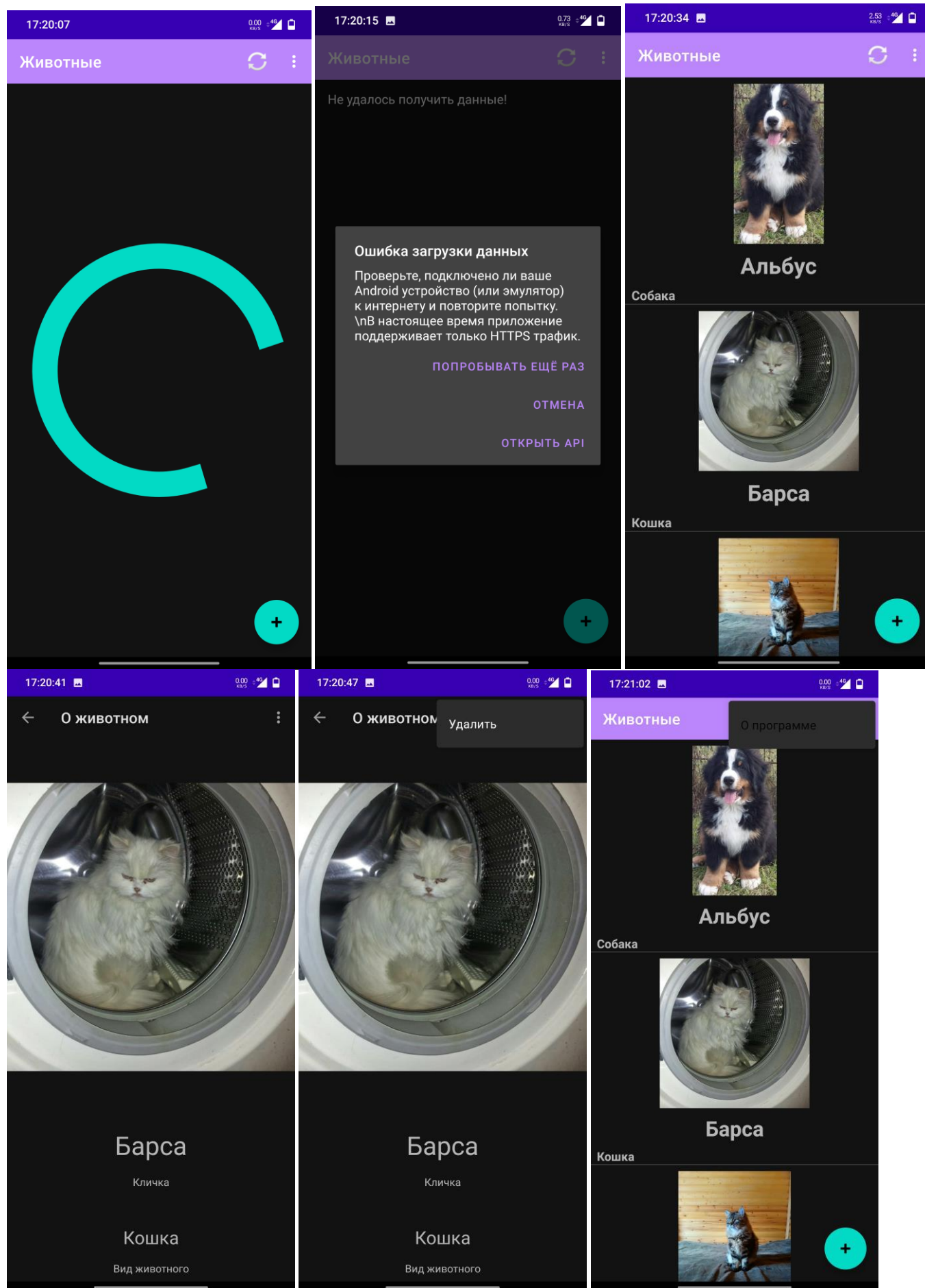
 Gmail

Данная функция предназначена только для разработчиков!



