



Пишем MVP на Android если вы iOS разработчик

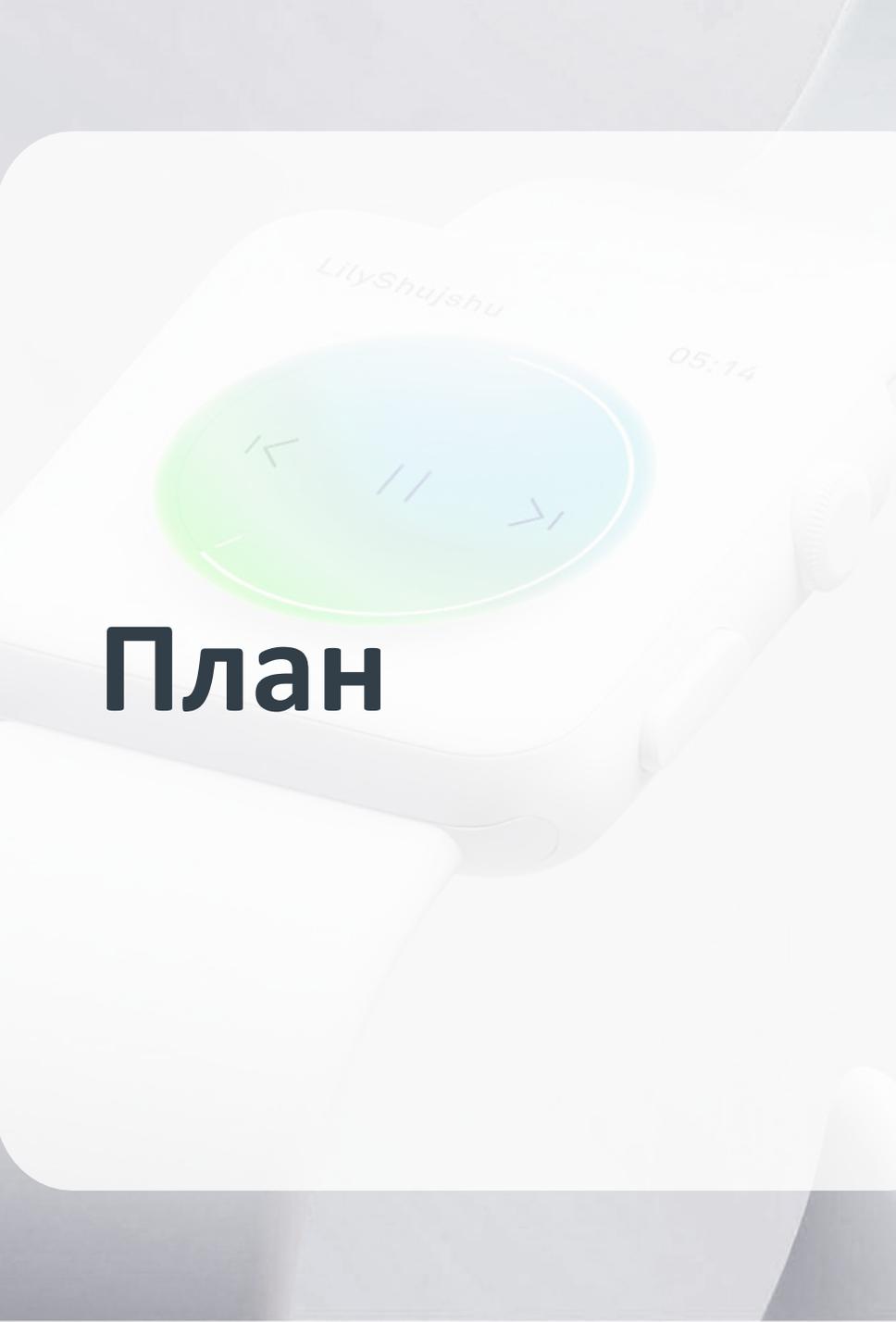
Екатерина Батеева

Обо мне

Senior iOS Developer,
Цифровой Корпоративный
Банк, Сбер

5 лет в iOS разработке
7 лет в QA





План

01

Диверсификация

02

Пишем на
2 платформы

03

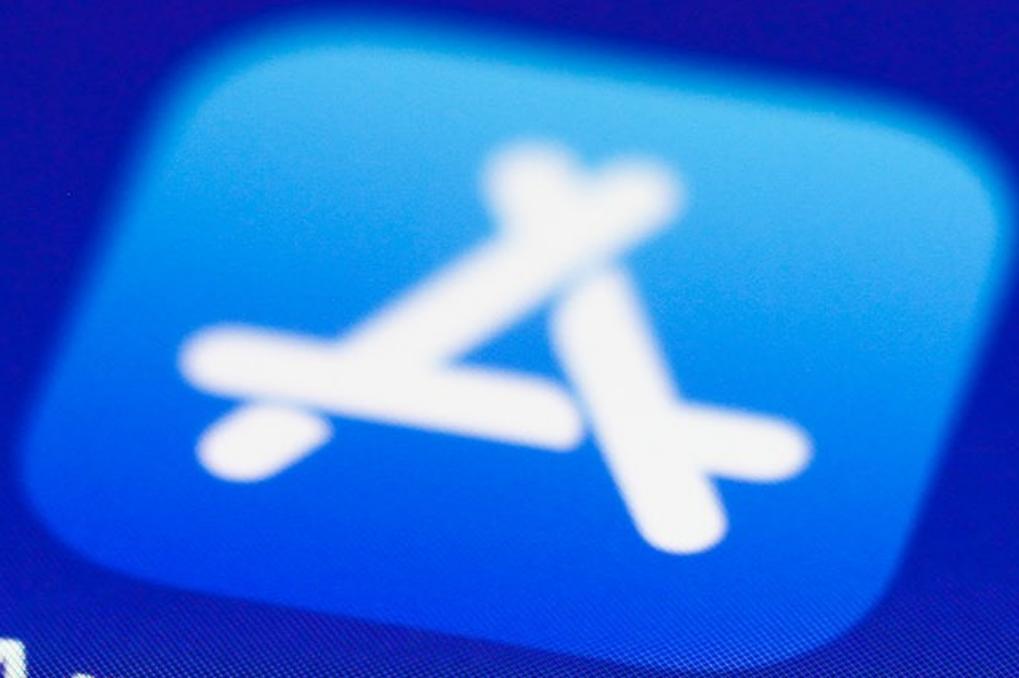
Помощь от ИИ

04

Конвертеры

Один магазин...

cks



App Store



Boo



Один магазин

Апрель
2024



Альтернативные сторы
в ЕС

Один магазин

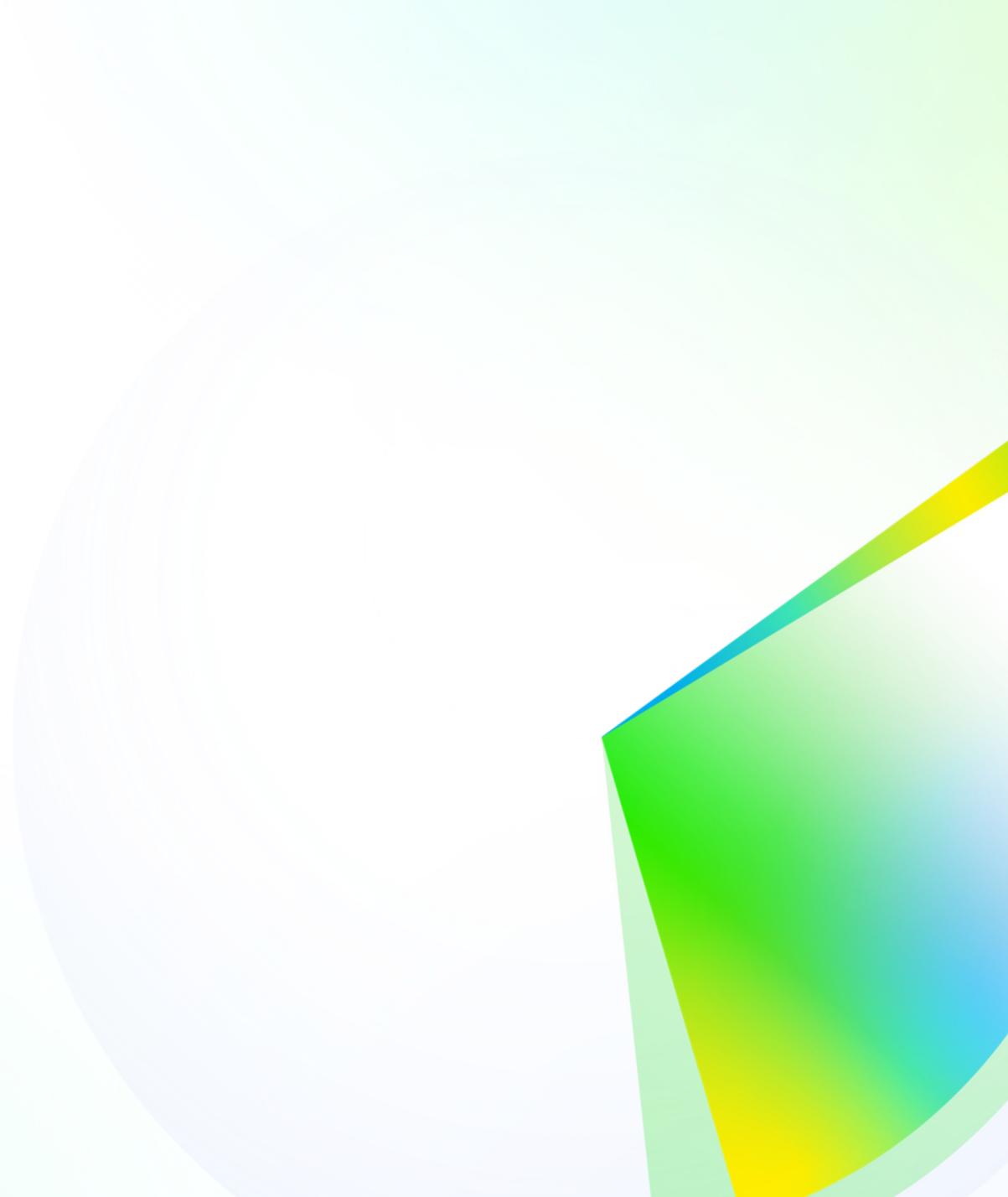
Апрель
2024

Сентябрь
2024

Альтернативные сторы
в ЕС

...

Тем временем **Android**





Много
магазинов приложений,
НО...



Требования
у каждого свои

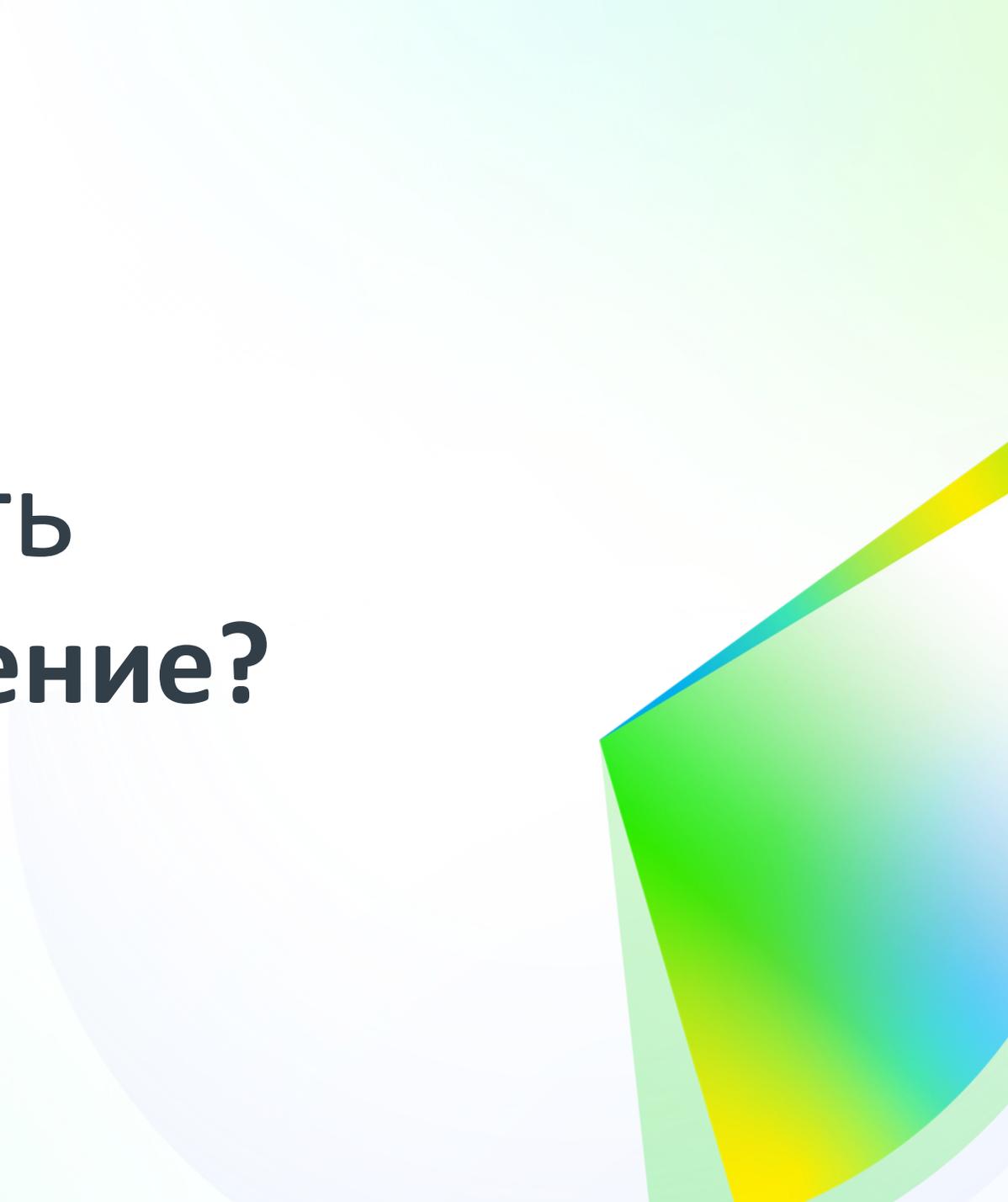


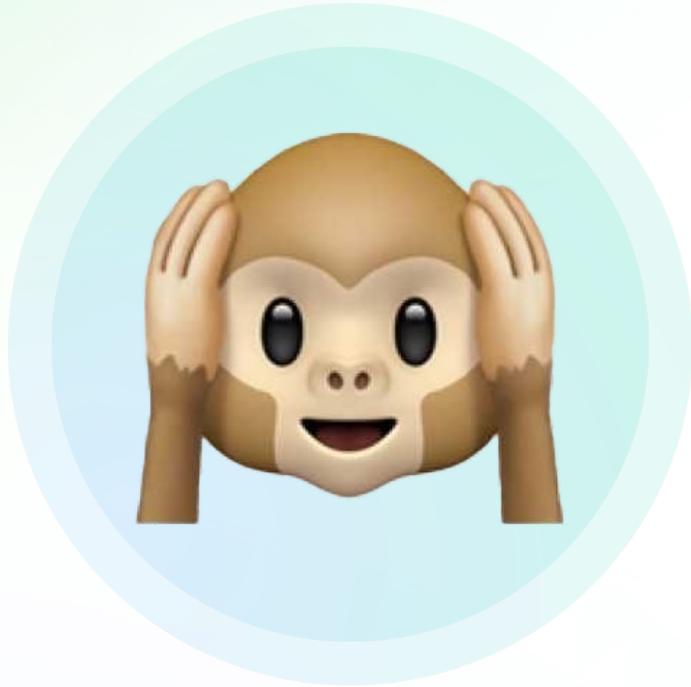
Ограничения
Google Play





Как я могу создать
Android приложение?





