

Практическая работа 7

Цель: Работа со списком ListView

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Задание:

activity_main.xml файл:

```
<?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="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/lvMain"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

</LinearLayout>
```

MainActivity.kt:

```
package com.example.listview

import android.os.Bundle
import android.widget.ListView
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        //Создание листа, для вывода этих данных в список
        val items = listOf(
            ListItem(R.drawable.cat, "Hello", "Action1"),
            ListItem(R.drawable.cat, "H", "Action2"),
            ListItem(R.drawable.cat, "AAA", "Action3"),
            ListItem(R.drawable.cat, "HHHH", "Action4"),
            ListItem(R.drawable.cat, "SSSS", "Action5"),
            ListItem(R.drawable.cat, "IIIII", "Action6")
        )

        val listView: ListView = findViewById(R.id.lvMain)
        val adapter = AdapterList(this, items)
        listView.adapter = adapter

        //Добавление кликабельности объектов в списке listView
        listView.setOnItemClickListener { parent, view, position, id ->
            val selectedItem = items[position]

            when(selectedItem.action){
                "Action1" -> {
                    Toast.makeText(this, "Первый элемент списка",
                        Toast.LENGTH_SHORT).show()
                }
                "Action2" -> {
                    Toast.makeText(this, "Второй элемент списка",
```

```

Toast.LENGTH_SHORT).show()
    }
    "Action3" -> {
        Toast.makeText(this, "Третий элемент списка",
Toast.LENGTH_SHORT).show()
    }
    }
}
}
}
}

```

list_item.xml файл:

```

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

    <ImageView
        android:id="@+id/ImageView"
        android:layout_width="50dp"
        android:layout_height="50dp"
        android:layout_margin="15dp"
        android:src="@drawable/cat" />

    <TextView
        android:id="@+id/tvList"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Тут будет текст"
        android:textSize="30sp"
        android:layout_margin="15dp"/>

</LinearLayout>

```

ListItem.kt:

```

package com.example.listview

data class ListItem(val imageR: Int, val text: String, val action: String)

```

AdapterList.kt:

```

package com.example.listview

import android.content.Context
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ArrayAdapter
import android.widget.ImageView
import android.widget.TextView

class AdapterList(context: Context, private val items: List<ListItem>) :
    ArrayAdapter<ListItem>(context, 0, items) {

    override fun getView(position: Int, convertView: View?, parent:
ViewGroup): View {
        val item = getItem(position)

```

```

        val view = convertView ?: LayoutInflater.from(context)
            .inflate(R.layout.list_item, parent, false)

        val imageView = view.findViewById<ImageView>(R.id.imageView)
        val textView = view.findViewById<TextView>(R.id.tvList)

        imageView.setImageResource(item!!.imageR)
        textView.text = item.text

        return view
    }
}

```

strings.xml:

```

<resources>
    <string name="app_name">ListView</string>
</resources>

```

AndroidManifest.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.listview">

    <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.AppCompat.Light.NoActionBar">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>

```

build.gradle.kts:

```

plugins {
    id("com.android.application")
    id("org.jetbrains.kotlin.android")
}

android {
    namespace = "com.example.listview"
    compileSdk = 34

    defaultConfig {
        applicationId = "com.example.listview"
        minSdk = 24
        targetSdk = 34
        versionCode = 1
        versionName = "1.0"
    }
}

```

```

buildTypes {
    release {
        isMinifyEnabled = 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"
}
}

dependencies {
    implementation("androidx.appcompat:appcompat:1.6.1")
    implementation("androidx.core:core-ktx:1.12.0")
}

```

Результат:

