

KMP Starter Kit

A Kotlin + Compose Multiplatform starter kit codebase: auth, local storage, networking, onboarding, paywall, subscriptions, credits, push, ads, analytics, CI. Rename it, it is yours.

4 targets

Android · iOS · Desktop · Web

1 codebase

Compose Multiplatform

38 skills

for coding agents

Every app rebuilds the **same infrastructure.**

| Navigation, storage, networking

| Authentication

| Paywall, subscriptions, billing

| Push, analytics, signing, CI

| Then twice, Android and iOS

Built in.

Auth

Google · Apple ·
anonymous

Local storage

Room

Preferences

DataStore

Networking

Ktor

Notifications

Push · local

Subscriptions

Adapty · RevenueCat

Paywall

Screens

Credits

Earn · spend

Ads

AdMob

AI backend

OpenAI · Replicate

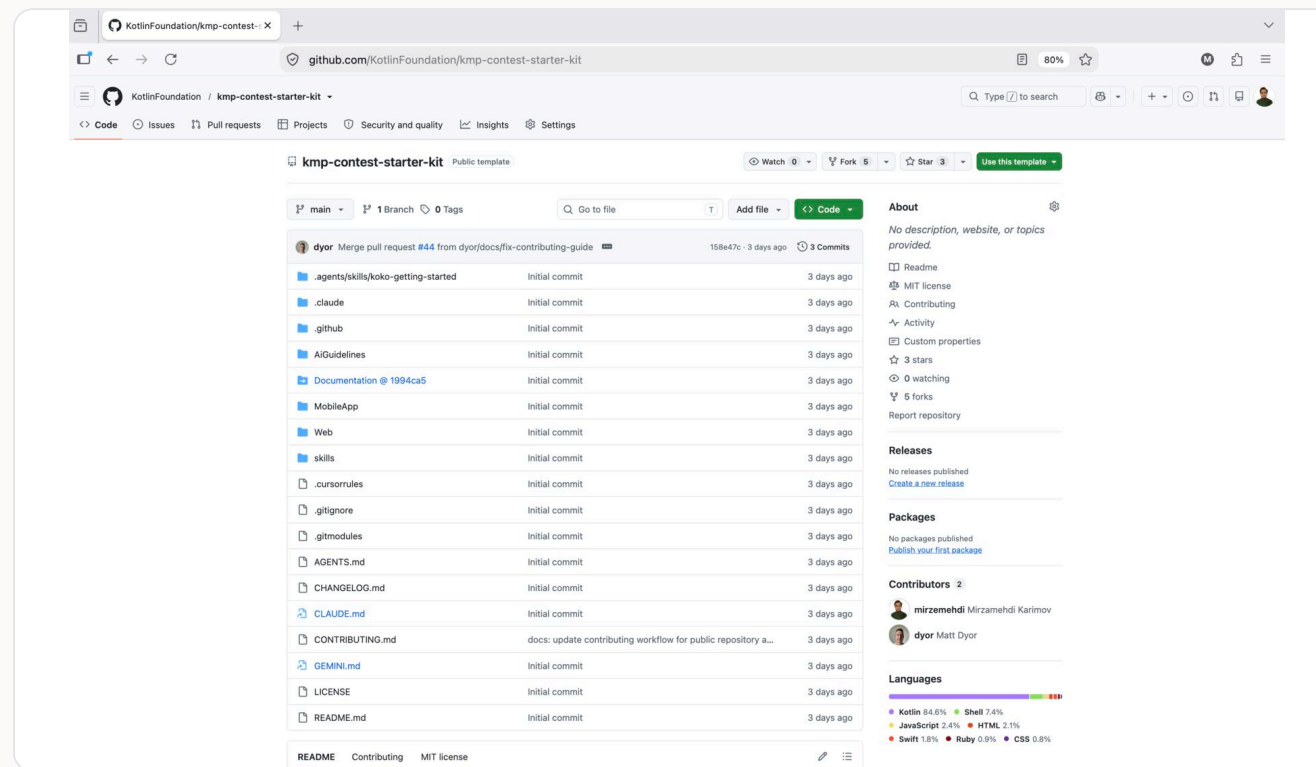
Analytics

Events · crashes

Release

Icons · signing ·
CI

Public template on GitHub.



Open it in any coding agent
"I want to build ..."

```
git clone github.com/KotlinFoundation/kmp-contest-starter-kit ShipatonApp
```

05

STRUCTURE

Where things live

MobileApp/

- ├─ androidApp/
- ├─ iosApp/
- ├─ desktopApp/
- ├─ webApp/
- ├─ **shared/** the app
- ├─ designsystem/
- └─ scripts/