Нативная
разработка



**Я не умею
в Android**

Я не могу,
у меня лапки(



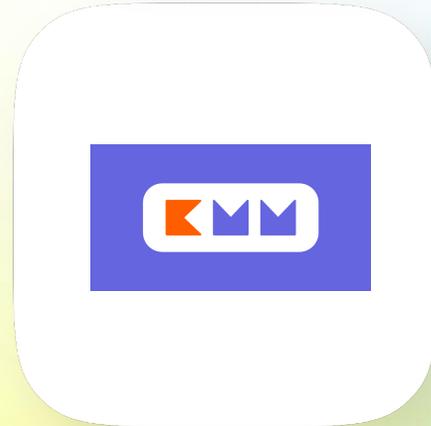
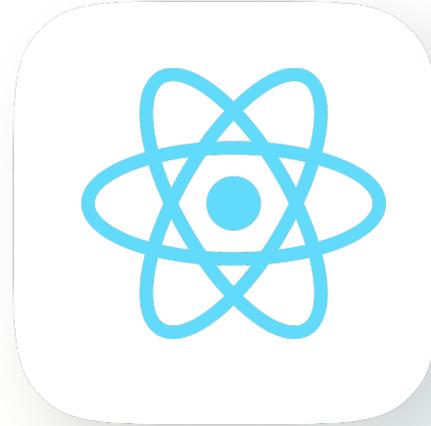


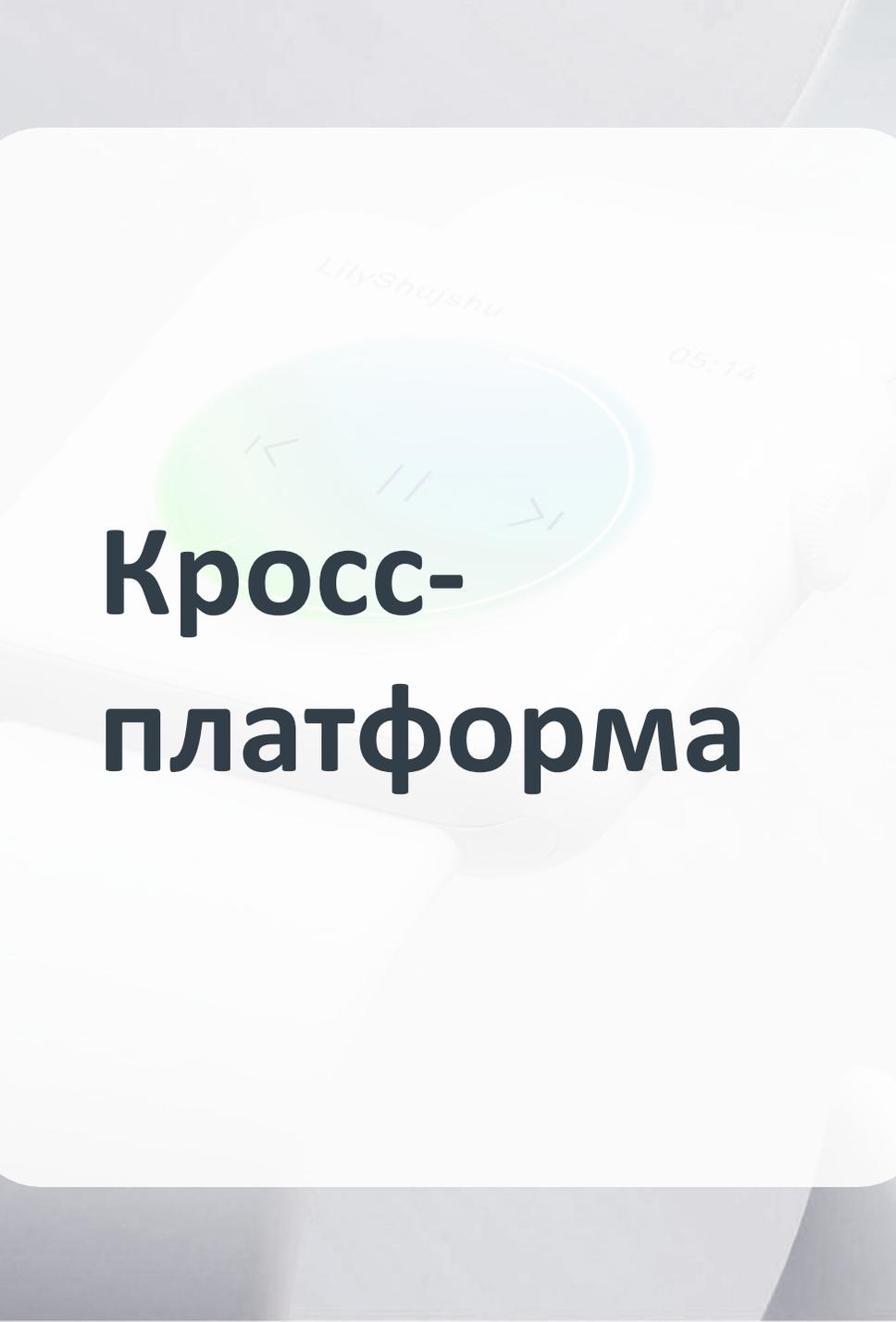
Нативная
разработка



Кросс-
платформа



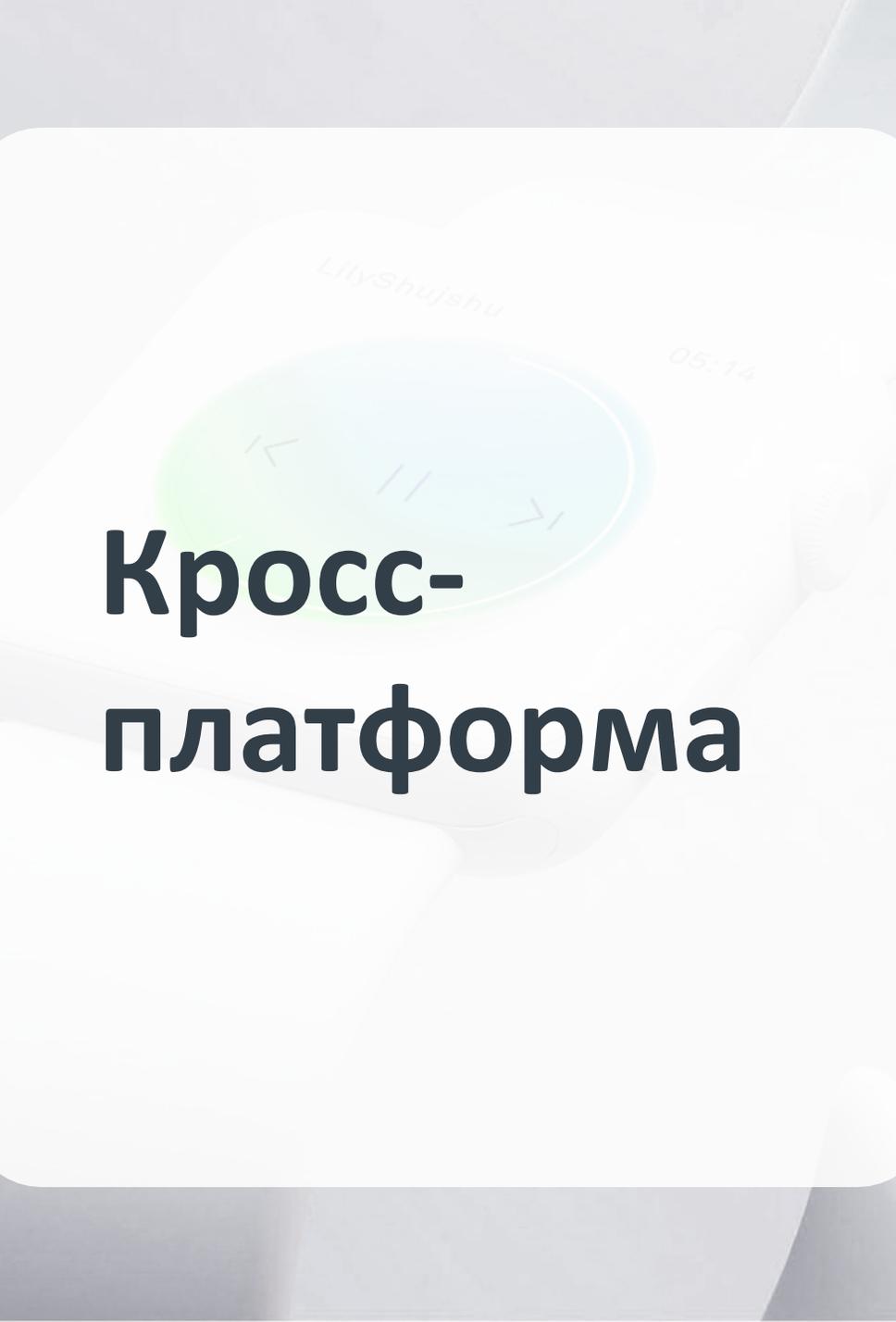




Кросс- платформа

01

Все равно учить



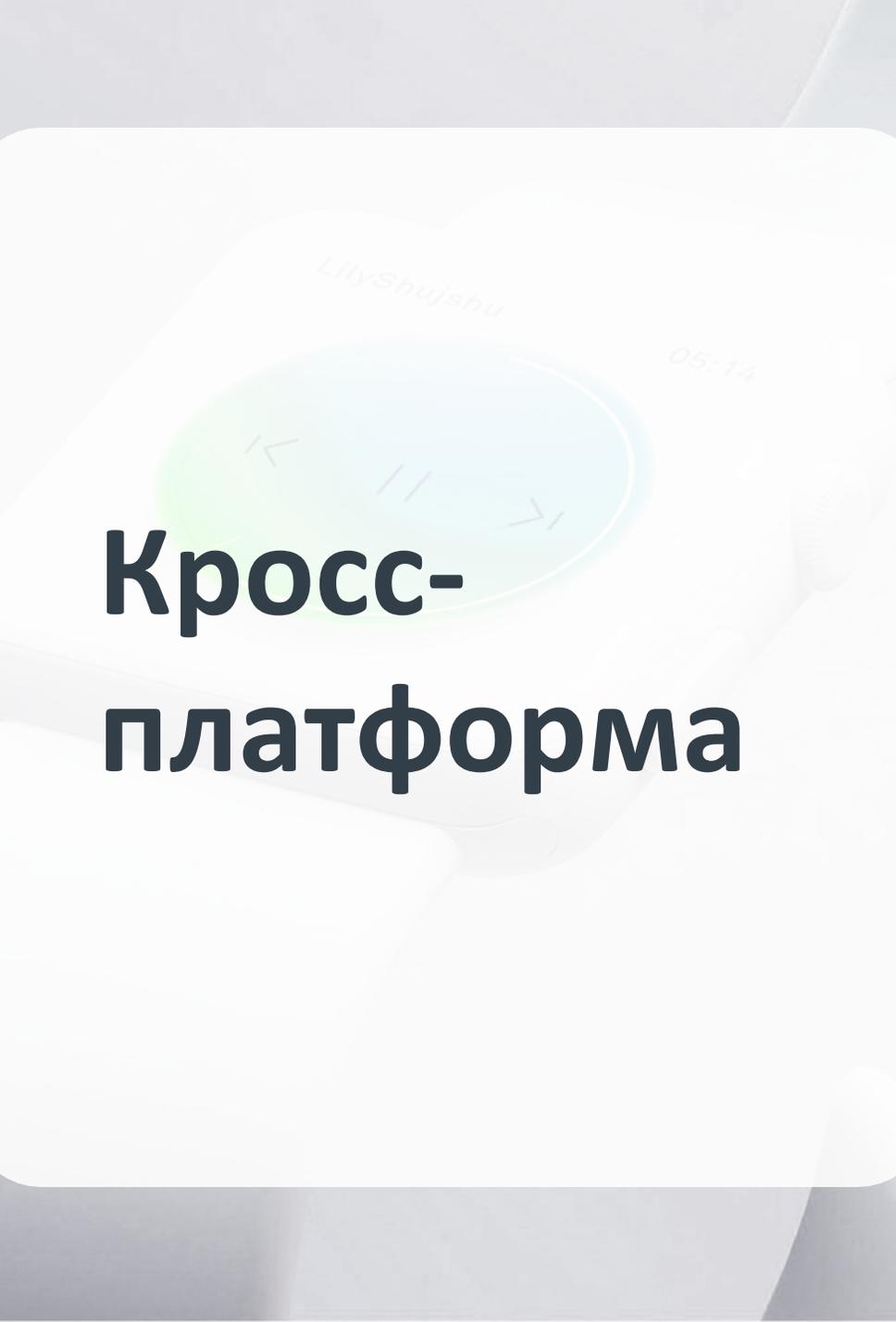
Кросс- платформа

01

Все равно учить

02

Проблемы
с производительностью



Кросс- платформа

01

Все равно учить

02

Проблемы
с производительностью

03

А не стрельнет?

Но лучше
выбрать КММ



Нативная
разработка



Кросс-
платформа



No
Code



 **DhiWise**

Screens (38)

- Home
- Mobile
- Web
- Assets
- Navigation
- Preview
- Settings

Screen Name	Associated Files	Integrated Actions	Navigation	API Integration	Authentication	Export Screen
Dashboard Edit name	fragment_dashboard.xml DashboardFragment.kt DashboardModel.kt DashboardVM.kt	Change view: 0 Permissions: 0 Firebase integration: 0 Firebase authentication: 0	Navigation: 0	API integration: 0	Authentication: 0	Export screen
Explore Edit name	fragment_explore.xml ExploreFragment.kt ExploreModel.kt ExploreVM.kt	Change view: 0 Permissions: 0 Firebase integration: 0 Firebase authentication: 0	Navigation: 1	API integration: 0	Authentication: 0	Export screen
Cart Edit name	fragment_cart.xml CartFragment.kt CartModel.kt CartVM.kt	Change view: 0 Permissions: 0 Firebase integration: 0 Firebase authentication: 0	Navigation: 1	API integration: 0	Authentication: 0	Export screen
Offer Screen Edit name	fragment_offer_screen.xml OfferScreenFragment.kt OfferScreenModel.kt OfferScreenVM.kt	Change view: 0 Permissions: 0 Firebase integration: 0 Firebase authentication: 0	Navigation: 0	API integration: 0	Authentication: 0	Export screen

9:41



Search Product



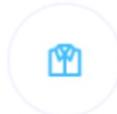
Super Flash Sale
50% Off

08 : 34 : 52



Category

More Category



Man Shirt



Office Bag



Dress



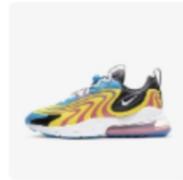
Woman Bag



Man

Flash Sale

See More



FS - Nike Air
Max 270 React...



FS - QUILTED
MAXI CROS...



FS

Libraries

1. Retrofit- REST API Call <https://square.github.io/retrofit/>
2. Glide - Image Loading and caching. <https://github.com/bumptech/glide>
3. Material Design Components - Google's latest Material Components. <https://material.io/develop/android>
4. koin - Dependency Injection <https://insert-koin.io/>

А если у меня
Свой дизайн?

А если у меня
Свой дизайн?

Figma plugin!



Select mobile framework

Flutter Android iOS

Select web framework

HTML Next.js React

Export

Export code for only specific screens you need.

All Frames Selected Frames

Figma URL *

Enter Figma URL

Create app



Selected Frames

Refresh frames

1 frame(s)

1. 0.30 Sign in Screen

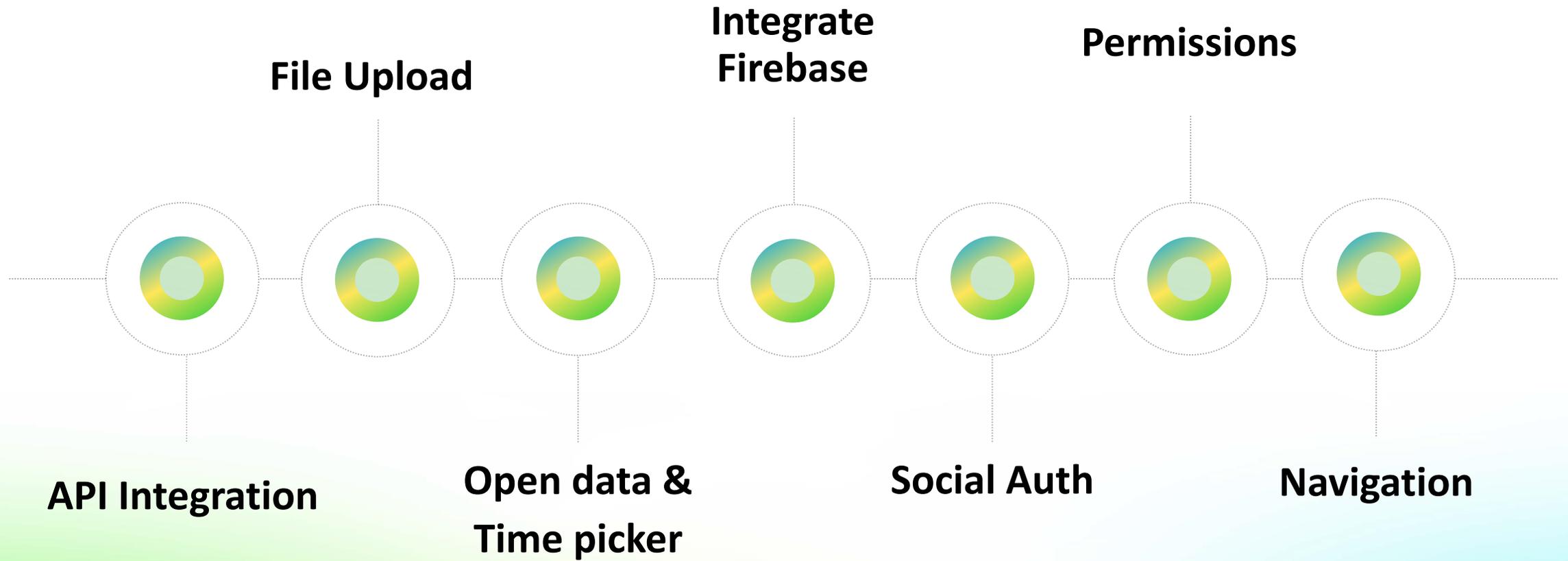


Design guidelines for better accuracy

Read our guidelines to increase the accuracy of design to code conversion to code by optimizing Figma designs.

[Learn more](#)

Можно добавить
интеграцию





DhiWise

01

Сгенерирует приложение по промту

02

Есть плагин в figma

03

Можно скачать код, но...

Pro



\$149

Per user/year, billed annually



ДЕНЕГ

НЕТ!

- Application1
 - app
 - src
 - androidTest
 - java
 - com
 - main
 - java
 - com
 - application
 - app
 - appcomponents
 - base
 - BaseActivity.kt
 - BaseBottomsheetDi...
 - BaseControllerFunc...
 - BaseDialogFragmen...
 - BaseFragment.kt
 - di
 - MyApp.kt
 - facebookauth
 - googleauth
 - ui
 - utility
 - extensions
 - FragmentUtils.kt
 - modules
 - dashboard
 - res
 - AndroidManifest.xml

Application1 > app > src > main > java > com > application > app > appcomponents > di > MyApp.kt

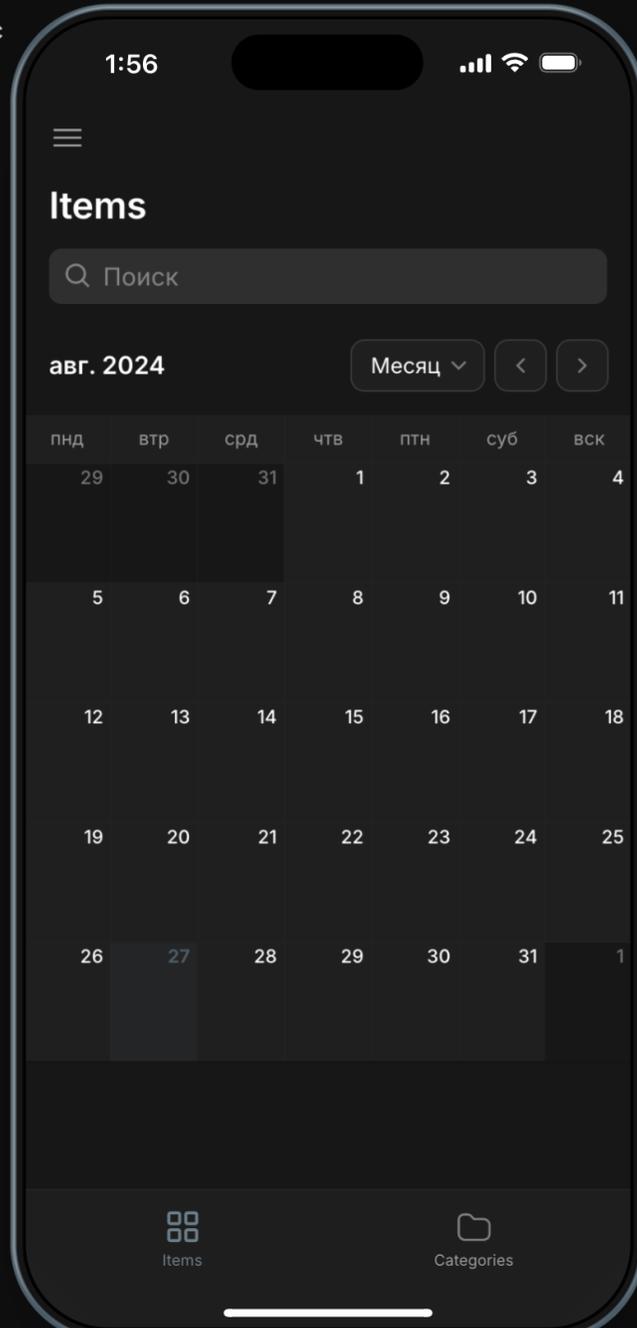
```
2
3 import android.app.Application
4 import com.application.app.appcomponents.utility.PreferenceHelper
5 import org.koin.android.ext.koin.androidContext
6 import org.koin.android.ext.koin.androidLogger
7 import org.koin.core.context.loadKoinModules
8 import org.koin.core.context.startKoin
9 import org.koin.core.module.Module
10 import org.koin.dsl.module
11
12 /**
13  * The application class which used to start koin for dependency injection
14  */
15 class MyApp : Application() {
16
17     public override fun onCreate(): Unit {
18         super.onCreate()
19         instance = this
20         startKoin {
21             androidLogger()
22             androidContext(this@MyApp)
23             loadKoinModules(getKoinModules())
24         }
25     }
26
27     /**
28     * method which prepares [PreferenceHelper]s koin module
29     * @return [Module] - the koin module
30     */
31     private fun preferenceModule(): Module {
32         val prefsModule = module {
33             single {
34                 PreferenceHelper()
35             }
36         }
37         return prefsModule
38     }
39
40     /**
41     * method which returns the list of koin module to register
42     * @return MutableList<Module> - list of koin modules
43     */
44     private fun getKoinModules(): MutableList<Module> {
45         val koinModules = mutableListOf<Module>()
```

**Бесплатно
скачать код нельзя**

The logo consists of the word "Glide" in a bold, italicized, black sans-serif font, centered within a white rounded square. The square has a subtle drop shadow and is set against a background with a horizontal gradient from light green on the left to light blue on the right.

Glide

Viewing as Ekaterina Batee...



Items

General

Options

SCREEN

Source

Items

Label

Items

STYLE



Card



List



Table



Data Grid



Checklist



Calendar



Kanban



Custom

ITEMS DATA

Title

A Name

Start Time

A Name

End Time

A Description

ACTIONS



Allow users to add items



Allow users to edit items

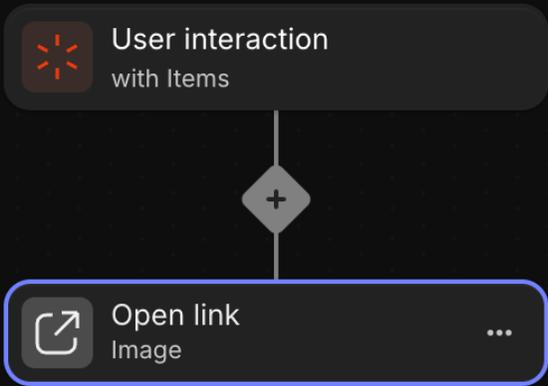


Edit collection



Untitled action

Run



- Show detail screen
- Show edit screen
- Show form screen
- Show new screen
- Close overlay
- Sign in
- Show user profile screen
- Go to tab
- Go back
- Open link
- Open address on map

Untitled action > Open link

CONFIGURE ACTION

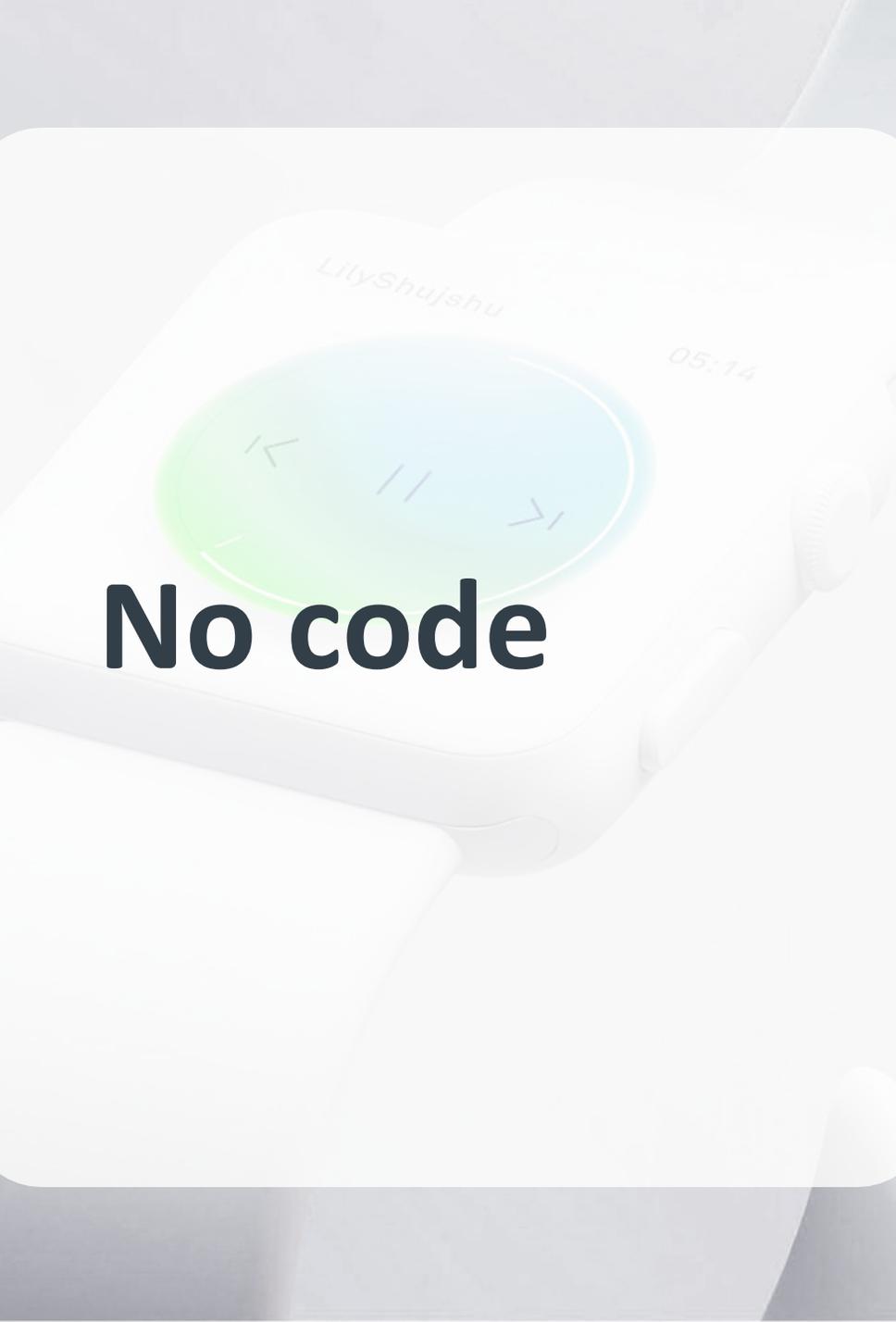
Open link

Search items

- Navigation
- Data
- Interaction
- Communication
- AI
- Integrations

Can I download or export my app's source code?

