UPC – HACKATHON
PARTICIPANTS DOCUMENTATION

1. Overview

This document will help you to register as Huawei Developer and start apps development/debugging using Huawei Mobile Services (HMS).

2. Register as Huawei Developer

To register as Huawei Developer you need to sign in to HUAWEI Developers with a valid HUAWEI ID (register for a HUAWEI ID if you do not have one) and click Sign in.

2.1 Account verification

All Huawei Developer accounts must be verified before app development, you can follow one of the following methods to verify your account:

- Option 1: Follow the standard account verification process which is described here, then send the name and HUAWEI ID of team members to zhuqi.jiang@huawei.com for faster approval.
- Option 2: Following the same instruction in Option 1 but instead of uploading ID/Passport and Bankcard, just upload any other picture, then send the name and HUAWEI ID of team members to zhuqi.jiang@huawei.com to verify your account.
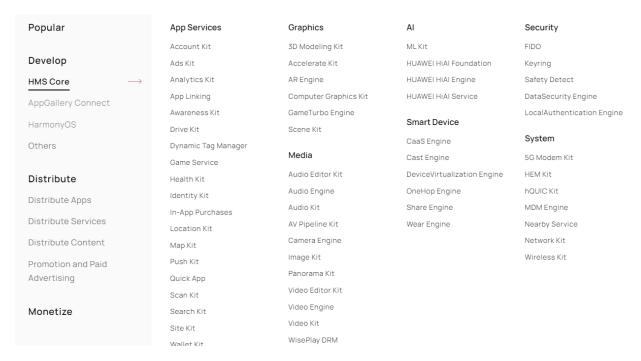
3. Start development

Once registered as a developer, in AppGallery Connect create a new project and enable all services required. For more information, you can follow the official documentation in this link.

When creating your project in AppGallery Connect, enter the package name with the prefix "**com.hsd.upc.hack".** Be aware that the package name cannot be changed.

You can choose any HMS Core capability which is suitable for your app. You can find capabilities introduction below. Furthermore you can develop your app in native technology or cross-platform(flutter, cordova etc.):

https://developer.huawei.com/consumer/en/hms

Popular	App Services	Graphics	AI	Security
Develop	Account Kit	3D Modeling Kit	ML Kit	FIDO
	Ads Kit	Accelerate Kit	HUAWEI HiAI Foundation	Keyring
HMS Core →	Analytics Kit	AR Engine	HUAWEI HiAI Engine	Safety Detect
AppGallery Connect	App Linking	Computer Graphics Kit	HUAWEI HiAI Service	DataSecurity Engine
HarmonyOS	Awareness Kit	GameTurbo Engine		LocalAuthentication Engine
Others	Drive Kit	Scene Kit	**Smart Device**	
	Dynamic Tag Manager		CaaS Engine	**System**
Distribute	Game Service	**Media**	Cast Engine	5G Modem Kit
Distribute Apps	Health Kit	Audio Editor Kit	DeviceVirtualization Engine	HEM Kit
Distribute Services	Identity Kit	Audio Engine	OneHop Engine	hQUIC Kit
Distribute Content	In-App Purchases	Audio Kit	Share Engine	MDM Engine
Promotion and Paid Advertising	Location Kit	AV Pipeline Kit	Wear Engine	Nearby Service
	Map Kit	Camera Engine		Network Kit
Monetize	Push Kit	Image Kit		Wireless Kit
	Quick App	Panorama Kit		
	Scan Kit	Video Editor Kit		
	Search Kit	Video Engine		
	Site Kit	Video Kit		
	Wallet Kit	WisePlay DRM		

4. Debugging your app

a. **If you have a Huawei phone:** you can debug with your phone directly since HMS core is pre-installed on the phone.

b. **If you don't have a Huawei phone:**

Option 1: Temporary install HMS Core on your own device. Firstly you need to install Huawei AppGallery on your own Android device, then find HMS Core in App Gallery and install it. After HMS Core is installed, you can debug the App with your own phone.

      i. **Download for Windows.** Link

      ii. **Download from your Android Phone.**

Option 2: Use Cloud Debugging to debug based on cloud devices. Use Cloud Debugging, you can follow this Guide to debug based on cloud devices, you can find a video tutorial here.