Последний скриншот показывает, что будет, если нажать кнопку «Отправить лог» пять раз не меняя параметры экрана (в том числе не поворачивая его).

### Тёмная тема





О программе

# Животные

Версия: 1.0

Номер сборки: 1

Разработчик: Чиварзин А. Е.

Группа: ИУ5Ц-72Б

Лицензия: GNU GENERAL PUBLIC LICENSE Version 3

[ПОЛИТИКА  
КОНФИДЕНЦИАЛЬНОСТИ](#)

[ПРОСМОТРЕТЬ ЛИЦЕНЗИЮ](#)

[ИСХОДНЫЙ КОД](#)

[ОТПРАВИТЬ ЛОГ](#)



## Лог, сформированный приложением (отправлен через другое приложение «VK Почта»)

```
----- beginning of perf
12-28 15:10:30.168 8299 8299 I 100 : Open
/data/app/~~P7_x_Xaa3unP9qxYFCJtvQ==/ru.sccraft.bmstulabs.rip.animals-
Kg6rYxbp-kof17bsTKSC1g==/base.apk took:169ms
12-28 15:13:05.815 8299 22034 I 111 : OptJank - continuously drops
frames:4
12-28 15:13:05.856 8299 22034 I 111 : OptJank - continuously drops
frames:4
12-28 15:13:05.954 8299 22034 I 111 : OptJank - high
percentage:0.6
12-28 15:13:06.179 8299 22034 I 111 : OptJank - high
percentage:0.45
12-28 15:13:06.190 8299 22034 I 111 : OptJank - continuously drops
frames:4
12-28 15:13:06.429 8299 22034 I 111 : OptJank - high
percentage:0.55
12-28 16:29:33.104 30135 30135 I 100 : Open
/data/app/~~P7_x_Xaa3unP9qxYFCJtvQ==/ru.sccraft.bmstulabs.rip.animals-
Kg6rYxbp-kof17bsTKSC1g==/base.apk took:161ms
12-28 16:30:06.989 30136 30136 I 100 : Open
/data/app/~~P7_x_Xaa3unP9qxYFCJtvQ==/ru.sccraft.bmstulabs.rip.animals-
Kg6rYxbp-kof17bsTKSC1g==/base.apk took:161ms
12-28 17:52:51.845 24320 24320 I 100 : Open
/data/app/~~20ywJxdDXykRWUm5EUdWyQ==/ru.sccraft.bmstulabs.rip.animals-
JLeGXq9Gq8ApHQZ_IZNl3w==/base.apk took:168ms
12-28 17:53:22.116 24321 24321 I 100 : Open
/data/app/~~20ywJxdDXykRWUm5EUdWyQ==/ru.sccraft.bmstulabs.rip.animals-
JLeGXq9Gq8ApHQZ_IZNl3w==/base.apk took:164ms
----- beginning of main
12-29 17:04:36.728 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:36.728 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:36.728 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:36.733 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:36.733 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:36.733 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:36.736 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:36.736 24321 24321 I abs.rip.animal: failed to find target
```

```

package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:36.736 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
----- beginning of system
12-29 17:04:36.774 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:04:36.775 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:04:36.817 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@9854550[MainActivity]
12-29 17:04:36.818 24321 15732 I abs.rip.animal: Waiting for a blocking
GC ProfileSaver
12-29 17:04:36.821 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:04:36.821 24321 24321 D ActivityThread: pid:24321 tid:24321
doFrame Callback
12-29 17:04:36.847 24321 15723 W abs.rip.animal: Reducing the number of
considered missed Gc histogram windows from 466 to 100
12-29 17:04:36.847 24321 15732 I abs.rip.animal: WaitForGcToComplete
blocked ProfileSaver on ProfileSaver for 29.881ms
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/ConscryptEngineSocket;-
>setUseSessionTickets(Z)V (greylist-max-q,core-platform-api, reflection,
denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/OpenSSLSocketImpl;->setUseSessionTickets(Z)V
(greylist-max-q,core-platform-api, reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/AbstractConscryptSocket;-
>setUseSessionTickets(Z)V (greylist-max-q, reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/ConscryptEngineSocket;-
>setHostname(Ljava/lang/String;)V (greylist-max-q,core-platform-api,
reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/OpenSSLSocketImpl;-
>setHostname(Ljava/lang/String;)V (greylist-max-q,core-platform-api,
reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/AbstractConscryptSocket;-
>setHostname(Ljava/lang/String;)V (greylist-max-q, reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/OpenSSLSocketImpl;->setAlpnProtocols([B)V
(greylist-max-q,core-platform-api, reflection, denied)
12-29 17:04:38.378 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/AbstractConscryptSocket;-
>setAlpnProtocols([B)V (greylist-max-q, reflection, denied)
12-29 17:04:38.569 24321 12165 W abs.rip.animal: Accessing hidden method

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Lcom/android/org/conscrypt/OpenSSLSocketImpl;-
>getAlpnSelectedProtocol()[B (greylist-max-q,core-platform-api,
reflection, denied)
12-29 17:04:38.569 24321 12165 W abs.rip.animal: Accessing hidden method
Lcom/android/org/conscrypt/AbstractConscryptSocket;-
>getAlpnSelectedProtocol()[B (greylist-max-q, reflection, denied)
12-29 17:04:38.840 24321 24321 I MainActivity: Данные из API успешно