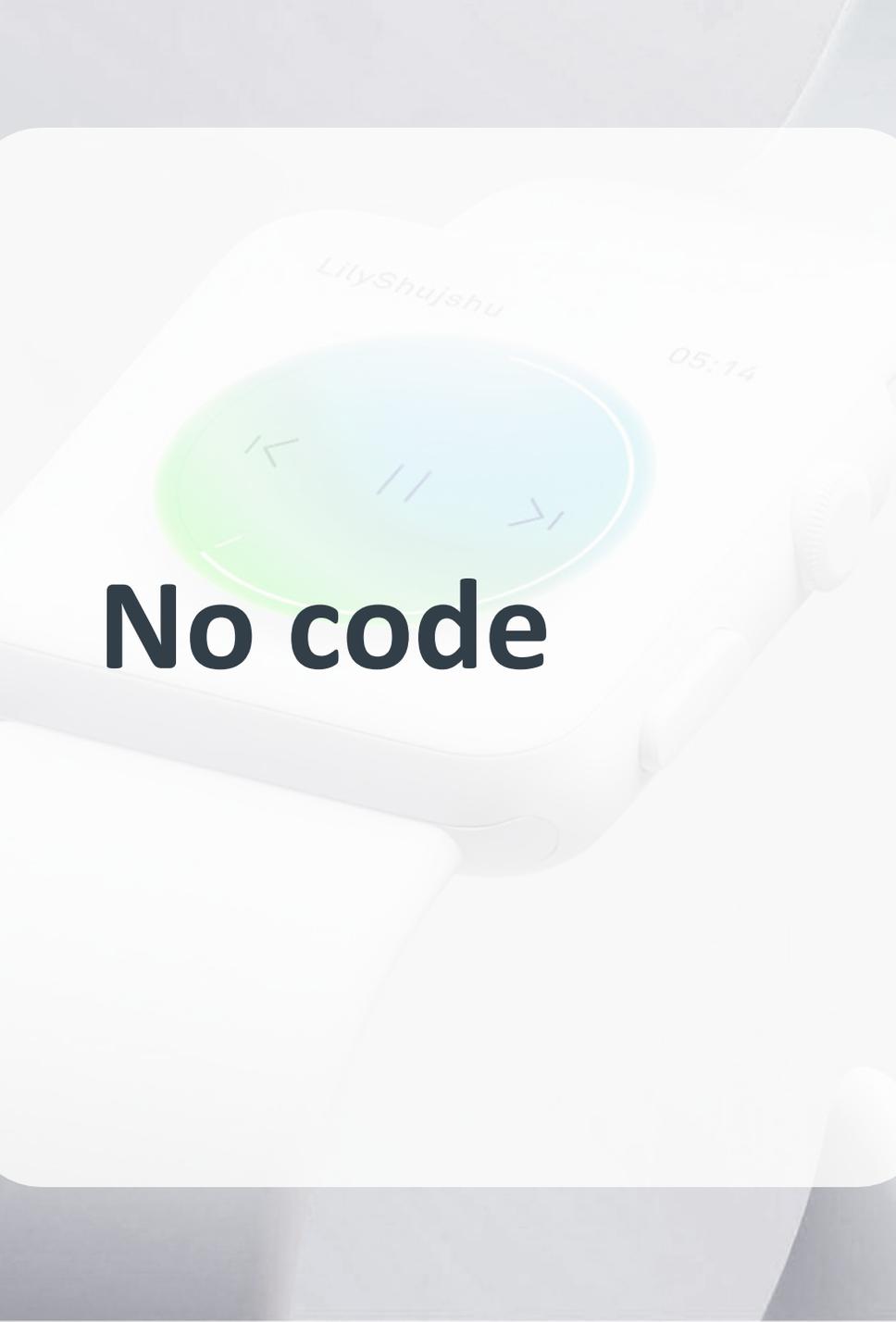
This is not possible, there is no source code for your apps.



No code

01

Все хорошие
решения платные



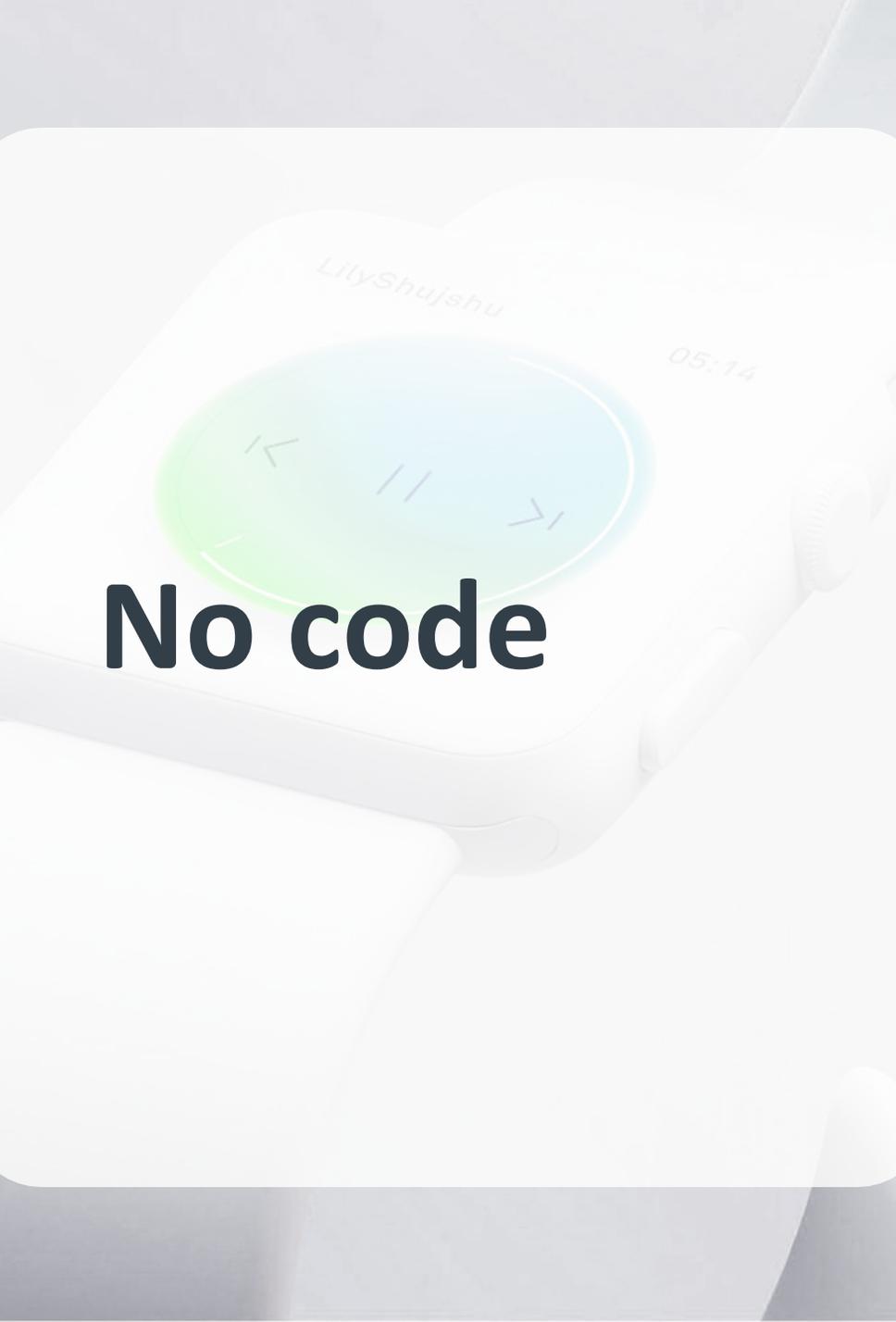
No code

01

Все хорошие
решения платные

02

Сложно
масштабировать



No code

01

Все хорошие
решения платные

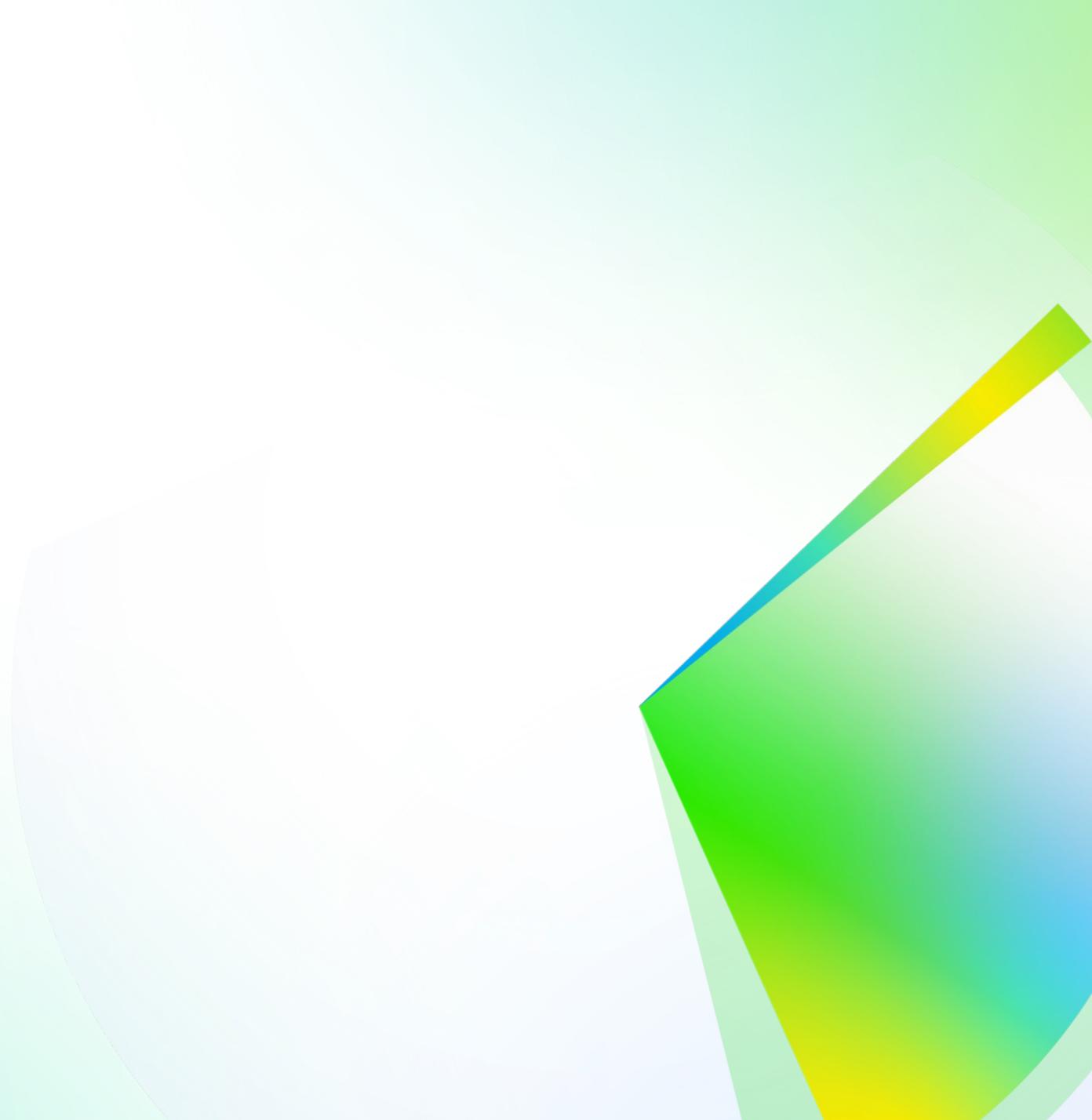
02

Сложно
масштабировать

03

Сделать без кода,
но доработать сложно

А ИИ мне
поможет?



Терпение,
мой друг...



Помоги мне, GPT

Напиши activity для android...

Вот пример простого экрана для авторизации на Kotlin для Android с использованием стандартных компонентов. Этот пример включает в себя два текстовых поля для ввода логина и пароля, а также кнопку для отправки данных.

1. Создайте новый файл макета (XML) под именем `activity_login.xml` в папке `res/layout`:

```
xml
<?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="vertical"
    android:padding="16dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Авторизация"
        android:textSize="24sp"
        android:layout_gravity="center" />

    <EditText
        android:id="@+id/etUsername"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Логин"
        android:inputType="text" />

    <EditText
        android:id="@+id/etPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Пароль"
        android:inputType="textPassword" />

    <Button
        android:id="@+id/btnLogin"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Войти"
        android:layout_marginTop="16dp" />

</LinearLayout>
```

2. Создайте новый класс активности под именем `LoginActivity.kt`:

```
kotlin
package com.example.yourapp // Замените на ваш пакет

import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity

class LoginActivity : AppCompatActivity() {

    private lateinit var etUsername: EditText
    private lateinit var etPassword: EditText
    private lateinit var btnLogin: Button

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

        etUsername = findViewById(R.id.etUsername)
        etPassword = findViewById(R.id.etPassword)
        btnLogin = findViewById(R.id.btnLogin)

        btnLogin.setOnClickListener {
            val username = etUsername.text.toString().trim()
            val password = etPassword.text.toString().trim()

            // Здесь можно добавить логику проверки логина и
            // пароля
            if (username.isNotEmpty() && password.isNotEmpty())
            {
                // Пример успешного логина
                Toast.makeText(this, "Авторизация успешна",
                Toast.LENGTH_SHORT).show()
                // Здесь можно перейти на следующий экран
            } else {
                Toast.makeText(this, "Пожалуйста, введите логин
                и пароль", Toast.LENGTH_SHORT).show()
            }
        }
    }
}
```

Ошибки...

AppCompatActivity



ComponentActivity

10:53



Авторизация

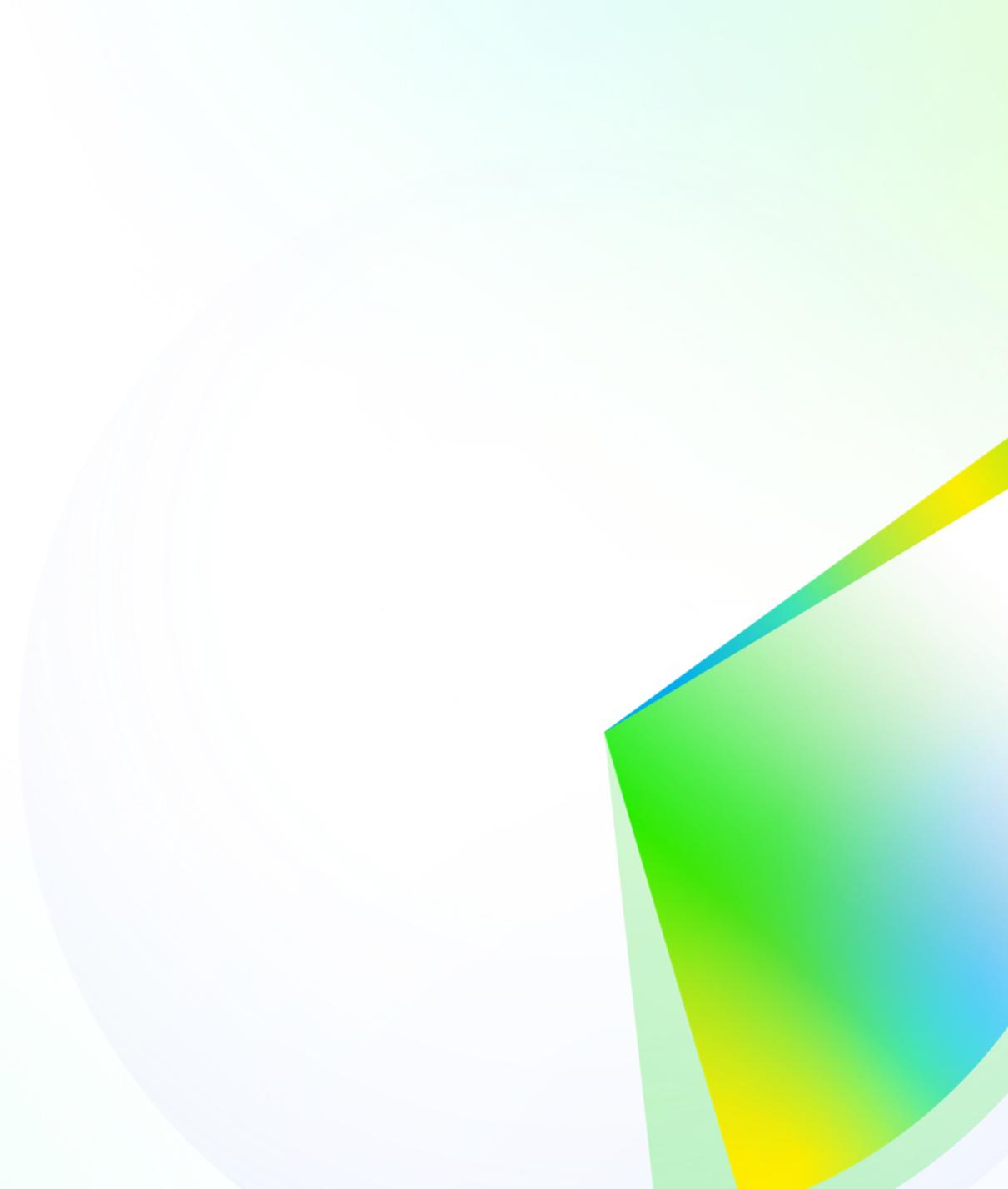
Логин

Пароль

войти

</ IF IT WORKS
DON'T TOUCH IT>

Конвертируем...

