



Notifiche Push con Flutter e Push Kit

venerdì 4 giugno 2021 21.00

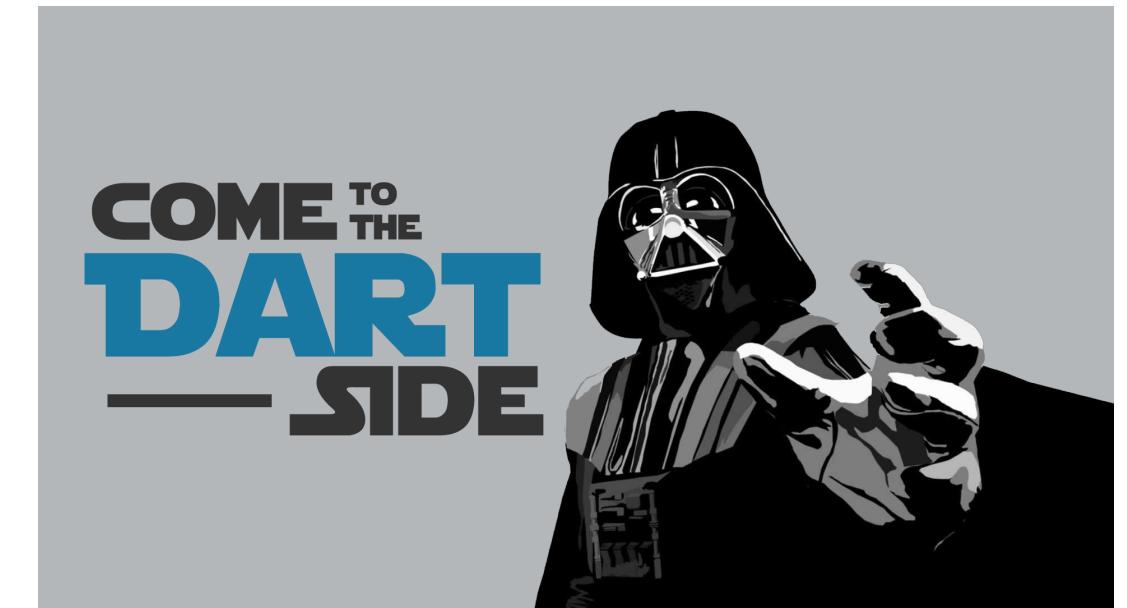
Evento online gratuito



**Federico
Parezzan**
Software Engineer

Federico Parezzan

Java Developer



Sviluppatori Flutter



federico-parezzan



perez93



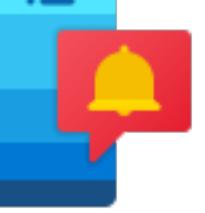
parezzan.com

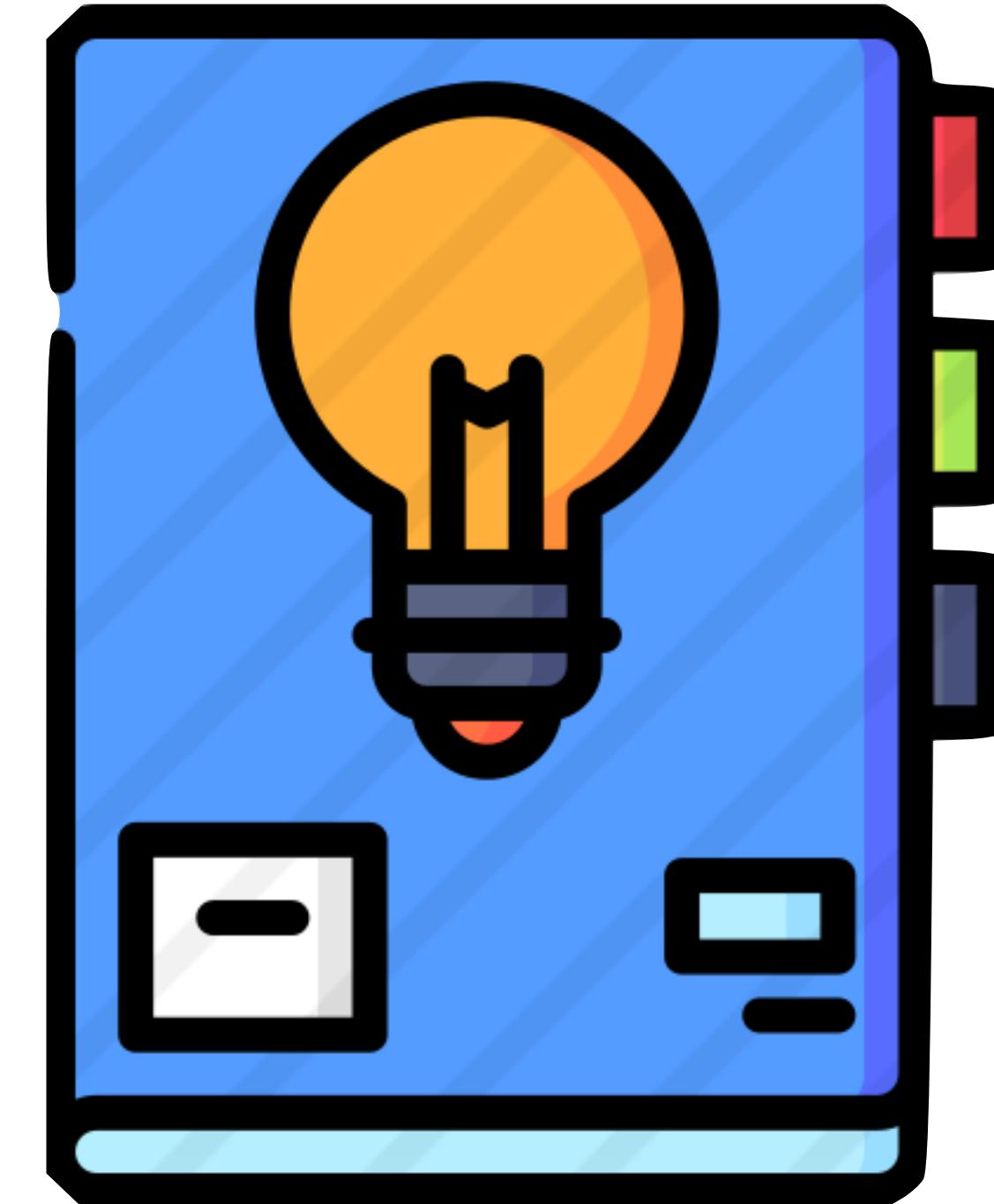


thecmmbay.com

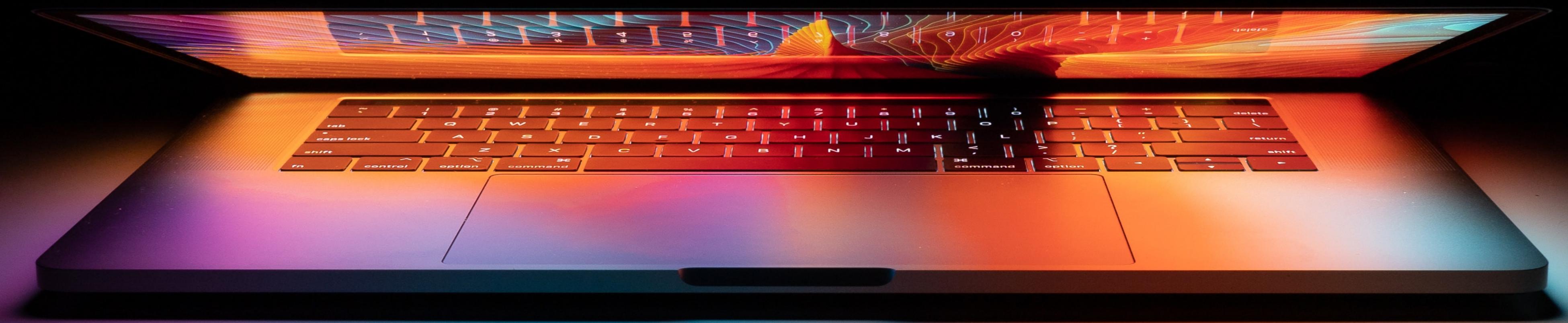
Sono un essere umano, nulla che sia umano mi è estraneo ~ Terenzio

Agenda

-  Huawei introduction
-  Push Kit introduction
-  Environment configuration
-  Push Kit in Flutter
-  Enzo, pls send me a coupon!
-  What's next?



INTRO



Why Huawei?



New market investment possibilities



New alternative app store



Alternative solution to Google

A little bit of history



More info: <https://www.xda-developers.com/google-revoke-huawei-android-ban-blacklist/>

PUSH KIT



What is Push Kit

HUAWEI Push Kit is a **messaging service** provided for you to establish a messaging **channel from the cloud to devices**. By integrating Push Kit, you can send messages to your apps on user devices in **real time**.

Why Push Kit



Precise push



Various styles



Simple operations



Auto language selection



Global coverage



Cross-platform development

Supported devices

Device Type	OS Version	HMS Core (APK) Version
Huawei phones and tablets	EMUI 5.0 or later	
Non-Huawei phones and tablets	Android 5.0 or later	3.0.0 or later
iPhones	iOS 10.0 or later	

