

ПРАКТИЧЕСКАЯ РАБОТА №8

1. activity_main.xml:

```
dogAdapter.kt  </> activity_main.xml  x  MainActivity.kt  dogDataClass.kt
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      xmlns:tools="http://schemas.android.com/tools"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      tools:context=".MainActivity">
9
10     <androidx.recyclerview.widget.RecyclerView
11         android:id="@+id/newRecyclerView"
12         android:layout_width="match_parent"
13         android:layout_height="match_parent"
14         android:layout_marginStart="8dp"
15         android:layout_marginTop="8dp"
16         android:layout_marginEnd="8dp"
17         app:layout_constraintEnd_toEndOf="parent"
18         app:layout_constraintStart_toStartOf="parent"
19         app:layout_constraintTop_toTopOf="parent" />
20 </androidx.constraintlayout.widget.ConstraintLayout>
```

2. list_item.xml: для дизайна элемента списка.

```
dogAdapter.kt  dog_item.xml  activity_main.xml  MainActivity.kt
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      android:layout_width="match_parent"
6      android:layout_height="wrap_content"
7      android:padding="8dp">
8
9      <com.google.android.material.imageview.ShapeableImageView
10         android:id="@+id/imageDog"
11         android:layout_width="80dp"
12         android:layout_height="80dp"
13         app:layout_constraintStart_toStartOf="parent"
14         app:layout_constraintTop_toTopOf="parent" />
15
16      <TextView
17         android:id="@+id/txtTitle"
18         android:layout_width="0dp"
19         android:layout_height="wrap_content"
20         android:layout_marginStart="20dp"
21         android:text="Название Собаки"
22         android:textColor="@color/black"
23         android:textSize="16sp"
24         android:textStyle="bold"
25         app:layout_constraintEnd_toEndOf="parent"
26         app:layout_constraintStart_toEndOf="@+id/imageDog"
27         app:layout_constraintTop_toTopOf="parent" />
28
29      <TextView
30         android:id="@+id/txtDescription"
31         android:layout_width="0dp"
32         android:layout_height="wrap_content"
33         android:layout_marginStart="20dp"
34         android:layout_marginTop="8dp"
35         android:text="Описание собаки"
36         android:textColor="@color/black"
37         android:textSize="14sp"
38         app:layout_constraintEnd_toEndOf="parent"
39         app:layout_constraintStart_toEndOf="@+id/imageDog"
40         app:layout_constraintTop_toBottomOf="@+id/txtTitle" />
41  </androidx.constraintlayout.widget.ConstraintLayout>
```

3. data class:

```
Adapter.kt  dogDataClass.kt  dog_item.xml  activity_main.xml  MainActivity.kt
data class DogDataClass(var imageResource: Int, var title: String, var description: String)
```

4. adapter:

```
adapter.kt  dogDataClass.kt  dog_item.xml  activity_main.xml  MainActivity.kt  strings.xml
import ...

class DogAdapter(private val dogList: ArrayList<DogDataClass>) :
    RecyclerView.Adapter<DogAdapter.DogViewHolder>() {
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): DogViewHolder {
        val itemView = LayoutInflater.from(parent.context).inflate(R.layout.dog_item, parent, attachToRoot: false)
        return DogViewHolder(itemView)
    }
    override fun getItemCount(): Int {
        return dogList.size
    }
    override fun onBindViewHolder(holder: DogViewHolder, position: Int) {
        val currentItem = dogList[position]
        holder.imageView.setImageResource(currentItem.imageResource)
        holder.txtTitle.text = currentItem.title
        holder.txtDescription.text = currentItem.description
        holder.itemView.setOnClickListener {
            Toast.makeText(holder.itemView.context, text: "Вы нажали на ${currentItem.title}", Toast.LENGTH_SHORT).show()
        }
    }
}

class DogViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) {
    val imageView: ShapeableImageView = itemView.findViewById(R.id.imageDog)
    val txtTitle: TextView = itemView.findViewById(R.id.txtTitle)
    val txtDescription: TextView = itemView.findViewById(R.id.txtDescription)
}
}
```

5. MainActivity.kt

```
import ...

class MainActivity : AppCompatActivity() {
    private lateinit var recyclerView: RecyclerView
    private lateinit var dogArrayList: ArrayList<DogDataClass>
    private lateinit var imageIds: Array<Int>
    private lateinit var titles: Array<String>
    private lateinit var descriptions: Array<String>
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        recyclerView = findViewById(R.id.newRecyclerView)
        recyclerView.layoutManager = LinearLayoutManager(context: this)
        recyclerView.setHasFixedSize(true)
        imageIds = arrayOf(R.drawable.fon1, R.drawable.fon2, R.drawable.fon3)
        titles = resources.getStringArray(R.array.dog_titles)
        descriptions = resources.getStringArray(R.array.dog_descriptions)
        dogArrayList = arrayListOf()
        getDogData()
        recyclerView.adapter = DogAdapter(dogArrayList)
    }
    private fun getDogData() {
        for (i in imageIds.indices) {
            val dog = DogDataClass(imageIds[i], titles[i], descriptions[i])
            dogArrayList.add(dog)
        }
    }
}
```

6. Работа приложения