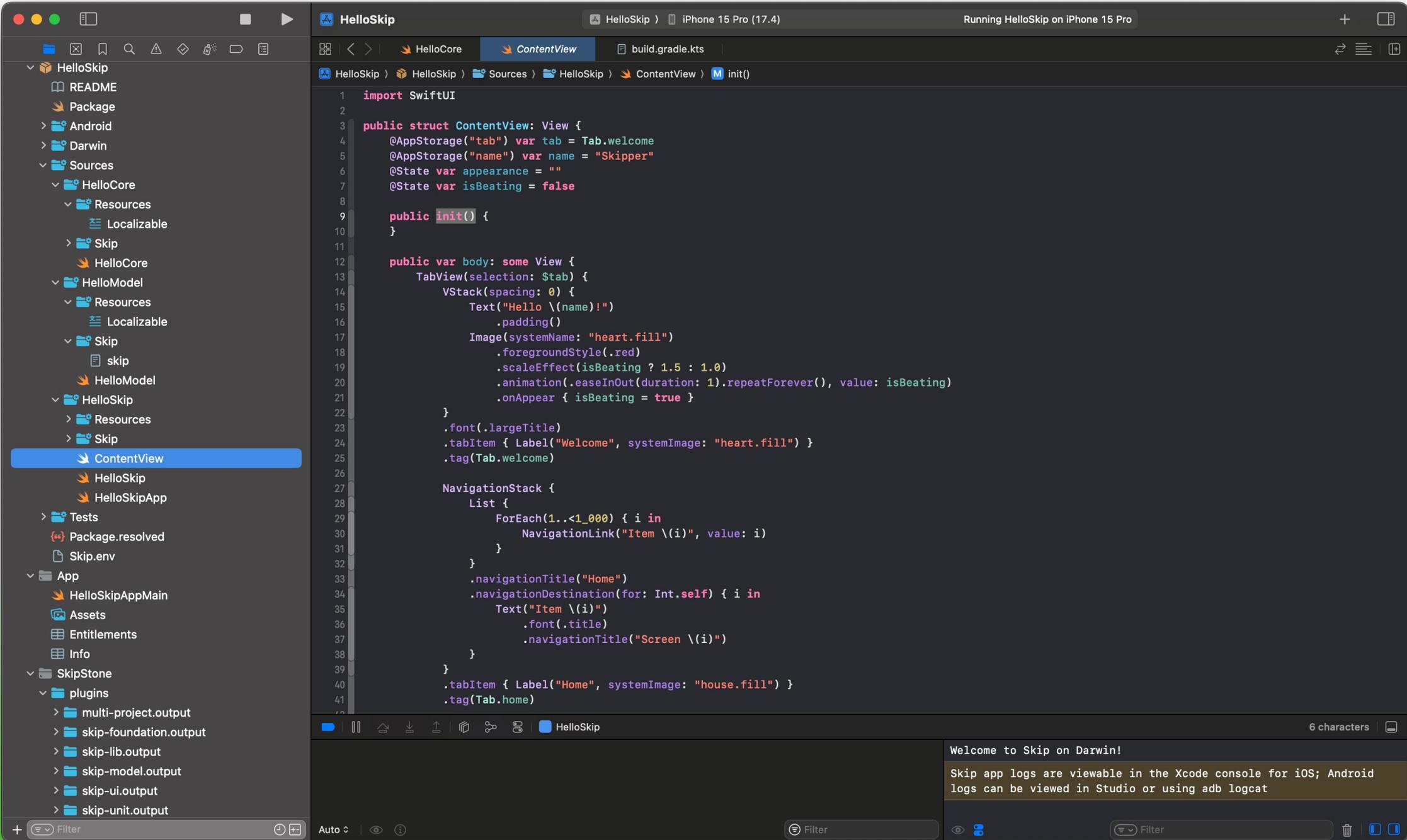




**Перевести
проект нельзя**

- ▼ SkipStone
 - ▼ plugins
 - ▼ skip-foundation.output
 - ▼ SkipFoundation
 - ▼ skipstone
 - .SkipFoundation.sourcehash
 - > gradle
 - gradle.properties
 - settings.gradle.kts
 - > SkipFoundation
 - SkipFoundation.skipcode
 - SkipLib
 - SkipUnit
 - > skip-lib.output
 - > skip-model.output
 - > skip-ui.output
 - > skip-unit.output
 - skipstone
 - skipstone-state
 - skipstone.dia
 - skipstone.dSYM
 - ▼ sneakershop.output
 - ▼ SneakerShopDemo
 - > skipstone

**Есть демо
и оно работает**





Indie

Free

- ✓ Skip Swift & SwiftUI transpiler
- ✓ Unlimited open source apps
- ✓ One (1) closed-source app
- ✓ Community support forums
- ✓ Community Slack channels

Must be an individual or organization with 1-2 members with less than 30K USD related annual revenue

Choose Indie

Small Business

\$29/month

or \$299/year (16% discount)

- ✓ Skip Swift & SwiftUI transpiler
- ✓ Unlimited open-source apps
- ✓ Five (5) closed-source apps
- ✓ Dedicated support e-mail
- ✓ Dedicated Slack channels

Must be a business/individual with less than 250K USD annual revenue, or a nonprofit/educational institution

Choose Small Business

Professional

\$99/month

or \$999/year (16% discount)

- ✓ Skip Swift & SwiftUI transpiler
- ✓ Unlimited open source apps
- ✓ Unlimited closed-source apps
- ✓ Dedicated support e-mail
- ✓ Dedicated Slack channels
- ✓ Prioritized support

For organizations of any size and revenue.

Choose Professional

Welcome to the Skip Indie Developer Program

Dear Ekaterina,

Thank you for signing up for the Skip Indie Developer Program. We're thrilled to have you on board!

To active your license, please add the following line to your `~/ .skiptools/skipkey.env` file:

```
SKIPKEY: [REDACTED]
```

The license key will expire after 6 months, after which time you will be able to request a new one from <https://skip.tools/purchase/indie/>

Please contact us at support@skip.tools if you have any questions or issues. Also, be sure to avail yourself of the community resources at <https://community.skip.tools> and <https://skip.tools/docs>.

Thank you once again for trying Skip. We hope to help you build amazing apps!

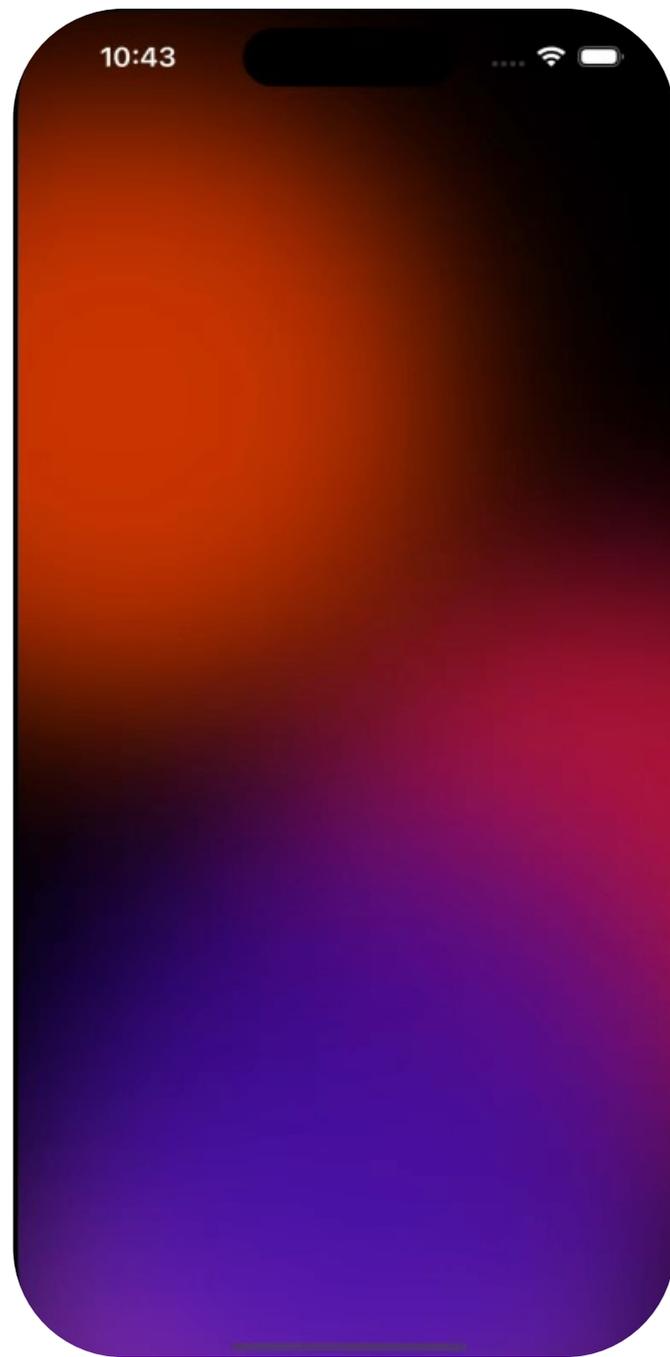
Best regards,
the Skip Development Team

Создаем новый

```
skip init --appid=bundle.id project-name AppName
```



**Перенесём
свой компонент**



```
}  
  .blur(radius: blurRadius)  This API is not yet available in Skip. Consider placing it within a #if !SKIP block. You can file...  
}
```

```
init() {
```

```
    frameHeightRatio = CGFloat.random(in: 0.7 ..< 1.4) ⊗ Unresolved reference. None of the following c...
```

```
    offset = CGSize(width: CGFloat.random(in: -150 ..< 150),
```

```
                    height: CGFloat.random(in: -150 ..< 150)) ⊗ Type mismatch: inferred type is IntRa...
```

```
}
```

```
struct Theme {
    static var generalBackground: Color {
        Color(red: 0, green: 0, blue: 0)
    }

    static func ellipsesTopLeading(forScheme scheme: ColorScheme) -> Color {
        return Color(red: 59 / 255, green: 10 / 255, blue: 165 / 255, opacity: 1) ❌ Type mismatch: inferred type is IntegerLiteralType[Int,L...
    }

    static func ellipsesTopTrailing(forScheme scheme: ColorScheme) -> Color {
        Color(red: 1, green: 66 / 255, blue: 0, opacity: 1) ❌ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double w...
    }

    static func ellipsesBottomTrailing(forScheme scheme: ColorScheme) -> Color {
        Color(red: 228 / 255, green: 27 / 255, blue: 69 / 255, opacity: 1) ❌ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,...
    }

    static func ellipsesBottomLeading(forScheme scheme: ColorScheme) -> Color {
        Color(red: 190 / 255, green: 73 / 255, blue: 236 / 255, opacity: 1) ❌ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byt...
    }
}
```

⌵ SneakerShopDemo 22 issues

✖ The gradle command failed. Review the log for details and consult <https://skip.tools/docs/faq> for common solutions. Command: gradle -p ../Android launchDebug

✖ Execution failed for task ':skipstone:SneakerShopDemo:compileDebugKotlin'.

⌵ 🚩 FloatingClouds

✖ Unresolved reference. None of the following candidates is applicable because of receiver type mismatch:

✖ Type mismatch: inferred type is IntRange but ClosedFloatingPointRange<Double> was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

⌵ 📄 FloatingClouds.kt

✖ Unresolved reference. None of the following candidates is applicable because of receiver type mismatch:

✖ Type mismatch: inferred type is IntRange but ClosedFloatingPointRange<Double> was expected

✖ Type mismatch: inferred type is IntRange but ClosedFloatingPointRange<Double> was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

