

developers

平台Android StudioGoogle PlayJetpackKotlin文档新闻

搜索

中文 - 简体

凡纳

第5课: 布局

构建一款 Tip Calculator 应用, 首先构建布局, 然后实现根据用户输入来计算小费的逻辑。接下来, 使用 Android 中的 RecyclerView widget 创建一款应用, 该应用会显示一个可滚动列表。

3 项活动 • 1 个测验

5

第5课: 布局

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为 Android 创建 XML 布局

CodeLab
- ✓

计算小费

CodeLab
- ✓

使用 RecyclerView 显示可滚动列表

CodeLab

activity_main.xml × strings.xml × build.gradle (app) × MainActivity.kt ×

lateinit var binding: ActivityMainBinding

```
1 override fun onCreate(savedInstanceState: Bundle?) {
2     super.onCreate(savedInstanceState)
3     binding = ActivityMainBinding.inflate(layoutInflater)
4     setContentView(binding.root)
5     binding.calculateButton.setOnClickListener { calculateTip() }
6 }
7
8 fun calculateTip() {
9     val stringInTextField = binding.costOfService.text.toString()
10    val cost = stringInTextField.toDoubleOrNull()
11    if (cost == null) {
12        binding.tipResult.text = ""
13        return
14    }
15    val selectedId = binding.tipOptions.checkedRadioButtonId
16    val tipPercentage = when (selectedId) {
17        R.id.option_twenty_percent -> 0.20
18        R.id.option_eighteen_percent -> 0.18
19        else -> 0.15
20    }
21    var tip = tipPercentage * cost
22    val roundUp = binding.roundUpSwitch.isChecked
23    if (roundUp) {
24        tip = kotlin.math.ceil(tip)
25    }
26    val formattedTip = NumberFormat.getCurrencyInstance().format(tip)
27    binding.tipResult.text = getString(R.string.tip_amount, formattedTip)
28 }
29 }
```

Emulator: Pixel 4 XL API 29

package com.example.affirmations

import ...

```
1 class MainActivity : AppCompatActivity() {
2     override fun onCreate(savedInstanceState: Bundle?) {
3         super.onCreate(savedInstanceState)
4         setContentView(R.layout.activity_main)
5         val myDataset = DataSource().loadAffirmations()
6         val recyclerView = findViewById<RecyclerView>(R.id.recycler_view)
7         recyclerView.adapter = ItemAdapter(context: this, myDataset)
8         recyclerView.setHasFixedSize(true)
9     }
10 }
```

Emulator: Pixel 4 XL API 29