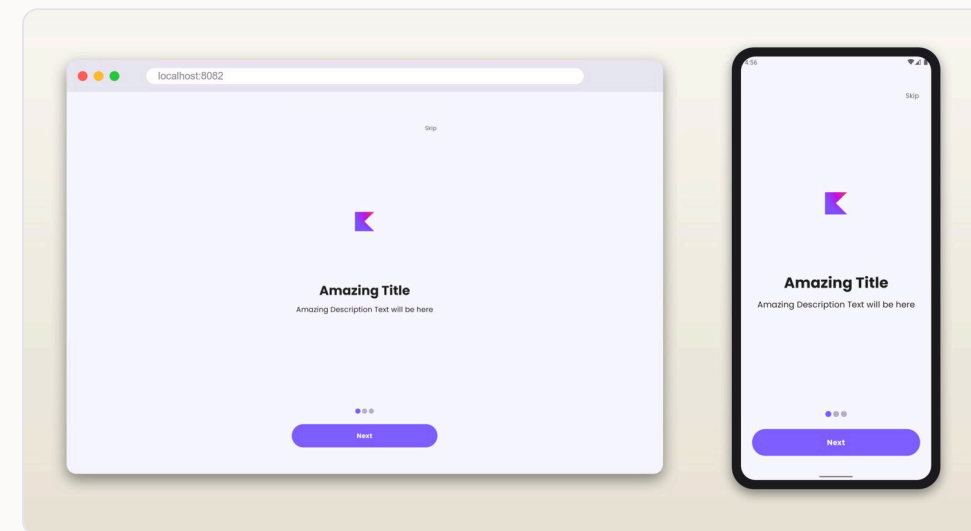
repo root

- ├─ **MobileApp/**
- ├─ **skills/**
- ├─ AiGuidelines/
- ├─ Web/
- ├─ Documentation/
- ├─ **AGENTS.md**
- └─ .github/

One codebase, four targets.

commonMain

- └─ `mobile` `android · ios`
- └─ `nonWeb` `+ jvm`
- └─ `nonMobile` `web · jvm`
- └─ `web` `js · wasmJs`



Run it

```
:androidApp:assembleDebug      Android  
:desktopApp:run                 desktop  
:webApp:wasmJsBrowserDevelopmentRun browser  
iOS: open iosApp.xcodeproj
```


The stack

Kotlin	2.4.0
Compose Multiplatform	1.11.1
Gradle	9.4.1
Koin	4.2.1
Navigation 3	1.1.1
Ktor	3.5.0
Room	3.0.0

DataStore	1.3.0
FileKit	0.14.1
KMPAuth	3.0.3
KMPNotifier	2.0.0
Firebase	34.14.1
Adapty	3.17.0
RevenueCat	3.0.6

Five phases.

1. GETTING STARTED

run it, make it yours

2. INTEGRATIONS

Firebase, auth, backend

3. PUBLISHING

icons, signing, stores

4. MONETIZATION

subscriptions, paywall, ads

5. GROWTH

analytics, push, referrals

38 skills

PHASE 1

getting-started

- new-app
- build-features
- new-screen
- new-local-model
- add-api-service
- save-preferences
- add-permission
- refactor-package
- run-the-app
- new-module

PHASE 2

integrations

- setup-firebase
- enable-auth
- integrate-web-proxy
- sync-data-firebase
- configure-environment

PHASE 3

publishing

- generate-app-icons
- setup-signing
- bump-version
- capture-app-screens
- setup-google-play
- setup-appstore-connect
- publish-release

PHASE 4 · 5

monetization

- design-paywall
- setup-subscriptions
- enable-credits
- enable-ads
- growth
- setup-analytics
- enable-notifications
- design-onboarding
- add-virality-loop

ANY TIME

- verify-ui
- run-quality-gates
- sync-template

Claude Code · Cursor · Gemini CLI · Copilot

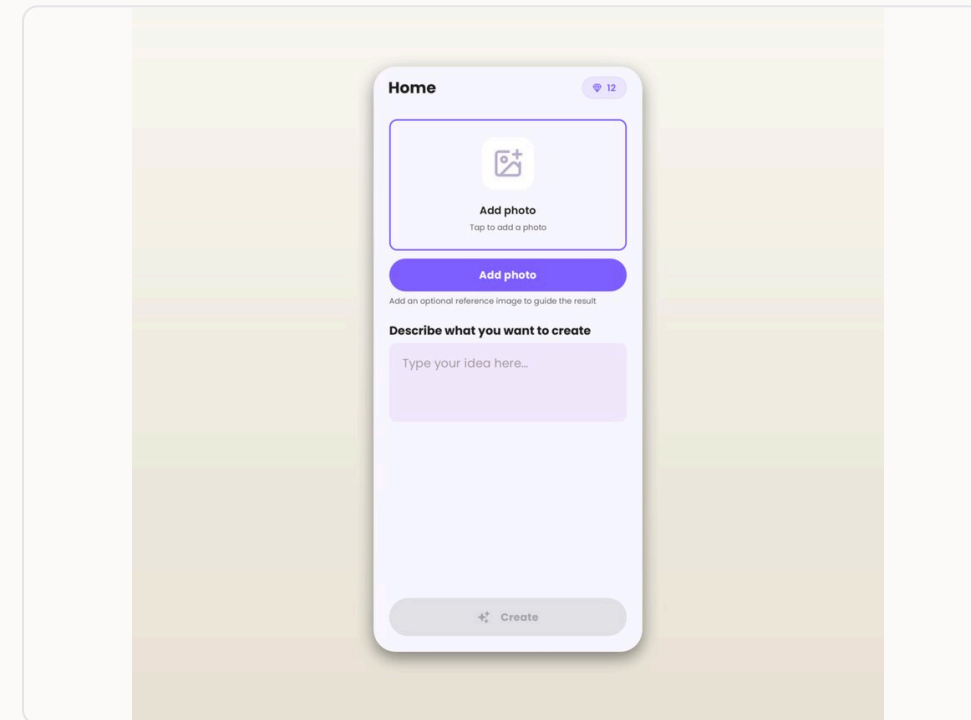
The agent checks its own work.