Message Types



Notification message



Data Messages

ENVIRONMENT PREPARATION

<https://developer.huawei.com/consumer>

Configuring App in AppGallery

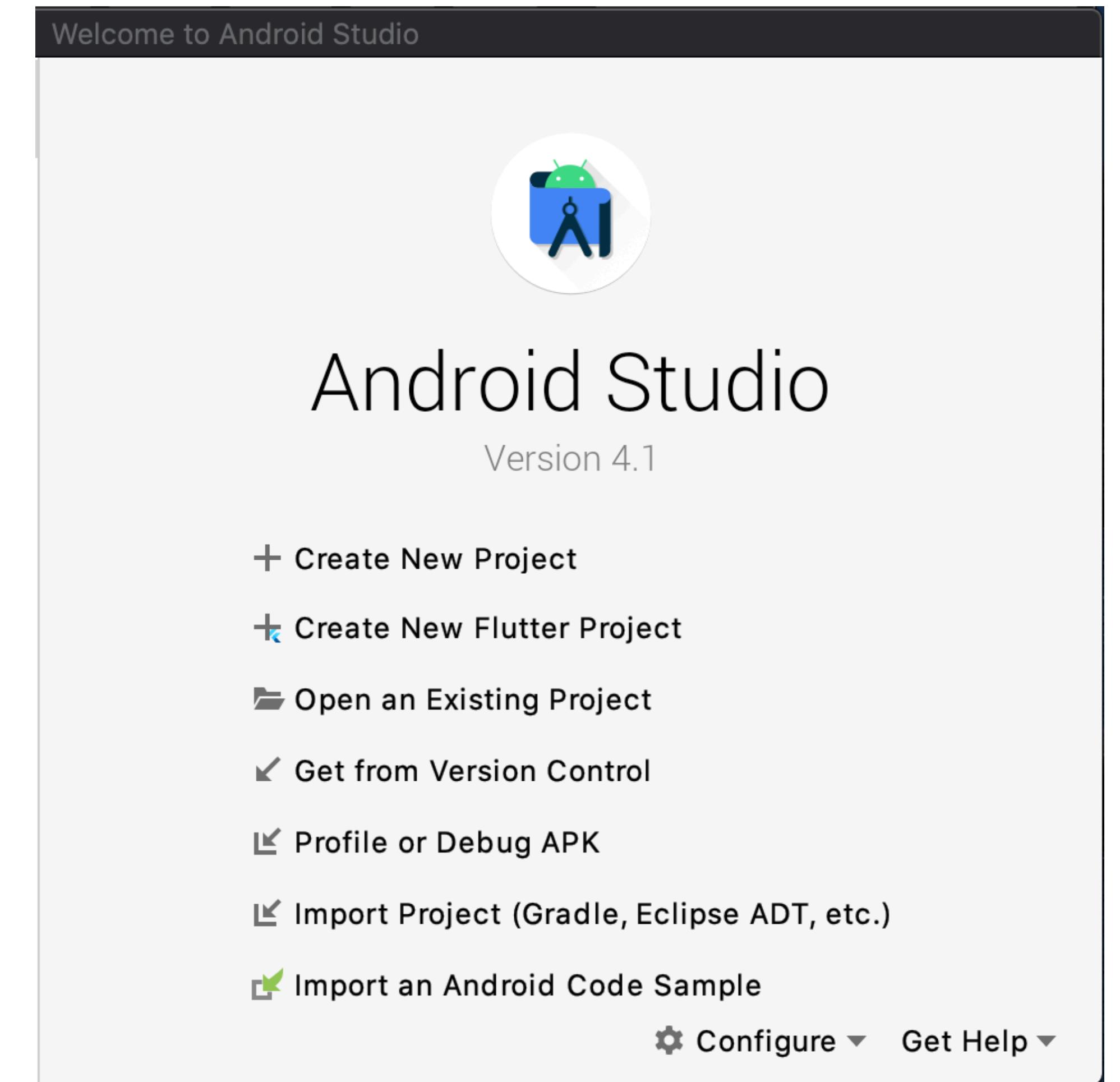
1

Creating an App in AppGallery Connect

The screenshot shows the 'Project Setting' section of the AppGallery Connect interface. On the left, there's a sidebar with sections like 'Earning', 'Growing', and 'Build'. The main area is titled 'General information' under 'Developer information'. It shows fields for 'Developer ID' (redacted), 'Public key' (redacted), 'Client ID' (redacted), and 'Client key' (redacted). A red box highlights the 'App information' section at the bottom right, which contains fields for 'Package name' (com.huawei.hmsdemo), 'App ID' (redacted), 'API key' (redacted), 'App key' (redacted), and 'SHA-256 certificate fingerprint' (redacted). There's also a 'Delete app' button.