получены!
12-29 17:04:38.879 24321 15748 W ExifInterface: Stop reading file since
a wrong offset may cause an infinite loop: 0
12-29 17:04:38.879 24321 15748 W ExifInterface: Stop reading file since
a wrong offset may cause an infinite loop: 0
12-29 17:04:39.802 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:04:40.685 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:40.685 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:40.685 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:40.724 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:04:40.725 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:04:40.778 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@46081f0[MainActivity]
12-29 17:04:40.779 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:04:40.779 24321 24321 D ActivityThread: pid:24321 tid:24321
doFrame Callback
12-29 17:04:40.894 24321 24321 I MainActivity: Данные из API успешно
получены!
12-29 17:04:41.787 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:04:58.732 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:58.732 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:58.732 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:58.736 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:58.736 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-

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framework-res.apk
12-29 17:04:58.736 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:58.738 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:04:58.738 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:04:58.738 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:04:58.772 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:04:58.773 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:04:58.824 24321 24321 D ActivityThread: pid:24321 tid:24321
doFrame Callback
12-29 17:04:58.829 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:04:58.830 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:04:58.859 24321 24321 E abs.rip.animal: Invalid ID 0x00000000.
12-29 17:04:58.868 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:04:58.868 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:04:58.898 24321 24321 W Choreographer: Already have a pending
vsync event. There should only be one at a time.
12-29 17:04:58.904 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:04:58.917 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@44e00f9[MainActivity]
12-29 17:04:58.918 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:00.319 24321 15733 D OpenGLRenderer: endAllActiveAnimators
on 0xb4000074caad91e0 (RippleDrawable) with handle 0xb4000073eaaf9160
12-29 17:05:00.345 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:05:00.346 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:00.420 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:05:00.420 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:05:00.445 24321 24321 W Choreographer: Already have a pending

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vsync event.  There should only be one at a time.
12-29 17:05:00.446 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:05:00.456 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@3fef208[MainActivity]
12-29 17:05:00.458 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:24.261 24321 15733 D OpenGLRenderer: endAllActiveAnimators
on 0xb4000074caae28d0 (RippleDrawable) with handle 0xb4000073eaae6e90
12-29 17:05:24.303 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:05:24.305 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:25.392 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:05:25.825 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:05:25.826 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:30.575 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:05:30.575 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:05:30.619 24321 24321 W Choreographer: Already have a pending
vsync event.  There should only be one at a time.
12-29 17:05:30.619 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:05:30.648 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@2e12d13[MainActivity]
12-29 17:05:30.649 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:36.342 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:05:36.695 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@2e12d13[MainActivity]
12-29 17:05:36.696 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:51.391 24321 15733 D OpenGLRenderer: endAllActiveAnimators
on 0xb4000074cabce1f0 (RippleDrawable) with handle 0xb4000073eaae0140
12-29 17:05:51.422 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:05:51.423 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:05:53.741 24321 24321 I MainActivity: Данные из API успешно

