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Разраб	домашнему задані отка интернет-при ГУИМЦ	иложений	
Тема работы: '	' Разработка моби	льного прило	'' кинэж
	55 (количество листов) <u>Вариант № 1</u>		
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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"</pre>
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"</pre>
stopProcessing="true">
                    <match url="(.*)" />
                    <action type="Redirect" url="https://dz-</pre>
rip.pc.sccraft.ru" />
                </rule>
            </rules>
            <outboundRules>
                <preConditions>
                    <preCondition name="ResponseIsHtml1">
                         <add input="{RESPONSE CONTENT TYPE}"</pre>
pattern="^text/html" />
                         <add input="{RESPONSE CONTENT TYPE}"
pattern="^application/json" />
                    condition>
                onditions>
            </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 суюдлмен 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 АРІ()
    }
    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 АРІ()
                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 АРІ 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 АРІ()
        }
        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 АРІ)
            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 = lInflater.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/AnimalAddActivit y.kt

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

```
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 РОЅТ 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/AnimalInfoActivi ty.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.Menu
```

```
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 Notor : AsyncTask<Void, Void, Int>() {
            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 notok = Notok()
       norok.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 ->
           builder.setOnCancelListener { dialogInterface: DialogInterface -
           показывать диалог удаления = false
       }
       builder.show()
   }
}
```

app/src/main/java/ru/sccraft/bmstulabs/rip/animals/JSONPlaceHolderA pi.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.j ava

```
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.http.Body
import retrofit2.http.Headers
import retrofit2.http.POST
```

```
import retrofit2.Call
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

```
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
```

package ru.sccraft.bmstulabs.rip.animals

```
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 = OL //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 notok = Notok()
        поток.execute()
    }
    fun privacy(view: View) {
        val ссылка на политику конфиденциальности =
Uri.parse("https://github.com/sashagwert/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/sashagwert/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"</pre>
    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">Попробывать ещё pas</string>
    <string name="activity animal add">Новое животное</string>
    <string name="fail add animal">Не удалось добавить новое
животное!</string>
```

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

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

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

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

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

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

app/src/main/res/menu-large/menu_animal_info.xml

app/src/main/res/menu-xlarge/menu_animal_info.xml

```
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"</pre>
    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"
```

<com.google.android.material.textfield.TextInputLayout</pre>

tools:context=".AnimalAddActivity">

```
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</pre>
        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</pre>
        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</pre>
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</pre>
```

app:layout constraintBottom toTopOf="@+id/info animal name"

android:id="@+id/info animal photo"

android:layout marginBottom="8dp"

app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"

android:layout_width="0dp"
android:layout height="0dp"

```
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="ДогоКэт" />
<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</pre>
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</pre>
        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="ДогоКэт" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

app/src/main/res/layout/activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout</pre>
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</pre>
        android:layout width="match parent"
        android:layout height="wrap content"
        android:theme="@style/Theme.Животные.AppBarOverlay">
        <androidx.appcompat.widget.Toolbar</pre>
            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</pre>
        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

```
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</pre>
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</pre>
            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" />
```