Configuring App in AppGallery

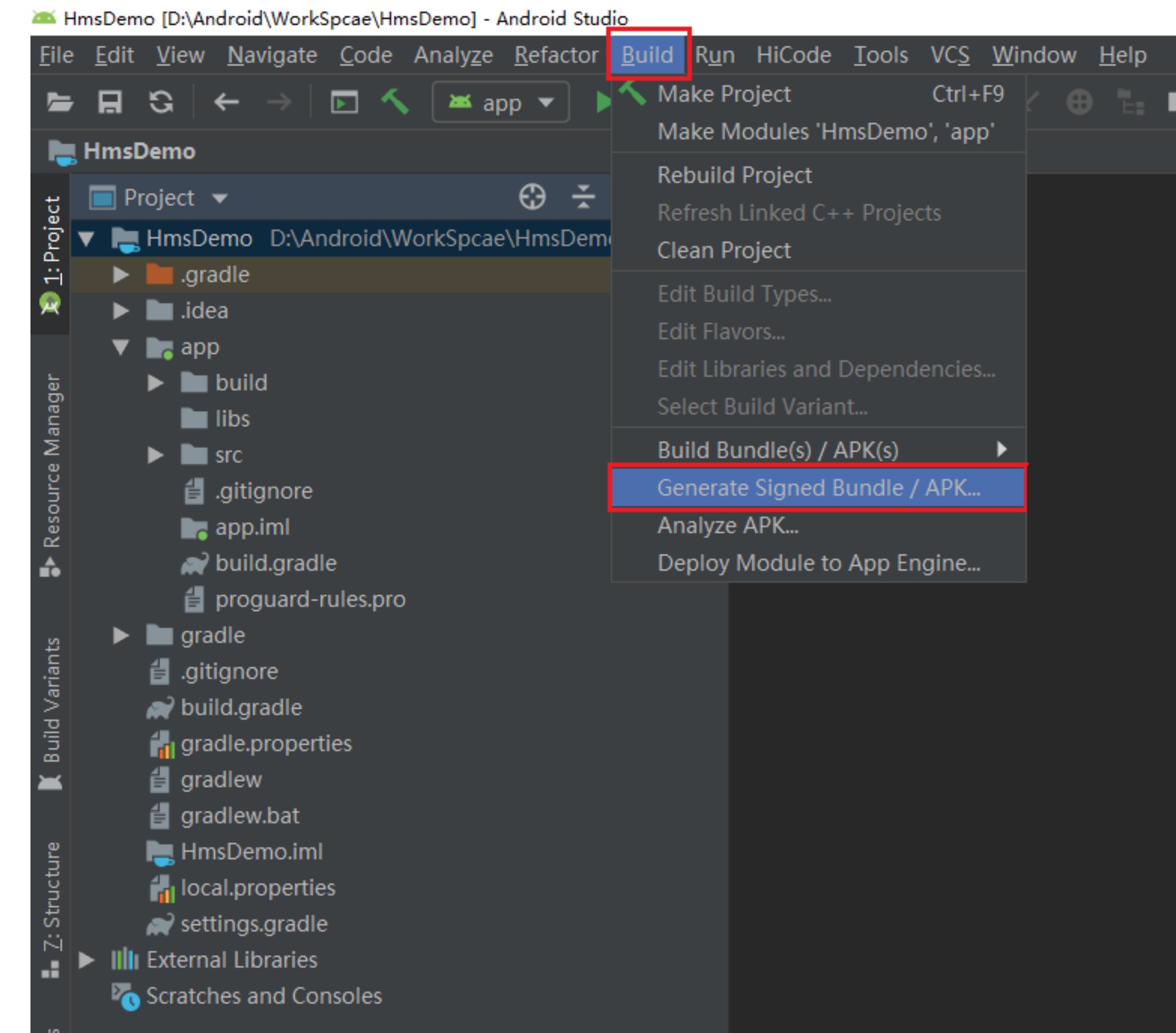
2 Creating an Android Studio Project



Configuring App in AppGallery

3

Generating a Signing Certificate



Configuring App in AppGallery

4

Generating a Signing Certificate Fingerprint

```
C:\windows\system32\cmd.exe

D:\Android\Jdk\bin>keytool -list -v -keystore D:\Android\WorkSpcae\HmsDemo\app\HmsDemo.jks
???????: 
???????: jks
???????: SUN

???????: 1 ???

???: hmsdemo
?????: 2019-9-27
?????: PrivateKeyEntry
?????: 1
??[1]:
???: CN=HUAWEI, OU=HUAWEI, O=HUAWEI, L=NanJing, ST=JiangSu, C=CN
???: CN=HUAWEI, OU=HUAWEI, O=HUAWEI, L=NanJing, ST=JiangSu, C=CN
???: 7048483b
???? Fri Sep 27 14:40:08 CST 2019 ? Tue Sep 20 14:40:08 CST 2044
????:
        MD5: B9:21:9A:3F:DB:5C:F2:F6:7F:77:F3:A8:6C:38:4F:D2
        SHA1: 8D:D0:01:30:9B:B1:0E:54:A7:1C:3F:4A:12:E7:81:8B:CD:57:24:22
        SHA256: 00:55:26:3B:13:03:17:DE:23:27:3A:E1:E7:01:03:21:07:07:D7:22:01:3D:12:00:77:D8:07:27:1D:07:77
?????: SHA256withRSA
?????????: 2048 ? RSA ??
???: 3

??: 

#1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: D0 F6 31 75 53 EA F6 89    90 CC 3F BF 5D 3B 51 3A  ..1u$....?.1;Q:
0010: 0A A4 26 F4                  ..&.
]
]

*****
*****
```

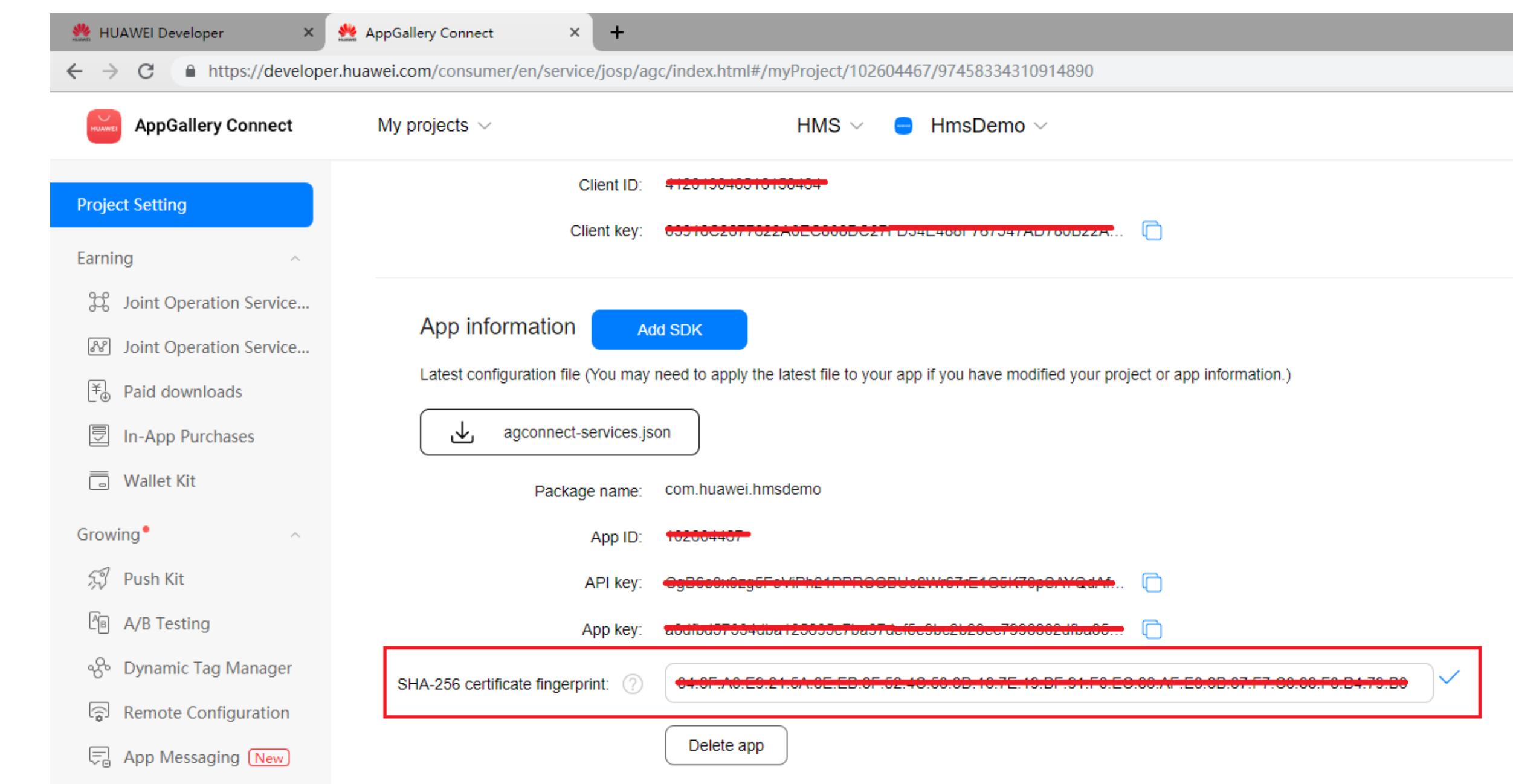
Warning:
JKS ?????????????? "keytool -importkeystore -srckeystore D:\Android\WorkSpcae\HmsDemo\app\HmsDemo.jks -destkeystore D:\Android\WorkSpcae\HmsDemo\app\HmsDemo.jks -deststoretype pkcs12" ???????? PKCS12?