```

получены!

```
12-29 17:06:00.399 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:06:00.399 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:06:00.399 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:06:00.428 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:06:00.429 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:06:00.431 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:06:00.446 24321 24321 W Choreographer: Already have a pending
vsync event. There should only be one at a time.
12-29 17:06:00.468 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@d109bd2[AnimalInfoActivity]
12-29 17:06:00.470 24321 24321 D ViewRootImpl[AnimalInfoActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:06:01.539 24321 24321 D ViewRootImpl[AnimalInfoActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:06:01.581 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:06:01.582 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:06:03.669 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:06:04.013 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@ec7f8c[MainActivity]
12-29 17:06:04.014 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:06:06.286 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:06:06.286 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:06:06.286 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:06:06.292 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:06:06.292 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
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12-29 17:06:06.292 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:06:06.295 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/product/overlay/ProductOverlay-oneplus-
framework-res.apk
12-29 17:06:06.295 24321 24321 I abs.rip.animal: failed to find target
package for overlay /system/system_ext/overlay/CommonOverlay-oneplus-
framework-res.apk
12-29 17:06:06.295 24321 24321 I abs.rip.animal: failed to find target
package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk
12-29 17:06:06.335 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:06:06.383 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:06:06.425 24321 24321 W Choreographer: Already have a pending
vsync event. There should only be one at a time.
12-29 17:06:06.496 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@dcfd00e[MainActivity]
12-29 17:06:06.542 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:06:06.542 24321 24321 I MainActivity: Данные из API успешно
получены!
12-29 17:06:06.560 24321 15748 W ExifInterface: Stop reading file since
a wrong offset may cause an infinite loop: 0
12-29 17:06:06.560 24321 15748 W ExifInterface: Stop reading file since
a wrong offset may cause an infinite loop: 0
12-29 17:06:06.606 24321 15725 W System : A resource failed to call
release.
12-29 17:06:06.607 24321 15725 I chatty :
uid=10030(ru.sccraft.bmstulabs.rip.animals) FinalizerDaemon identical 1
line
12-29 17:06:06.607 24321 15725 W System : A resource failed to call
release.
12-29 17:06:12.666 24321 24321 D ViewRootImpl[MainActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:06:17.317 24321 24321 D ViewRootImpl[AnimalInfoActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:06:25.033 24321 24321 I TextInputLayout: EditText added is not
a TextInputEditText. Please switch to using that class instead.
12-29 17:06:25.054 24321 24321 D ViewRootImpl: support adaptive color
gamut feature!
12-29 17:06:25.042 24321 24321 I chatty :
uid=10030(ru.sccraft.bmstulabs.rip.animals) identical 1 line
12-29 17:06:25.049 24321 24321 I TextInputLayout: EditText added is not
a TextInputEditText. Please switch to using that class instead.
12-29 17:06:25.055 24321 24321 V ViewRootImpl: The specified message
queue synchronization barrier token has not been posted or has already
been removed
12-29 17:06:25.058 24321 24321 D ViewRootImpl[MainActivity]:

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windowFocusChanged hasFocus=false inTouchMode=true  
12-29 17:06:25.090 24321 24321 W Choreographer: Already have a pending vsync event. There should only be one at a time.  
12-29 17:06:25.105 24321 24321 D DecorView:  
onWindowFocusChangedFromViewRoot hasFocus: true,  
DecorView@7348cc8[AnimalAddActivity]  
12-29 17:06:25.106 24321 24321 D ViewRootImpl[AnimalAddActivity]:  
windowFocusChanged hasFocus=true inTouchMode=true  
12-29 17:06:29.240 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/product/overlay/ProductOverlay-oneplus-framework-res.apk  
12-29 17:06:29.240 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/system\_ext/overlay/CommonOverlay-oneplus-framework-res.apk  