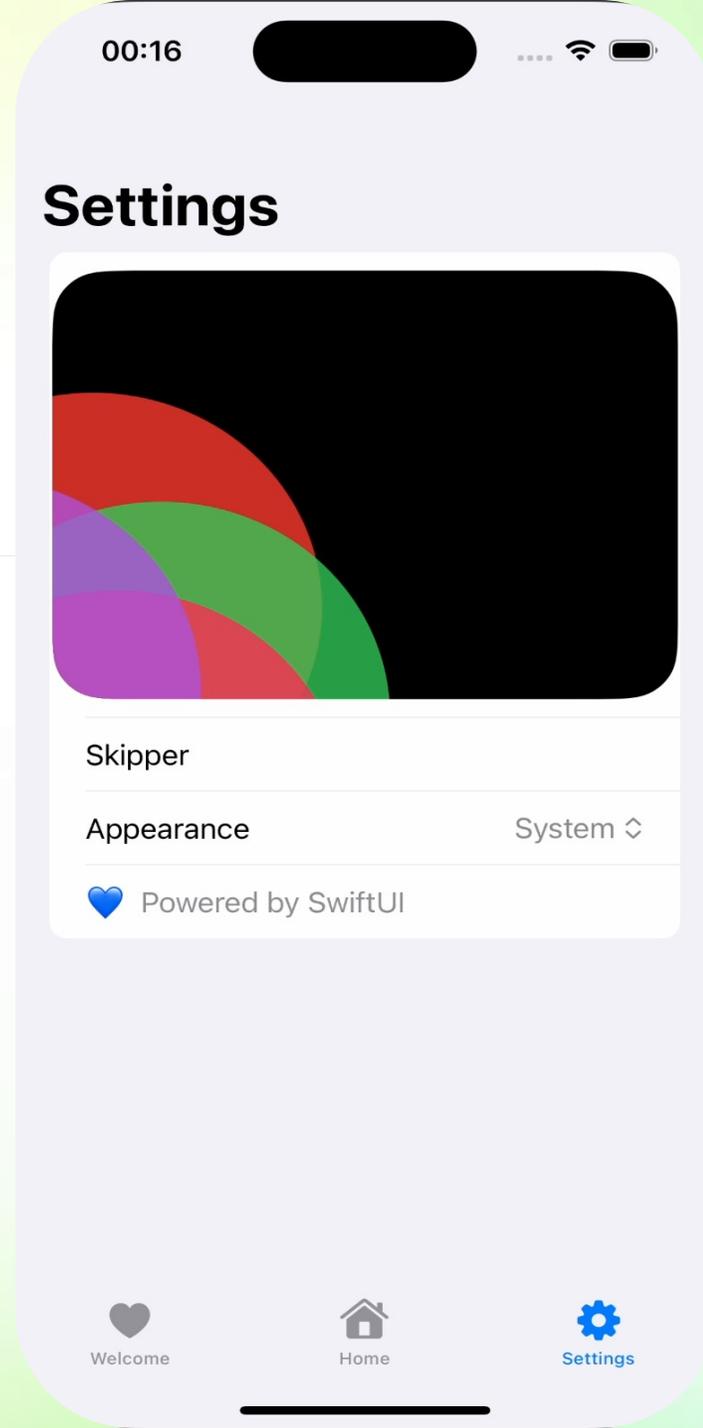
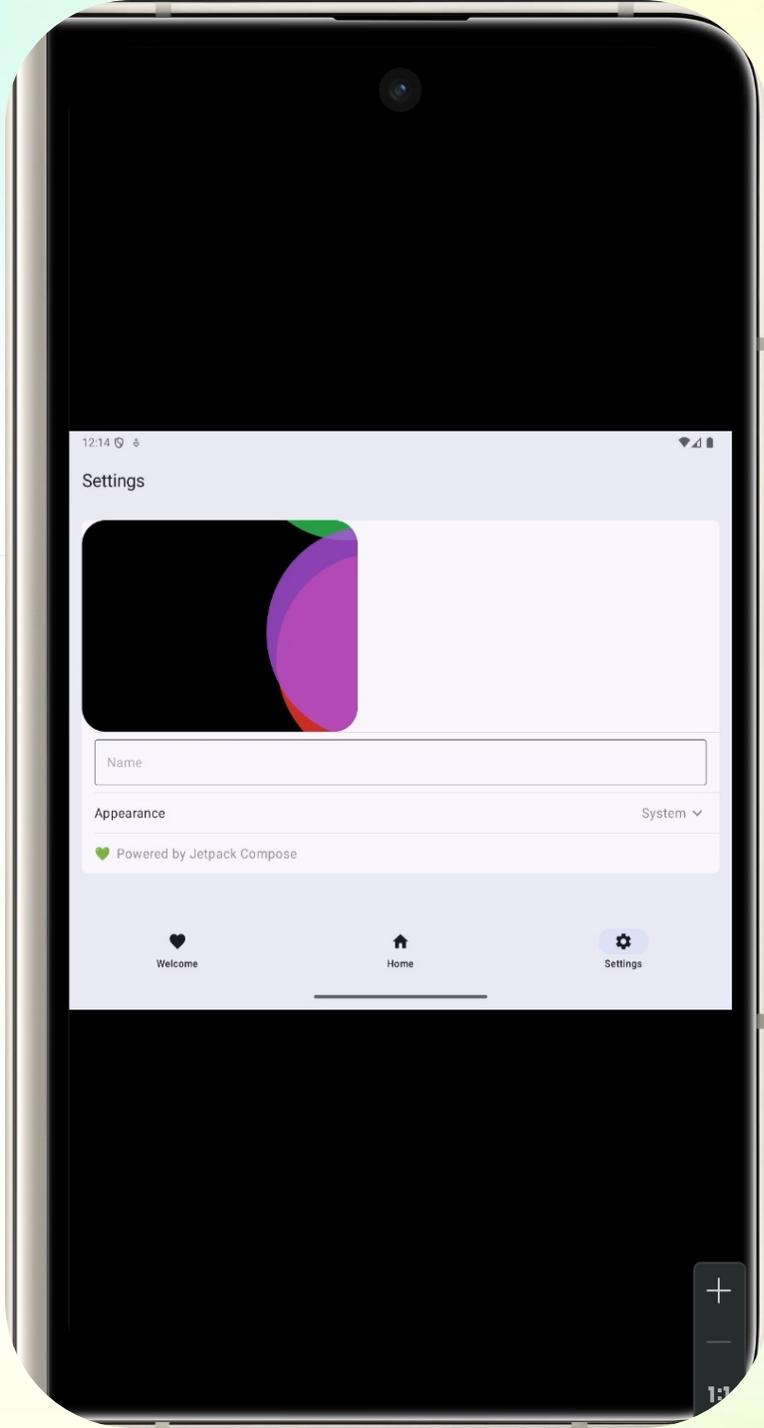
✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

✖ Type mismatch: inferred type is IntegerLiteralType[Int,Long,Byte,Short] but Double was expected

```
#if SKIP
```

```
...
```

```
#endif
```



**Добавим зависимость –
аналитика**

```
import PackageDescription

let package = Package(
  name: "skip-demo",
  defaultLocalization: "en",
  platforms: [.iOS(.v16), .macOS(.v13), .tvOS(.v16), .watchOS(.v9), .macCatalyst(.v16)],
  products: [
    .library(name: "SneakerShopDemoApp", type: .dynamic, targets: ["SneakerShopDemo"]),
  ],
  dependencies: [
    .package(url: "https://source.skip.tools/skip.git", from: "0.8.55"),
    .package(url: "https://source.skip.tools/skip-ui.git", from: "0.0.0"),
    .package(url: "https://github.com/amplitude/Amplitude-iOS.git", from: "8.21.0")
  ],
  targets: [
    .target(name: "SneakerShopDemo", dependencies: [.product(name: "SkipUI", package: "skip-ui")], resources:
      [.process("Resources")], plugins: [.plugin(name: "skipstone", package: "skip")]),
    .testTarget(name: "SneakerShopDemoTests", dependencies: ["SneakerShopDemo", .product(name: "SkipTest", package: "skip")],
      resources: [.process("Resources")], plugins: [.plugin(name: "skipstone", package: "skip")]),
  ]
)
```

▼  SneakerShopDemo 5 issues

✖ The gradle command failed. Review the log for details and consult <https://skip.tools/docs/faq> for common solutions. Command: gradle -p

✖ Execution failed for task ':skipstone:SneakerShopDemo:compileDebugKotlin'.

▼  ContentView

✖ Unresolved reference: amplitude

▼  ContentView.kt

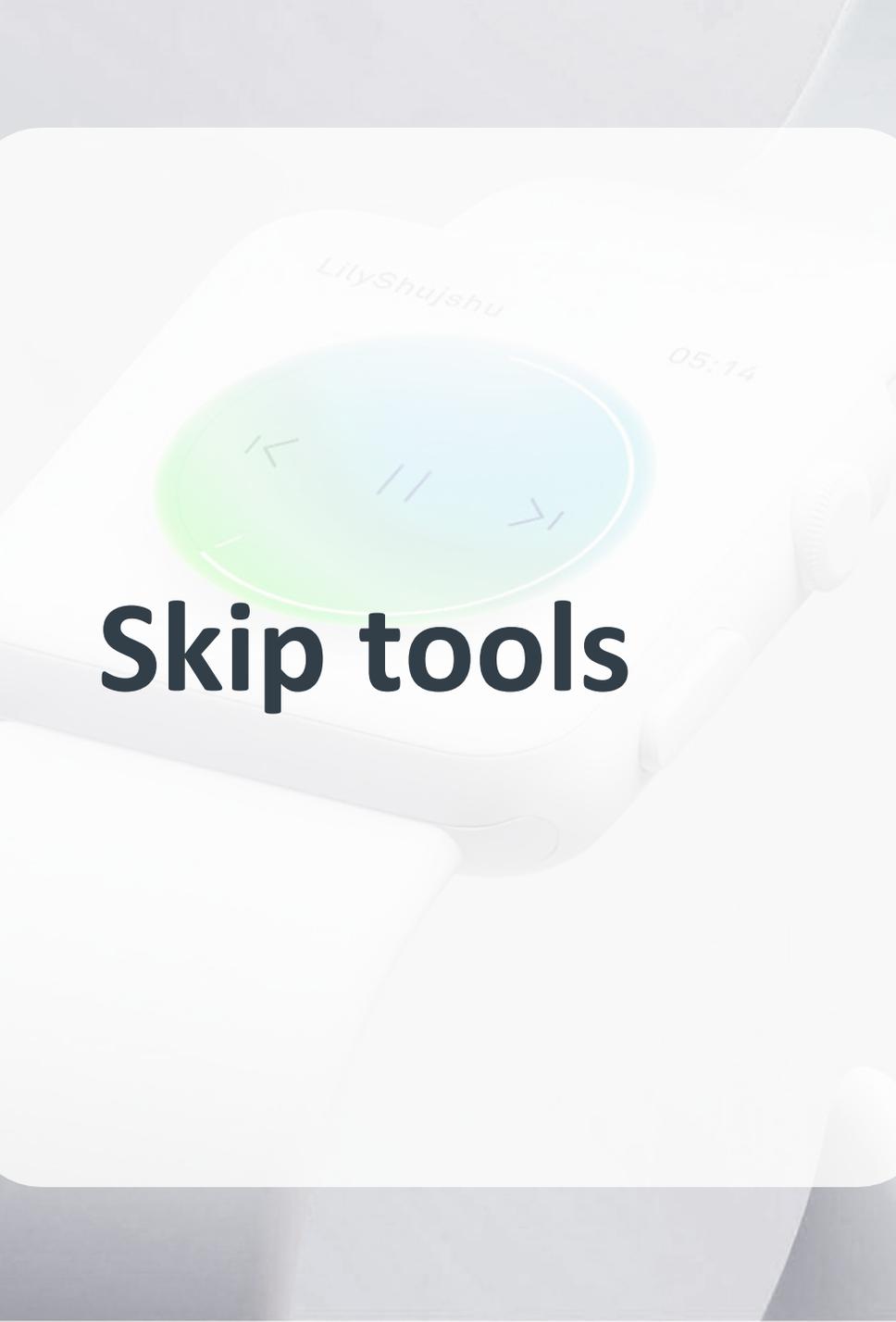
✖ Unresolved reference: amplitude

▼  skip-gradle.log.txt

✖ The gradle command failed. Review the log for details and consult <https://skip.tools/docs/faq> for common solutions. Command:...

Package.swift - Swift

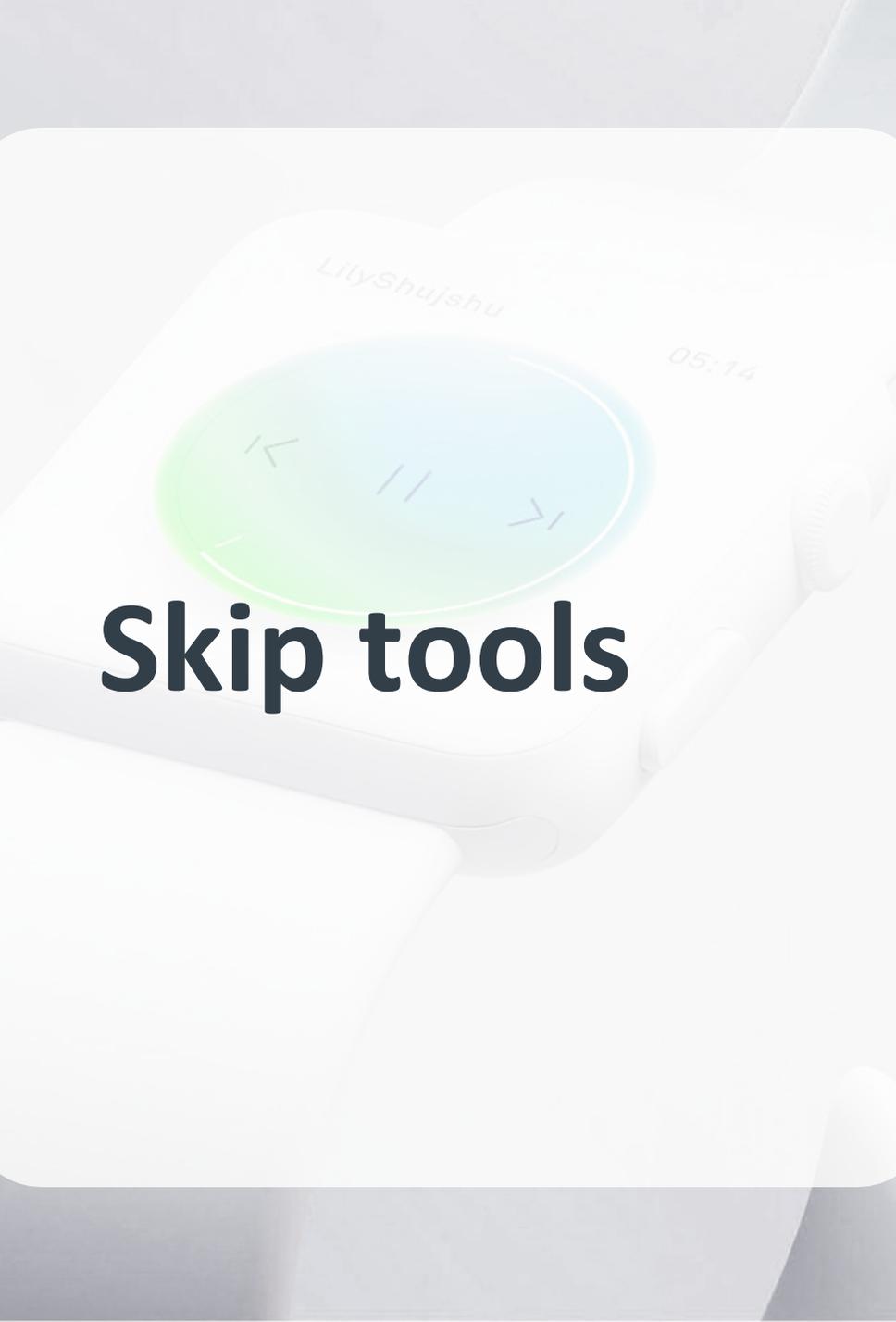
**skip.yml для build.gradle.kts для
Android**