D:\Android\Jdk\bin>

Configuring App in AppGallery

5

Add fingerprint certificate to AppGallery Connect



Configuring App in AppGallery

6

Enabling the Push Kit Service

AppGallery Connect My apps test

Distribute Operate

Products

- Product Management
- Game Achievements
- Game Event
- Leaderboard
- Achievement Details
- Leaderboard Details
- Event Reporting Det...

Promotion

- Push Kit**

Users

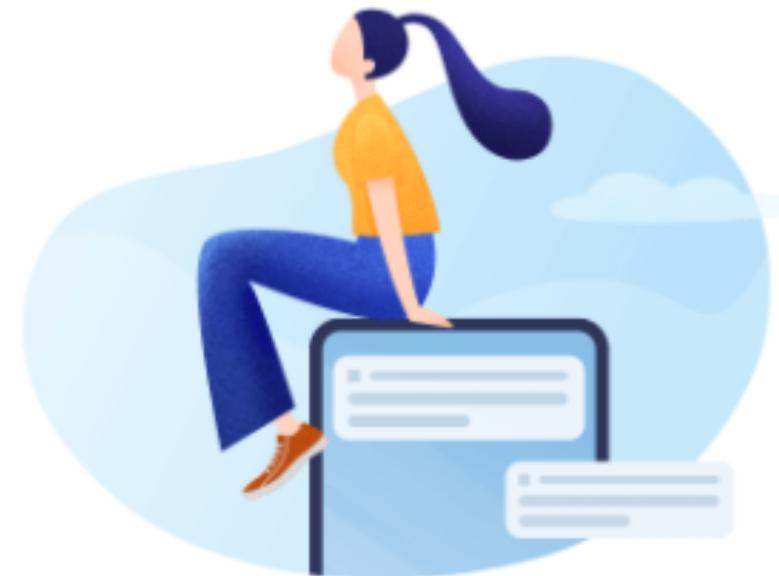
- Comments
- Developer's message

HUAWEI Push Kit

Reach target users by pushing real-time messages to their devices efficiently.

Note: If your app is not added to a project, Push Kit cannot be enabled. If no data storage location is specified, messaging based on the topic, device group, or web push agent will be unavailable. If the Advanced Analysis function is not enabled, the A/B testing, prediction, audience-based messaging, and report functions will be unavailable.