12-29 17:06:29.240 24321 24321 I abs.rip.animal: failed to find target package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk  
12-29 17:06:29.245 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/product/overlay/ProductOverlay-oneplus-framework-res.apk  
12-29 17:06:29.245 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/system\_ext/overlay/CommonOverlay-oneplus-framework-res.apk  
12-29 17:06:29.245 24321 24321 I abs.rip.animal: failed to find target package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk  
12-29 17:06:29.249 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/product/overlay/ProductOverlay-oneplus-framework-res.apk  
12-29 17:06:29.249 24321 24321 I abs.rip.animal: failed to find target package for overlay /system/system\_ext/overlay/CommonOverlay-oneplus-framework-res.apk  
12-29 17:06:29.249 24321 24321 I abs.rip.animal: failed to find target package for overlay /odm/overlay/OdmOverlay-oneplus-framework-res.apk  
12-29 17:06:29.299 24321 24321 I TextInputLayout: EditText added is not a TextInputEditText. Please switch to using that class instead.  
12-29 17:06:29.312 24321 24321 D ViewRootImpl: support adaptive color gamut feature!  
12-29 17:06:29.312 24321 24321 V ViewRootImpl: The specified message queue synchronization barrier token has not been posted or has already been removed  
12-29 17:06:29.345 24321 24321 W Choreographer: Already have a pending vsync event. There should only be one at a time.  
12-29 17:06:29.396 24321 24321 D DecorView:  
onWindowFocusChangedFromViewRoot hasFocus: true,  
DecorView@53b5718[AnimalAddActivity]  
12-29 17:06:29.397 24321 24321 D ViewRootImpl[AnimalAddActivity]:  
windowFocusChanged hasFocus=true inTouchMode=true  
12-29 17:06:34.551 24321 24321 I MainActivity: Данные из API успешно получены!  
12-29 17:06:34.617 24321 15725 W System : A resource failed to call release.  
12-29 17:06:34.617 24321 15725 I chatty :



uid=10030(ru.sccraft.bmstulabs.rip.animals) FinalizerDaemon identical 1  
line  
12-29 17:06:34.617 24321 15725 W System : A resource failed to call  
release.  
12-29 17:06:35.845 24321 24321 E abs.rip.animal: Invalid ID 0x00000000.  
12-29 17:06:35.863 24321 24321 D ViewRootImpl: support adaptive color  
gamut feature!  
12-29 17:06:35.864 24321 24321 V ViewRootImpl: The specified message  
queue synchronization barrier token has not been posted or has already  
been removed  
12-29 17:06:35.894 24321 24321 W Choreographer: Already have a pending  
vsync event. There should only be one at a time.  
12-29 17:06:44.053 24321 24321 D ViewRootImpl[AboutActivity]:  
windowFocusChanged hasFocus=false inTouchMode=true  
12-29 17:06:44.067 24321 24321 D DecorView:  
onWindowFocusChangedFromViewRoot hasFocus: true,  
DecorView@5bc951a[MainActivity]  
12-29 17:06:44.068 24321 24321 D ViewRootImpl[MainActivity]:  
windowFocusChanged hasFocus=true inTouchMode=true  
12-29 17:06:49.149 24321 24321 D ViewRootImpl: support adaptive color  
gamut feature!  
12-29 17:06:49.149 24321 24321 V ViewRootImpl: The specified message  
queue synchronization barrier token has not been posted or has already  
been removed  
12-29 17:06:49.174 24321 24321 W Choreographer: Already have a pending  
vsync event. There should only be one at a time.  
12-29 17:06:49.178 24321 24321 D ViewRootImpl[MainActivity]:  
windowFocusChanged hasFocus=false inTouchMode=true  
12-29 17:06:49.198 24321 24321 D ViewRootImpl[PopupWindow:8df6ed8]:  
windowFocusChanged hasFocus=true inTouchMode=true  
12-29 17:06:49.801 24321 24321 D ViewRootImpl: support adaptive color  
gamut feature!  
12-29 17:06:49.802 24321 24321 V ViewRootImpl: The specified message  
queue synchronization barrier token has not been posted or has already  
been removed  
12-29 17:06:49.805 24321 24321 D ViewRootImpl[PopupWindow:8df6ed8]:  
windowFocusChanged hasFocus=false inTouchMode=true  
12-29 17:06:49.820 24321 24321 W Choreographer: Already have a pending  
vsync event. There should only be one at a time.  
12-29 17:06:49.832 24321 24321 D DecorView:  
onWindowFocusChangedFromViewRoot hasFocus: true,  
DecorView@c373efe[AboutActivity]  
12-29 17:06:49.833 24321 24321 D ViewRootImpl[AboutActivity]:  
windowFocusChanged hasFocus=true inTouchMode=true  
12-29 17:06:50.067 24321 15733 D OpenGLRenderer: endAllActiveAnimators  
on 0xb4000074cabba0 (MenuPopupWindow\$MenuDropDownListView) with handle  
0xb4000073eaaf6850  
12-29 17:06:53.562 24321 24321 D ViewRootImpl[AboutActivity]:  
windowFocusChanged hasFocus=false inTouchMode=true  
12-29 17:06:53.918 24321 24321 D DecorView:  
onWindowFocusChangedFromViewRoot hasFocus: true,