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"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:orientation="horizontal">
    <ImageView</pre>
        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</pre>
        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.
```

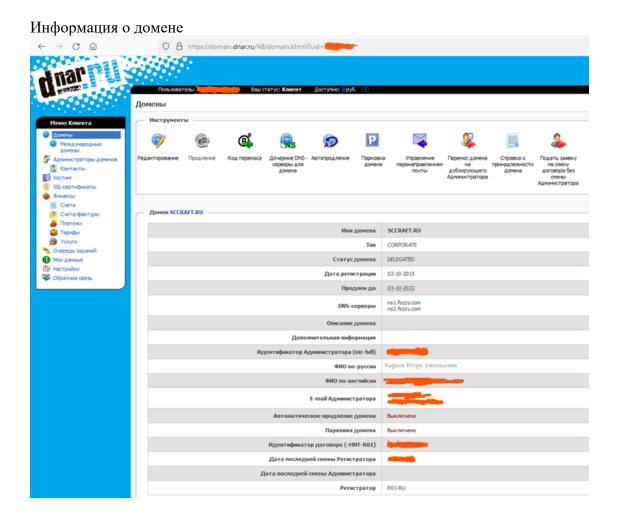
sdk.dir=C\:\\Users\\sasha\\AppData\\Local\\Android\\Sdk

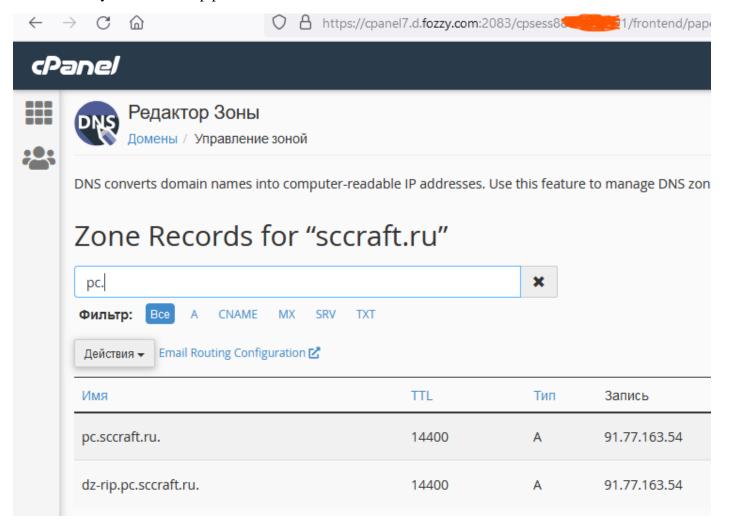
3. Связь приложения с АРІ по доменному имени

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





Особенности данной схемы:

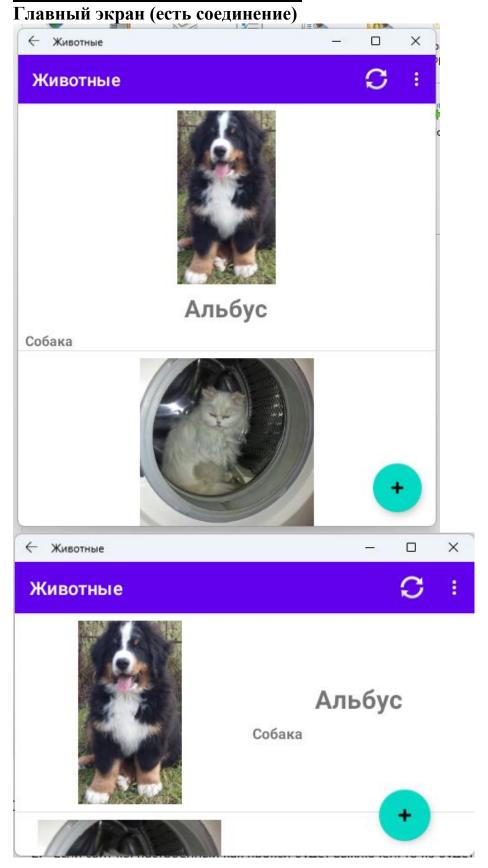
- 1. Если прокси включён, но сервер АРІ выключен, то клиент получит ошибку 502
- 2. Если сайт IIS, настроенный как прокси будет выключен, то IIS будет выдавать содержимое «Default Web Site», следовательно, в большинстве случаев при этом, клиент получит ошибку 404.

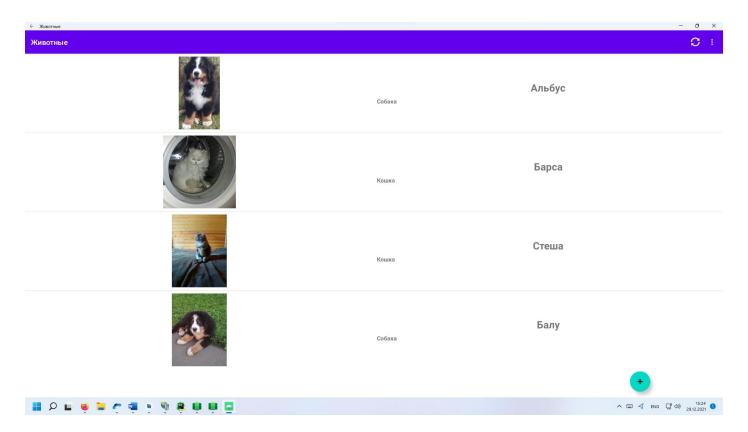
4. Результаты выполнения программы

Программа тестировалась на следующих устройствах:

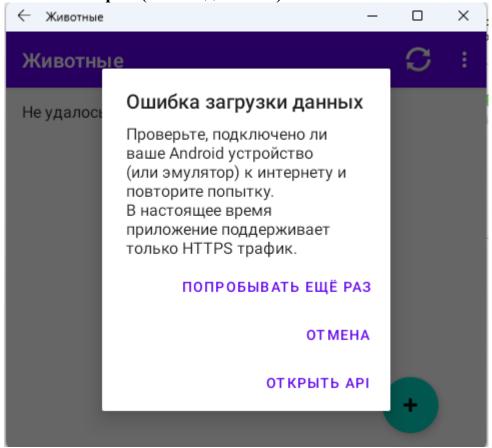
1. Windows 11 Subsystem for Android (только светлая тема)

Windows 11 Subsystem for Android





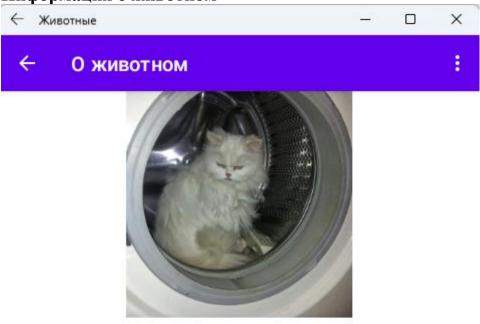
Главный экран (нет соединения)



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

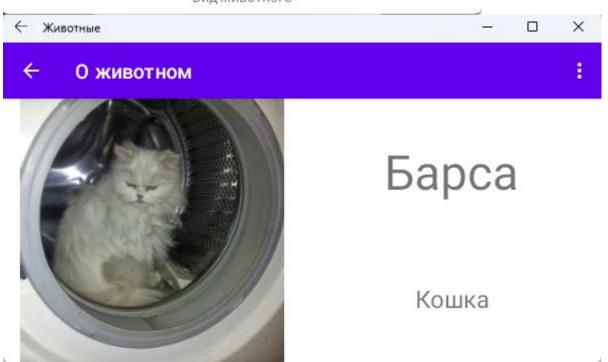


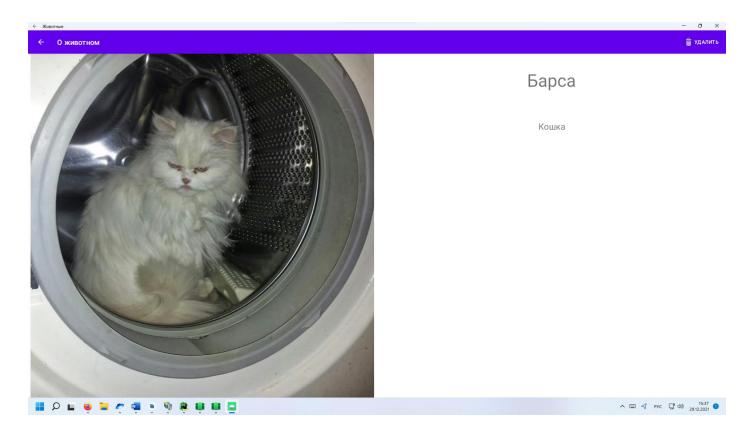
Барса

Кличка

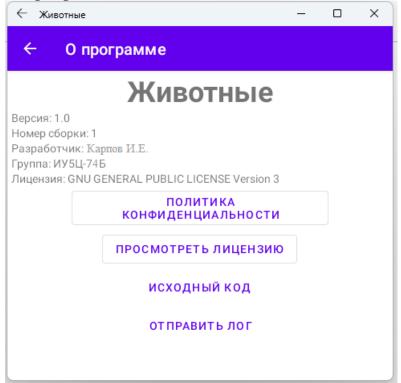
Кошка

Вид животного

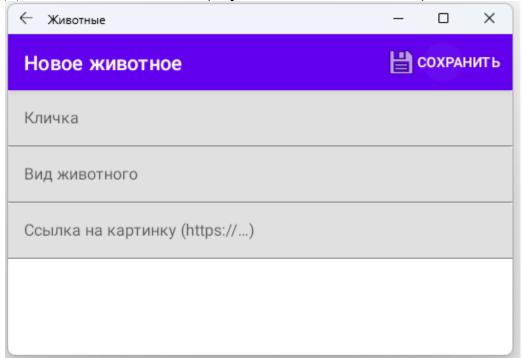




О программе

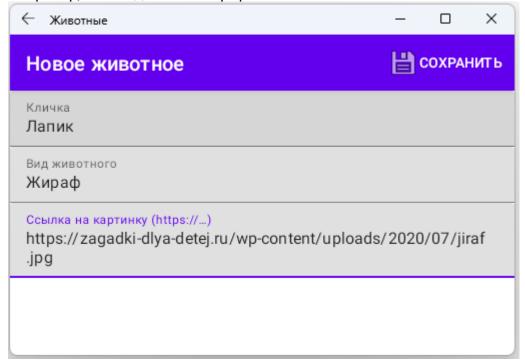


Добавление животного (экран «Новое животное»)

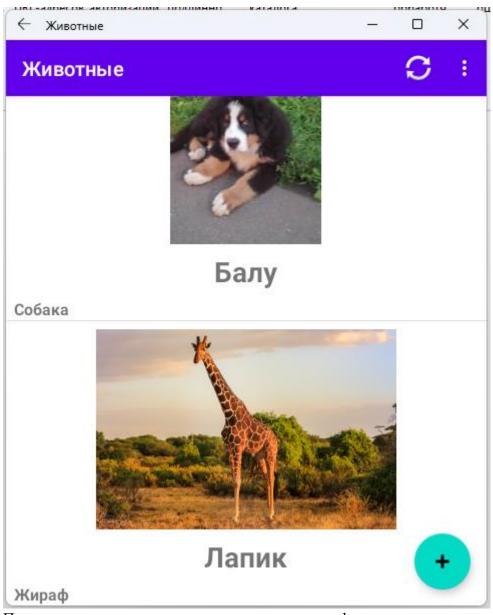


Данный экран позволяет добавить животное в приложение. Это изменение будет видно всем пользователям.

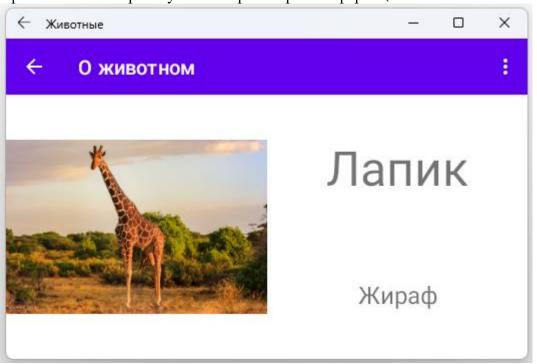
Например, можно добавить жирафа:



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

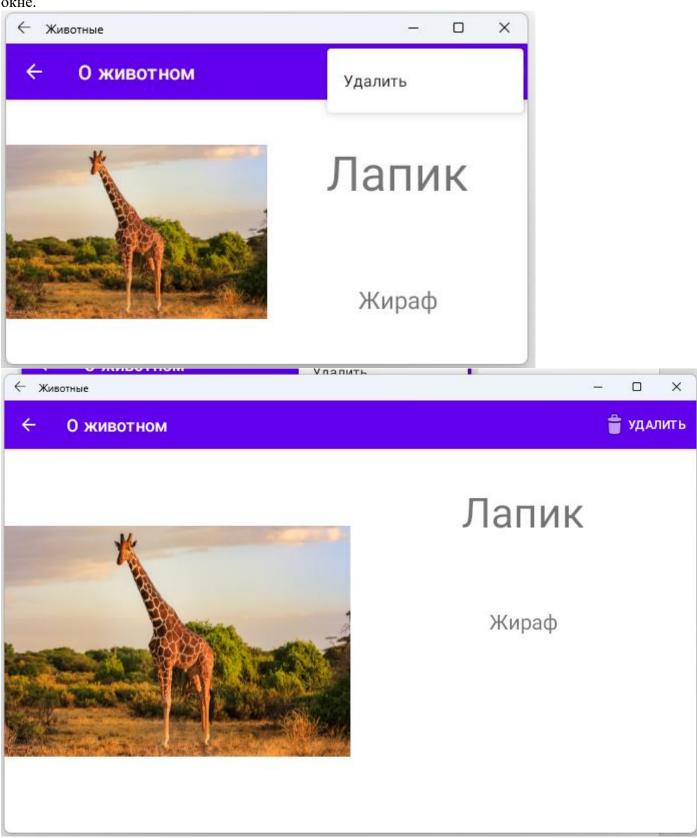


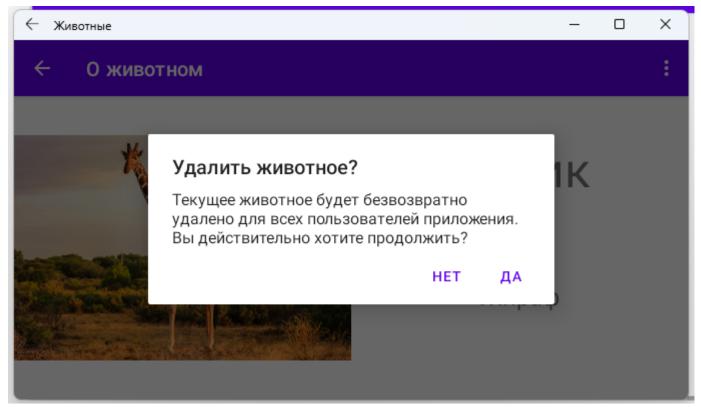
При нажатии на карточку можно просмотреть информацию о новом животном.



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 анологично):

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 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-
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
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
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
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
12-29 17:06:06.560 24321 15748 W ExifInterface: Stop reading file since
a wrong offset may cause an infinite loop: 0
```

```
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]:
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
- 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 0xb4000074cabbafc0 (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 АРІ

"A:\sasha\YandexDisk\MГТУ\7-й

```
семестр\РИП\ЛР\Ру\LAB 6\venv\Scripts\python.exe"
"A:/sasha/YandexDisk/MГТУ/7-й семестр/РИП/ЛР/Ру/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
```