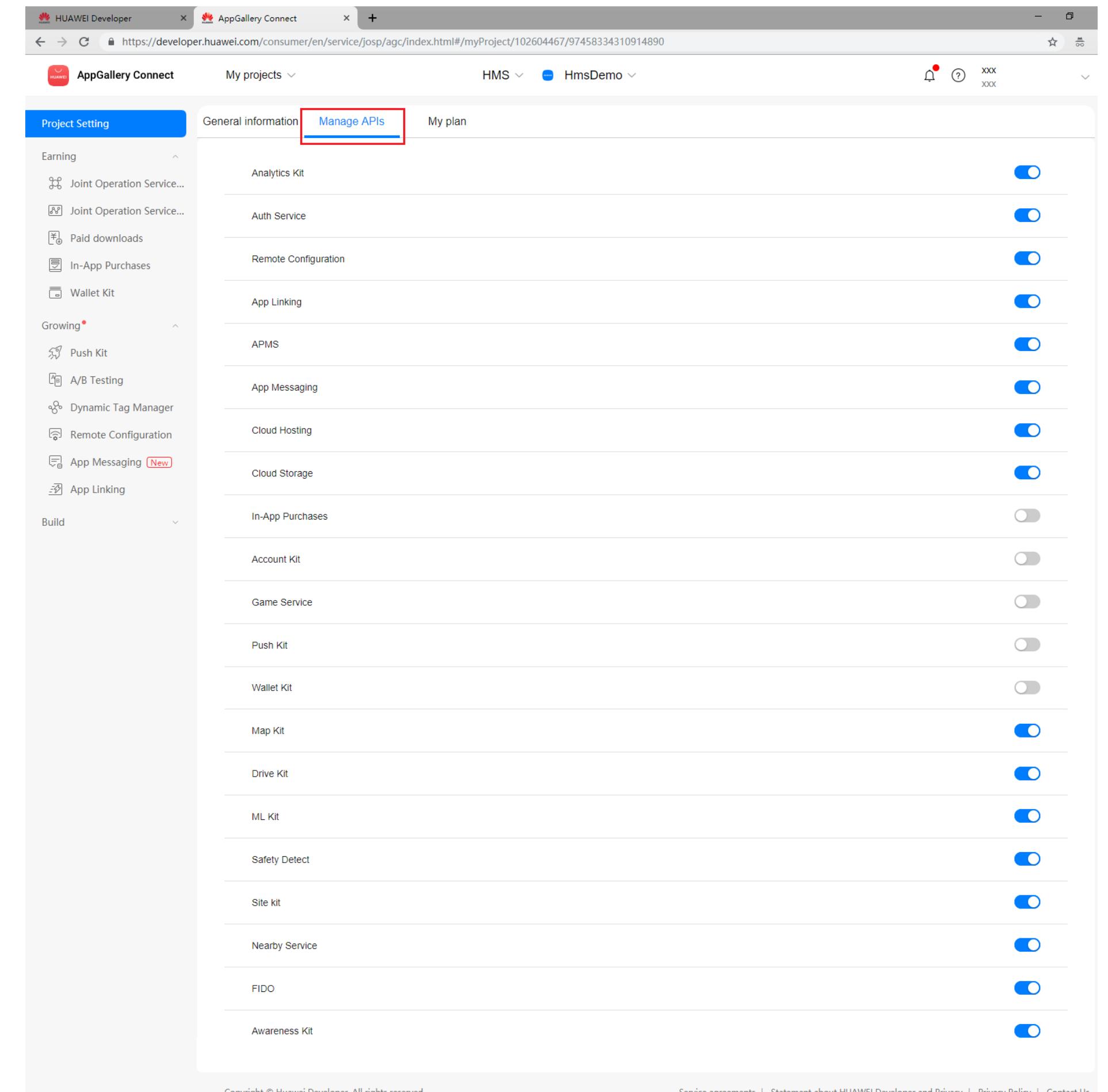
Enable now



Configuring App in AppGallery

7

Enabling the API Service on the AppGallery Connect

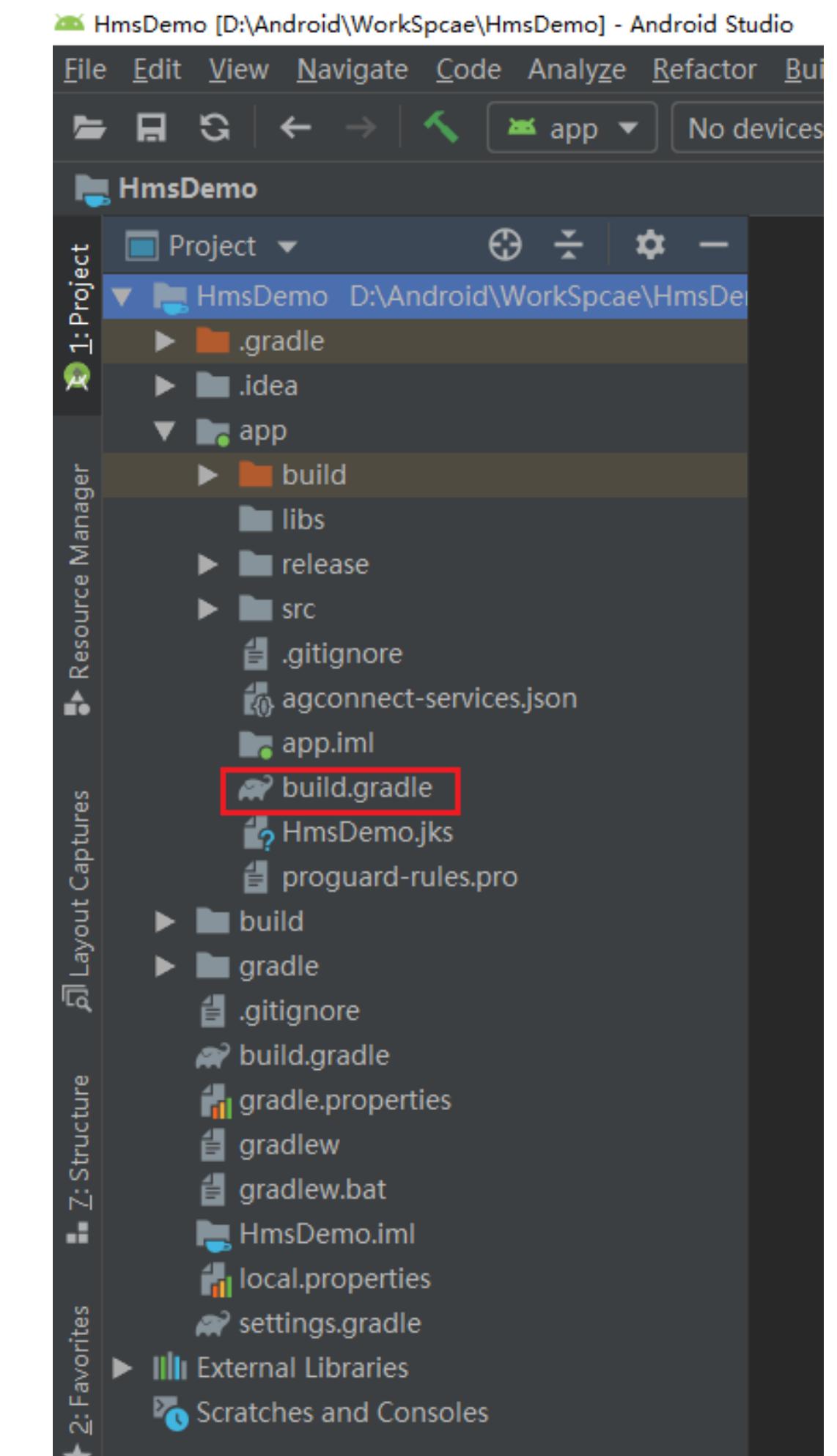


Integrating Flutter Push Plugin

8

Add configuration

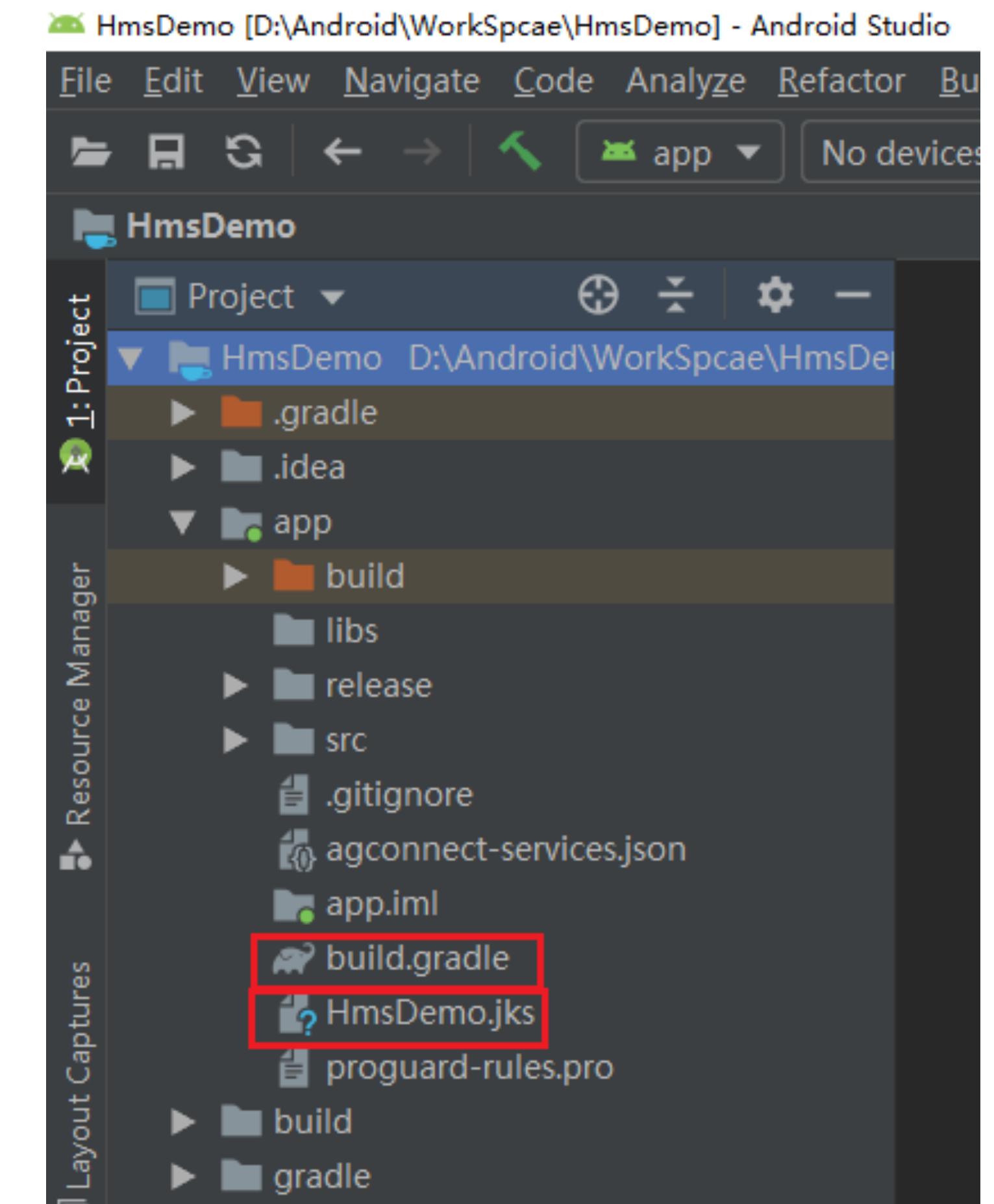
The screenshot shows the 'General information' tab in the AppGallery Connect interface. On the left, there's a sidebar with sections like 'Earning', 'Growing*', and 'Build'. The main area displays 'Developer information' with