```
DecorView@c373efe[AboutActivity]
12-29 17:06:53.919 24321 24321 D ViewRootImpl[AboutActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
12-29 17:07:02.201 24321 24321 D ViewRootImpl[AboutActivity]:
windowFocusChanged hasFocus=false inTouchMode=true
12-29 17:07:28.546 24321 24321 D DecorView:
onWindowFocusChangedFromViewRoot hasFocus: true,
DecorView@c373efe[AboutActivity]
12-29 17:07:28.547 24321 24321 D ViewRootImpl[AboutActivity]:
windowFocusChanged hasFocus=true inTouchMode=true
null
```

## Лог API

```
"A:\sasha\YandexDisk\МГТУ\7-й
семестр\РИП\ЛР\Py\LAB_6\venv\Scripts\python.exe"
"A:/sasha/YandexDisk/МГТУ/7-й семестр/РИП/ЛР/Py/LAB_6/manage.py"
runserver 8000
Performing system checks...
```

```
Watching for file changes with StatReloader
System check identified no issues (0 silenced).
December 29, 2021 - 17:51:09
Django version 3.2.9, using settings 'LAB_6.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[29/Dec/2021 17:55:18] "GET /animals HTTP/1.1" 301 0
[29/Dec/2021 17:55:19] "GET /animals/ HTTP/1.1" 200 525
Bad Request: /animals/
[29/Dec/2021 17:55:48] "POST /animals/ HTTP/1.1" 400 61
Bad Request: /animals/
[29/Dec/2021 17:56:06] "POST /animals/ HTTP/1.1" 400 61
[29/Dec/2021 17:56:33] "GET /animals HTTP/1.1" 301 0
[29/Dec/2021 17:56:33] "GET /animals/ HTTP/1.1" 200 525
[29/Dec/2021 17:57:29] "POST /animals/ HTTP/1.1" 201 156
[29/Dec/2021 17:57:39] "GET /animals HTTP/1.1" 301 0
[29/Dec/2021 17:57:39] "GET /animals/ HTTP/1.1" 200 682
[29/Dec/2021 17:57:50] "DELETE /animals/13/ HTTP/1.1" 204 0
[29/Dec/2021 17:57:53] "GET /animals HTTP/1.1" 301 0
[29/Dec/2021 17:57:53] "GET /animals/ HTTP/1.1" 200 525
```