Unit tests

Headless UI tests

Screenshot tests

Renders a PNG, looks at it



Generators do the wiring.

generate_screen.sh	Habits	screen + route + DI
make_local.sh	Habit	model + Room + Koin
refactor_package.sh		rename everything
sync_template.sh		pull kit updates

The **Web** folder.

Web/

- └─ **functions/** Cloud Functions
 - └─ **api/** openai · replicate
- └─ **public/** landing page
 - └─ index.html
 - └─ privacy-policy.html
 - └─ terms-conditions.html

AI proxy

keys never ship in
the app

Token checked

Firebase ID token
verified

Landing page

deploy to Firebase
Hosting

Privacy · terms

both stores ask
for these

The AiGuidelines folder.

```
AiGuidelines/  
├─ project/    your product  
│  ├─ prd.md  
│  ├─ user_flow.md  
│  ├─ ui_ux.md  
│  ├─ onboarding.md  
│  └─ payroll.md  
├─ agents/     role prompts  
├─ tech/       layer patterns  
└─ creative/   animation, easter eggs
```

project/

what your app is.
the agent writes
it with you

agents/

product designer,
UX strategist,
paywall designer

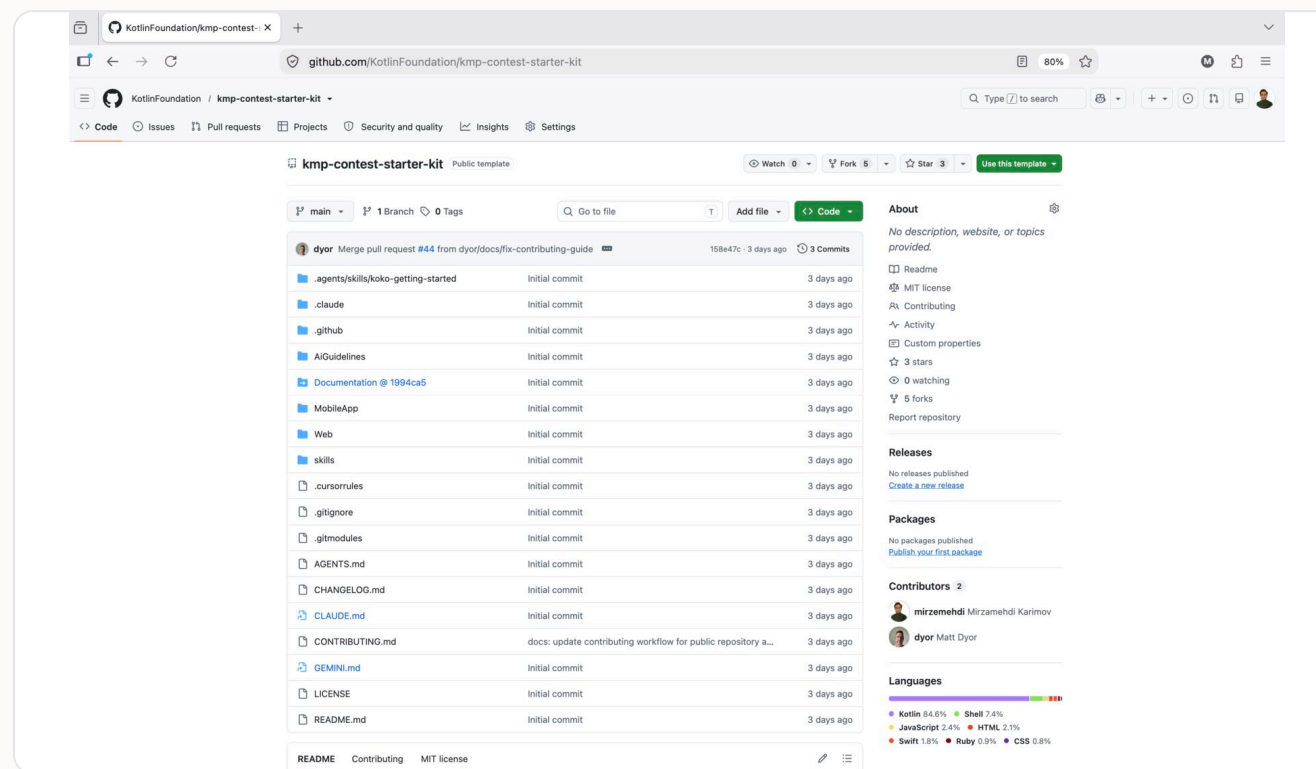
tech/

repository, DI,
coroutines,
presentation

creative/

animation
patterns, easter
eggs

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