fields for 'Developer ID' (redacted) and 'Public key' (redacted). Below that is the 'Project' section with 'Project name' set to 'HMS'. Under 'App information', there's a button to 'Add SDK' and a note about the latest configuration file. A red box highlights the 'agconnect-services.json' download button.



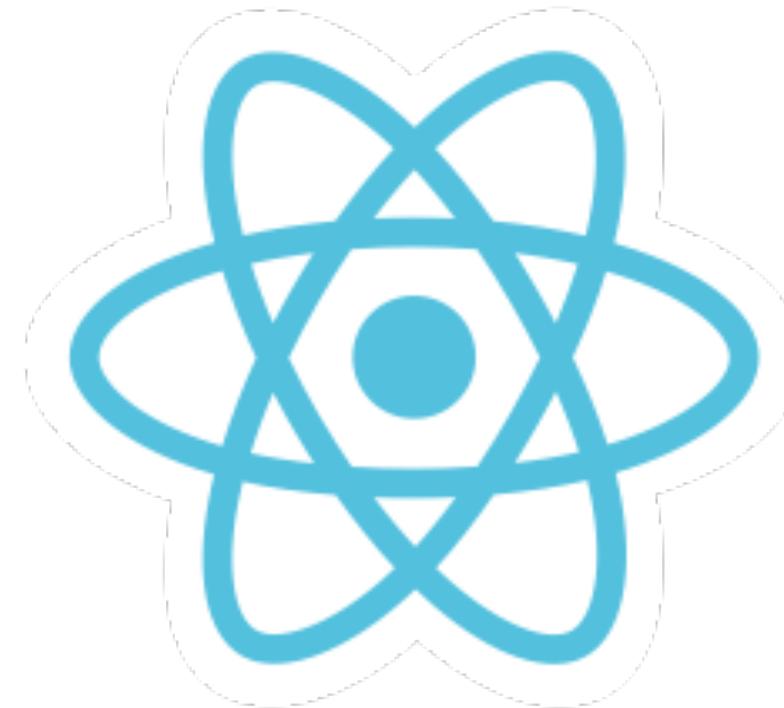
Configuring App in AppGallery

9

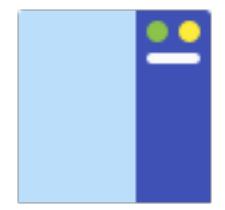
Configure project signature



Supported platform



Why Flutter?