Skip tools

01

iOS 16+ и только iOS



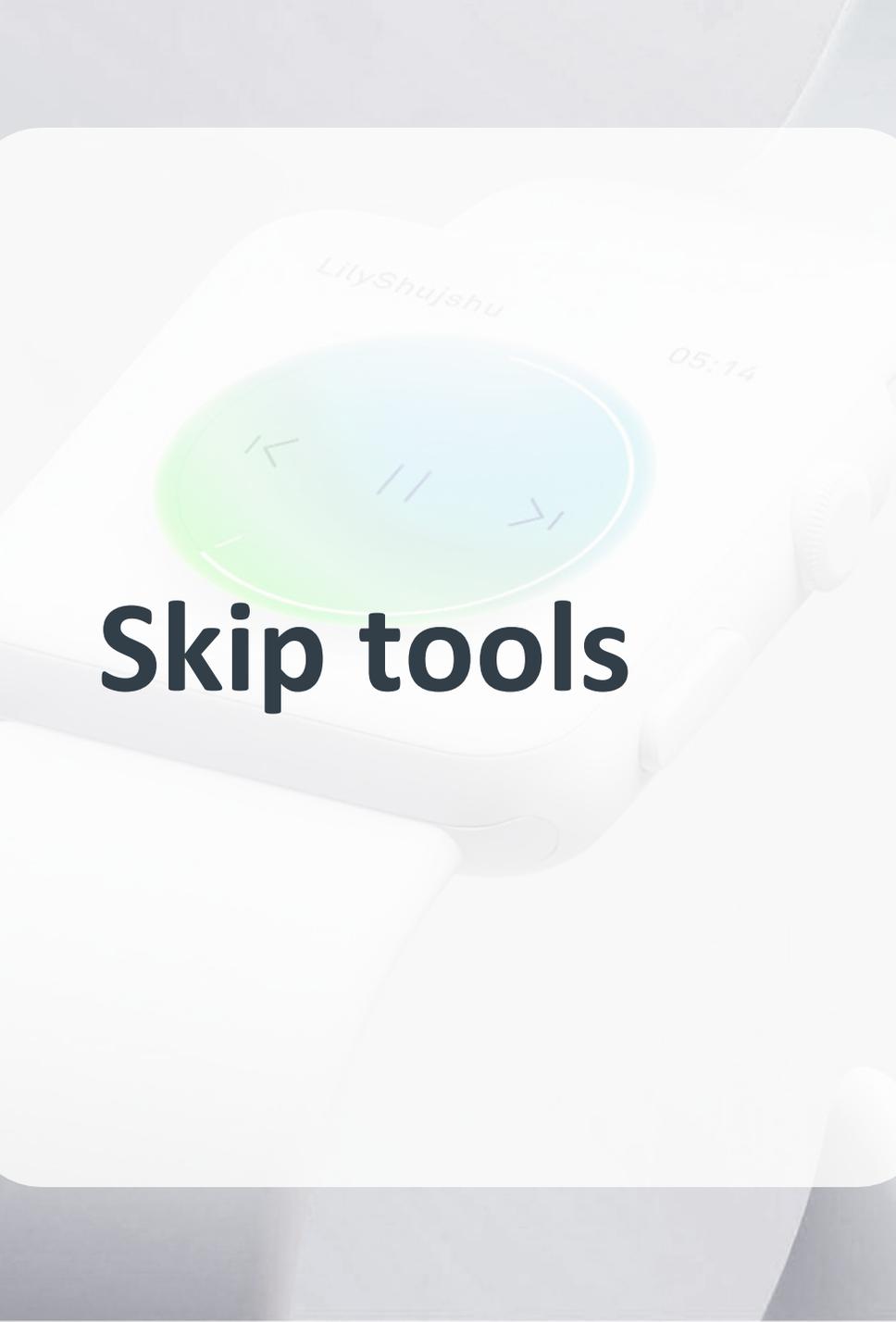
Skip tools

01

iOS 16+ и только iOS

02

Только SwiftUI



Skip tools

01

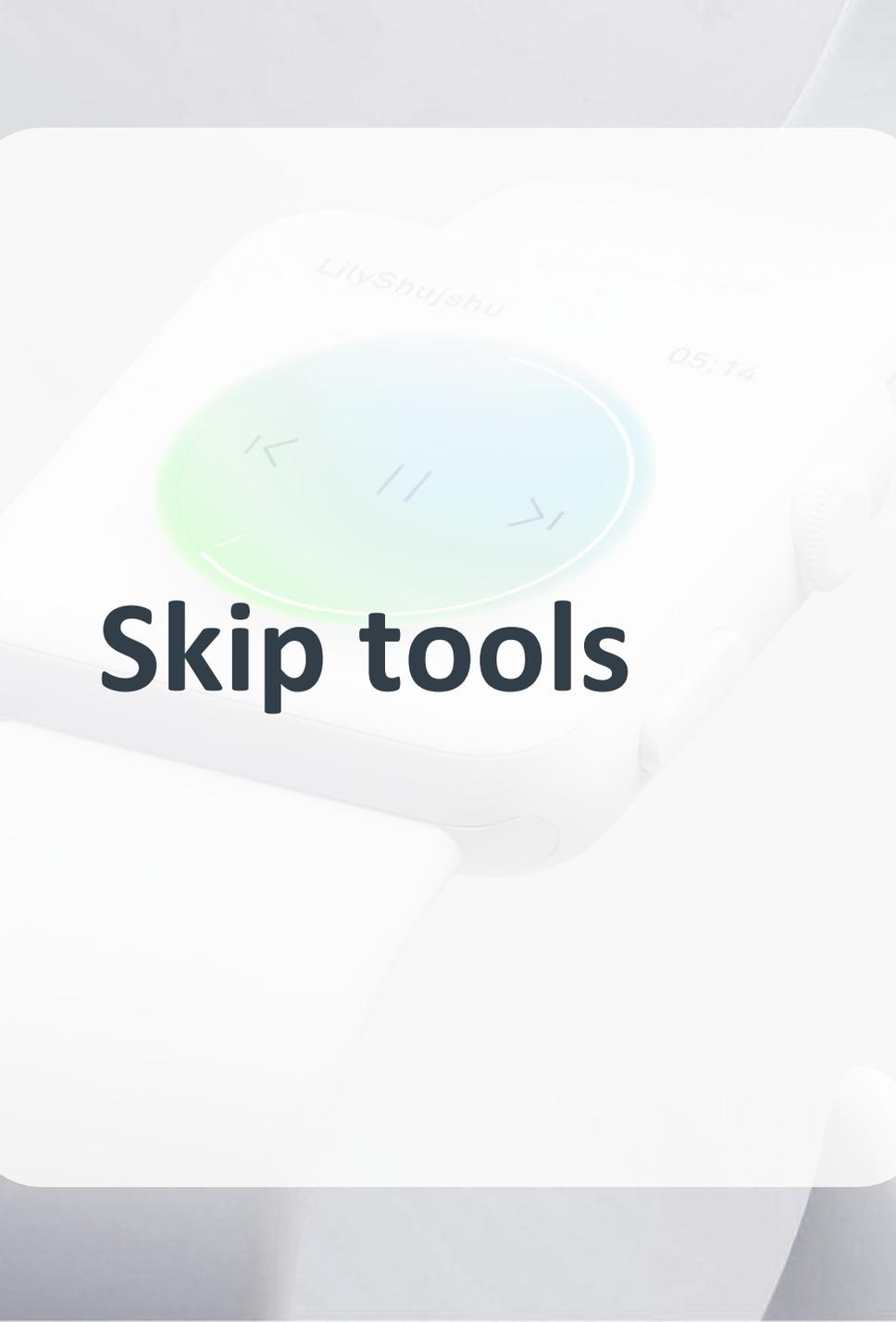
iOS 16+ и только iOS

02

Только SwiftUI

03

SPM



Skip tools

01

iOS 16+ и только iOS

02

Только SwiftUI

03

SPM

04

Нужно создать
новый проект

SwiftUI

Для кроссплатформы

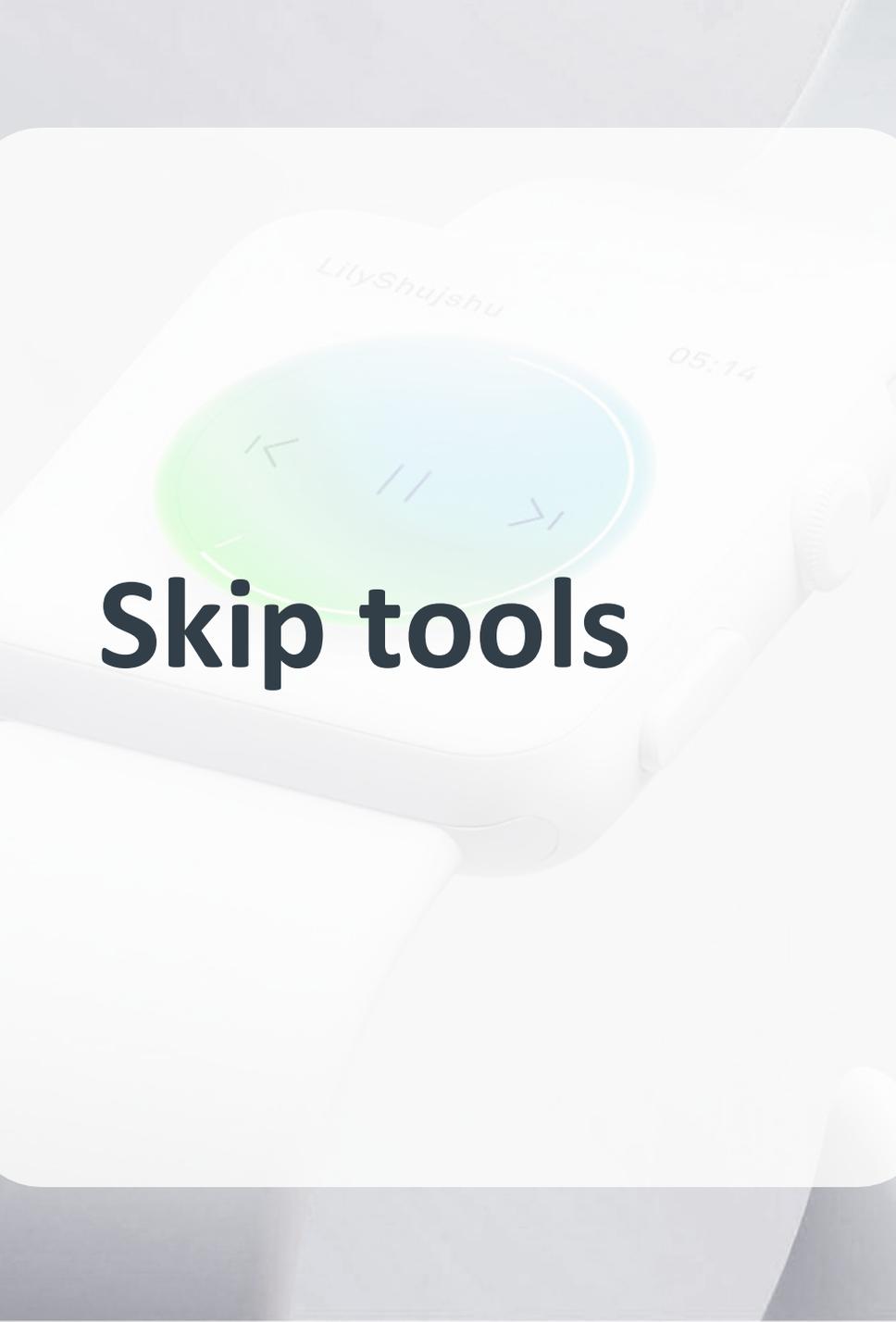


Релиз – Aug 14, 2024

Нет проектов

А как делать сборки?



A white smartwatch is shown in the background. The watch face displays the name 'LilyShujshu' at the top, the time '05:14' on the right, and a large blue circular area in the center containing three icons: a left arrow, a double vertical bar (pause), and a right arrow. The text 'Skip tools' is overlaid in a large, bold, dark blue font on the left side of the watch.