Optimized for UI



Productive development



Fast on all platforms



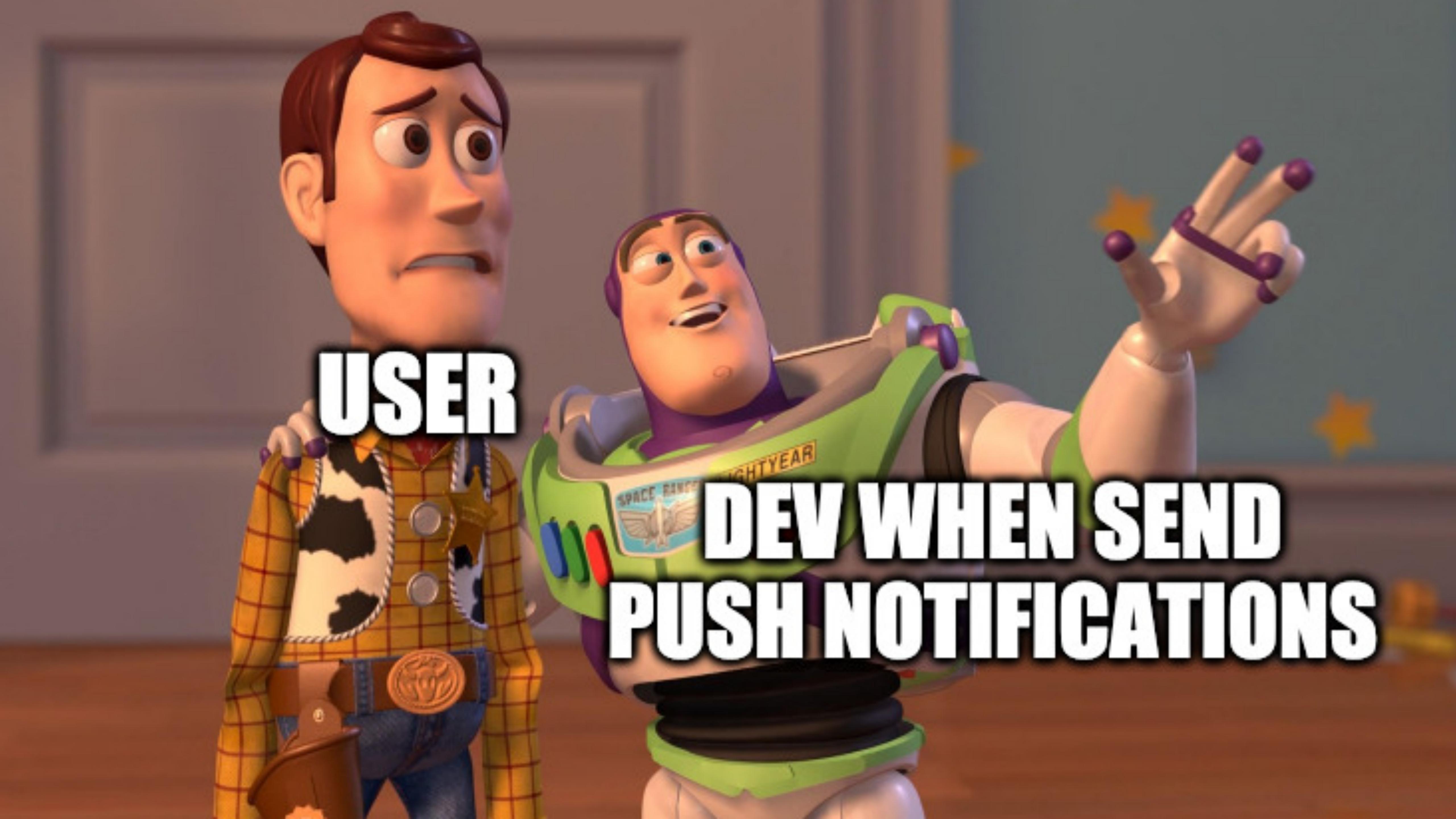
MANI IN PASTA!

Demo

Recap

What we have learned

- 👉 Huawei opportunity
- 👉 An introduction of Push Kit
- 👉 Project configuration
- 👉 An introduction of Push Kit in Flutter

A scene from Toy Story featuring Woody the牛仔 and Buzz Lightyear the太空骑警。Woody站在左侧，面露惊讶之色，身上穿着他的标志性黄色牛仔衬衫和牛仔裤。Buzz则在右侧，张大嘴巴，双臂高举，做出一个胜利的手势，身上穿着他的绿色太空骑警制服，胸前印有“SPACE RANGER”和“LIGHTYEAR”的字样。

USER

**DEV WHEN SEND
PUSH NOTIFICATIONS**



Q&A

QUIZ

Take your KIT as name!

- Accelerate Kit
- Account Kit
- Ads Kit
- Analytics Kit
- AR Engine
- Audio Kit
- Awareness Kit
- Computer Graphics Kit
- Drive Kit
- Health Kit
- HEM Kit
- hQUIC Kit
- Identity Kit
- Image Kit
- Location Kit
- Map Kit
- ML Kit
- Network Kit
- Panorama Kit
- Push Kit
- Scan Kit
- Scene Kit
- Search Kit
- Site Kit
- Video Kit
- Wallet Kit
- Wireless Kit