Skip tools

01

skip export

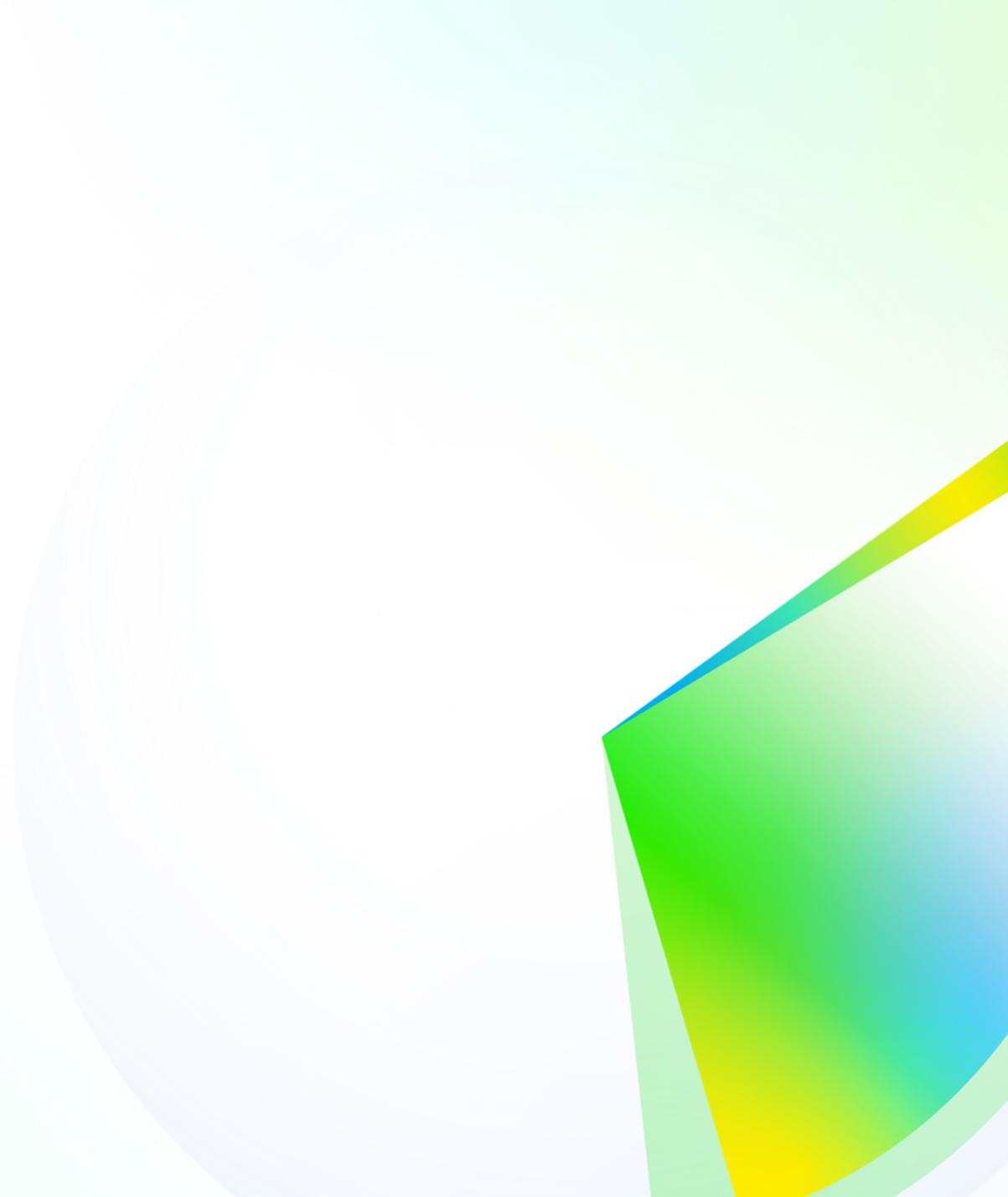
02

gradle -p Android launchDebug

03

fastlane release

Выводы







Выводы

01

Использовать натив + ИИ ->
нужны компетенции



Выводы

01

Использовать натив + ИИ ->
нужны компетенции

02

No code – дешевый MVP,
но сложно развивать



Выводы

01

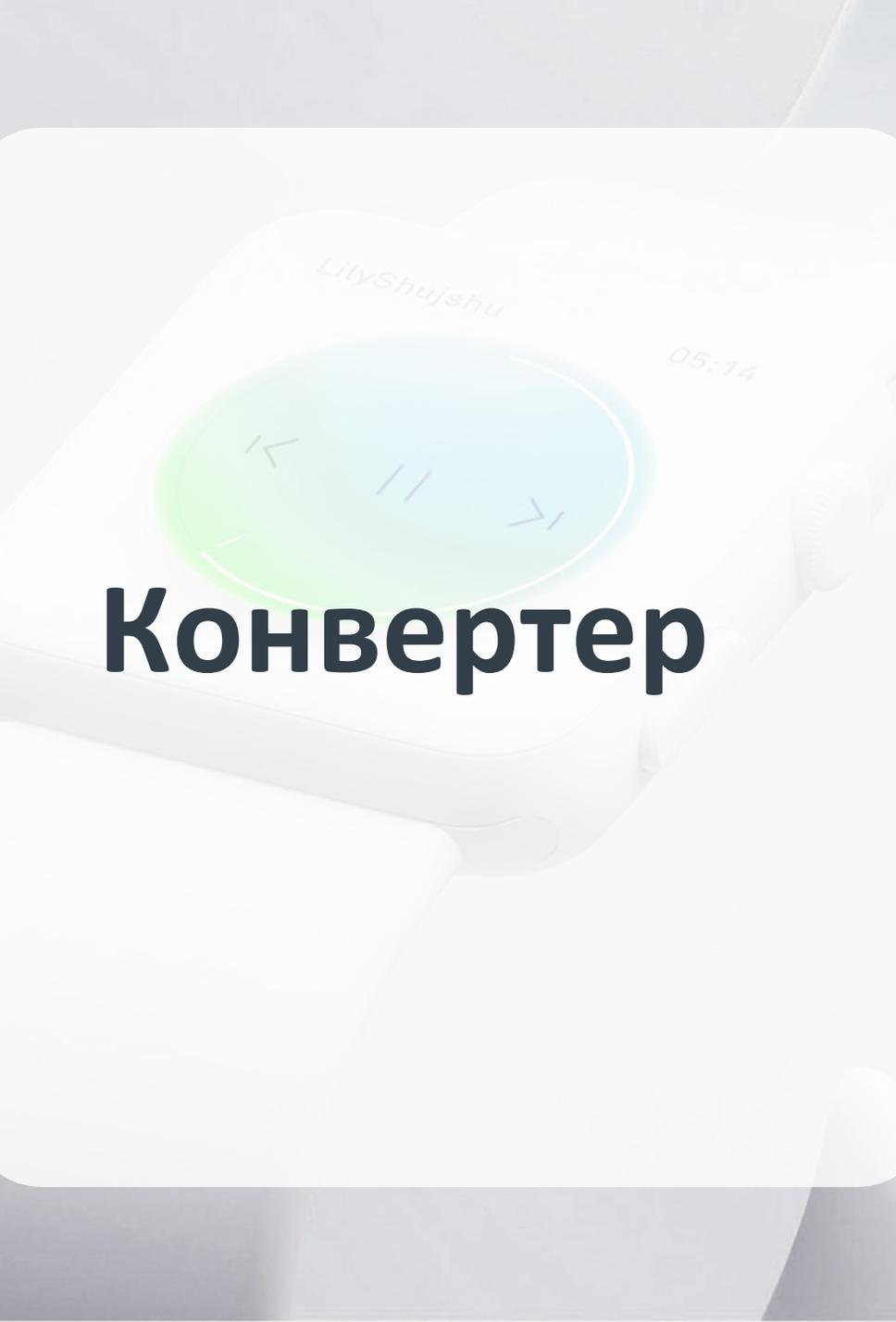
Использовать натив + ИИ ->
нужны компетенции

02

No code – дешевый MVP,
но сложно развивать

03

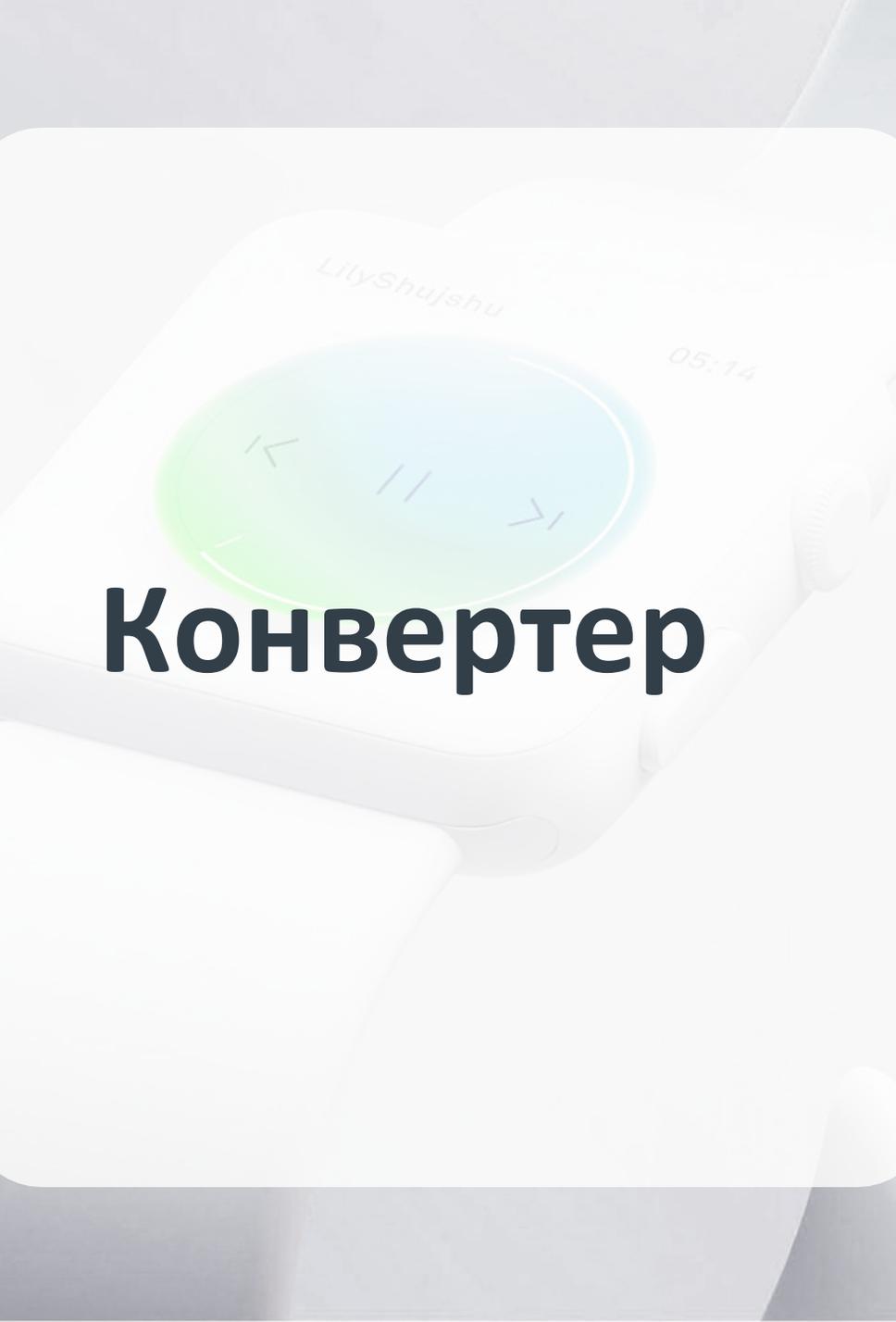
Конвертер –
кросс-платформа
на SwiftUI



Конвертер

01

Большинство проектов
слишком legacy



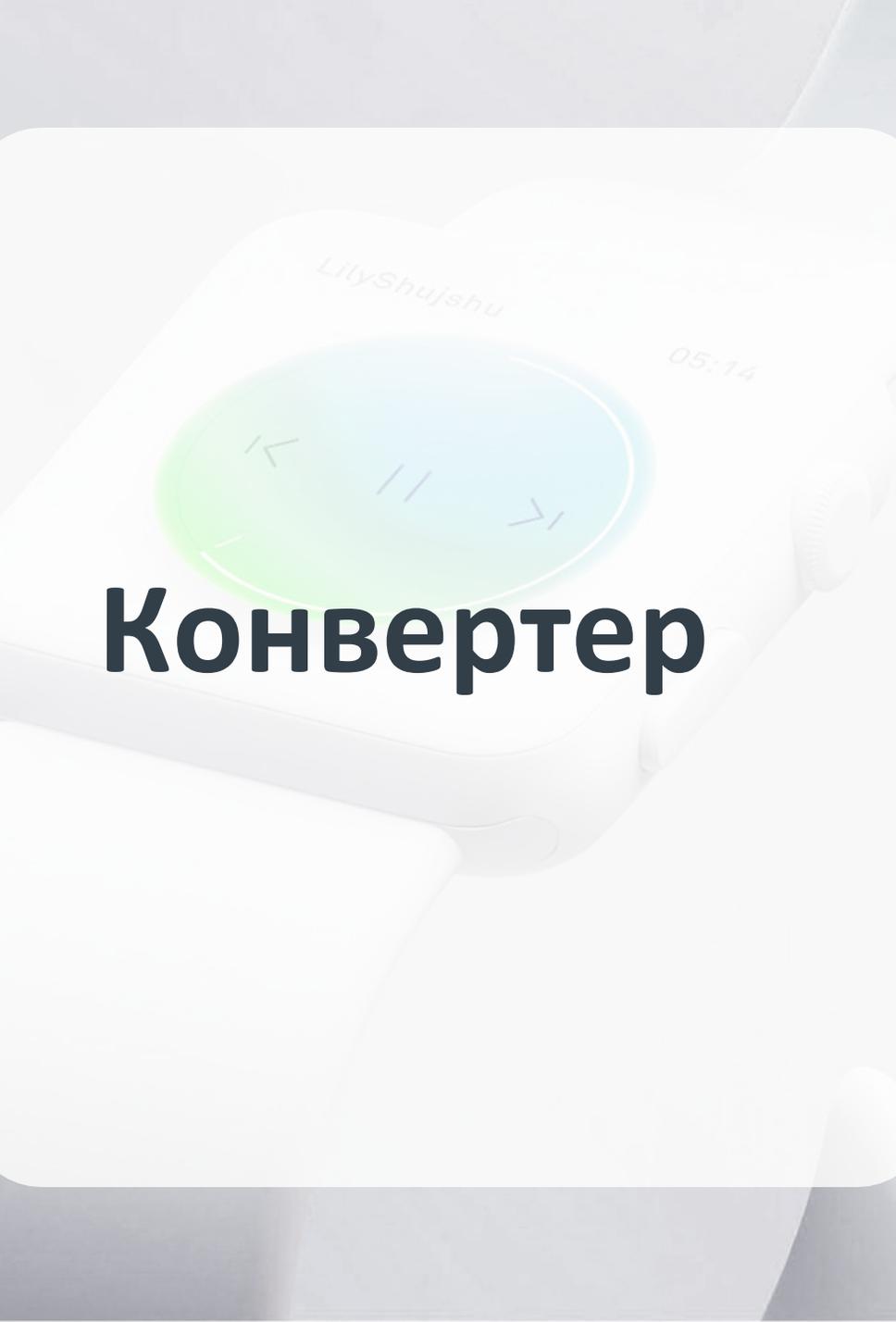
Конвертер

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Большинство проектов
слишком legacy

02

API ограничено –
или дописываем,
или переписываем



Конвертер

01

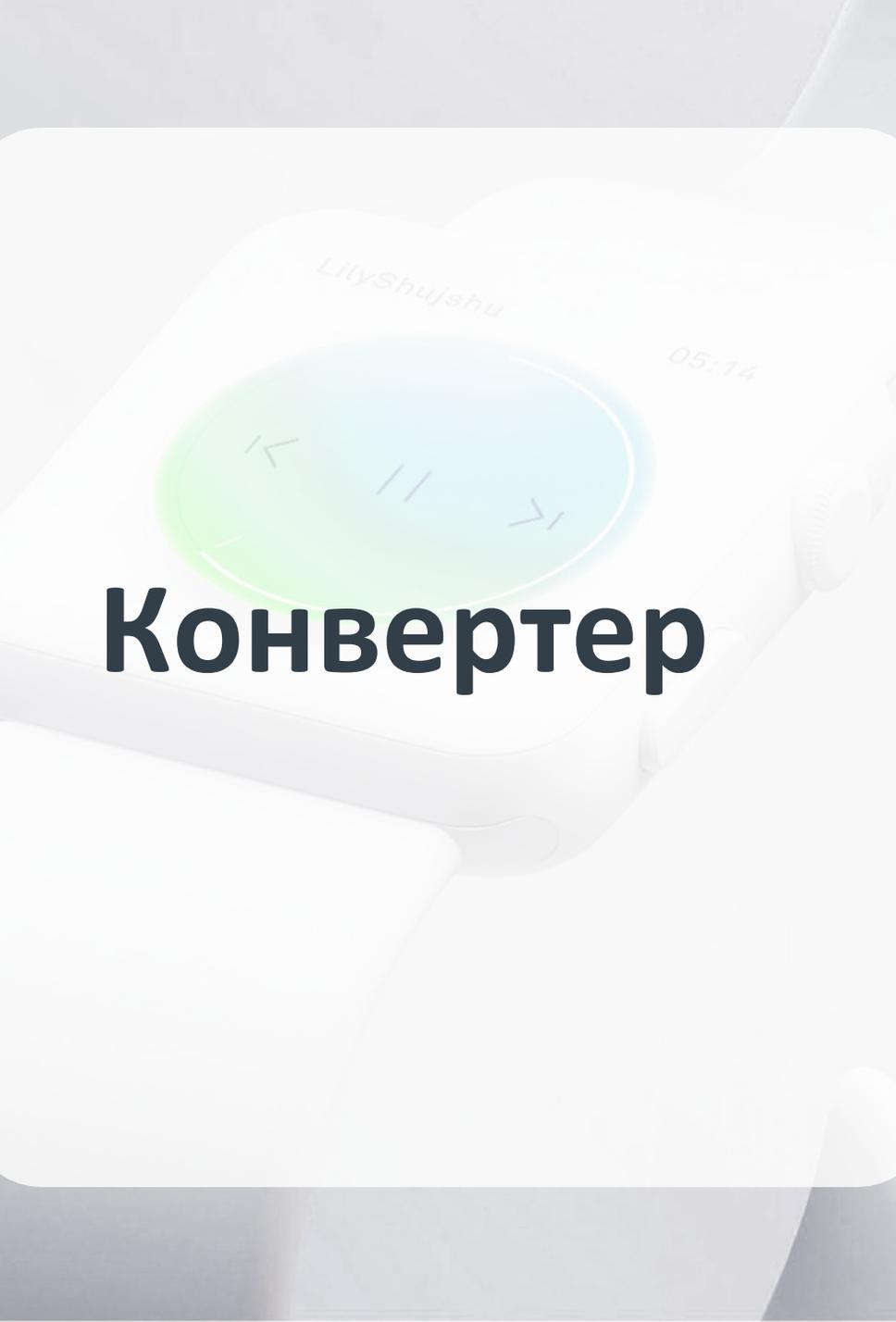
Большинство проектов
слишком legacy

02

API ограничено –
или дописываем,
или переписываем

03

Native Android
API недоступно



Конвертер

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Native Android
API недоступно

04

Слишком
молодой проект

Спасибо!

- ✓ DhiWise
- ✓ Glide
- ✓ Skip.tools



@NEIFMETUS