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LẬP TRÌNH ỨNG DỤNG DI ĐỘNG Mobile Application Programming

ET4710

PGS. TS. Đỗ Trọng Tuấn Viện Điện tử Viễn thông * Đại học Bách Khoa Hà Nội

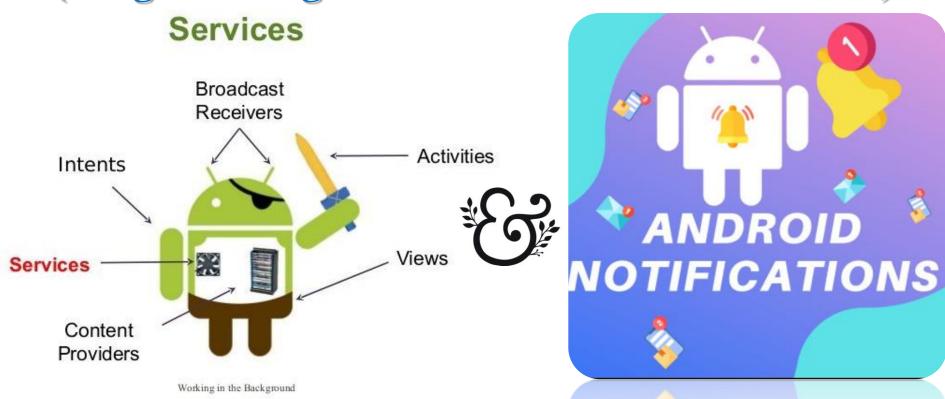
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Lập trình ứng dụng di động

CHUONG 7.

Lập trình xử lý dịch vụ và thông báo

(Programming with services and notifications)





Lập trình ứng dụng di động

CHUONG 7.

Lập trình xử lý dịch vụ và thông báo (Programming with services and notifications)

7.1. Lập trình với thoại và tin nhắn text

(Telephony and SMS Applications Programming)

7.2 Lập trình với các dịch vụ hệ thống và điều khiển thiết bị

(System and device control)



App Component

Activities

An activity represents a single screen with a user interface, in-short Activity performs actions on the screen.

Services

A service is a component that runs in the background to perform long-running operations.

Broadcast Recievers

Broadcast Receivers simply respond to broadcast messages from other applications or from the system.

Content Providers

A content provider component supplies data from one application to others on request.







Services overview

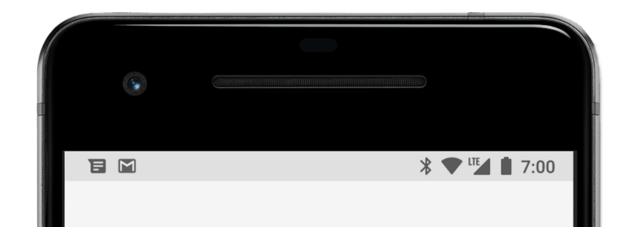
- A Service is an application component that can perform long-running operations in the background. It does not provide a user interface.
- Once started, a service might continue running for some time, even after the user switches to another application.
- Additionally, a component can bind to a service to interact with it and even perform interprocess communication (IPC).
- For example, a service can handle network transactions, play music, perform file I/O, or interact with a content provider, all from the background.

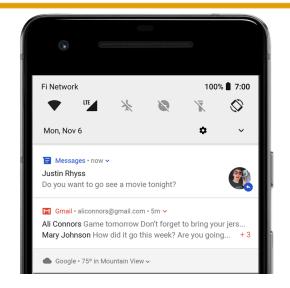


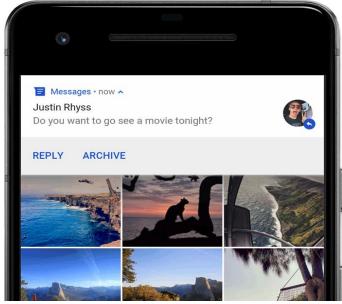
Notifications Overview

• A notification is a message that Android displays outside your app's UI to provide the user with reminders, communication from other people, or other timely information from your app.

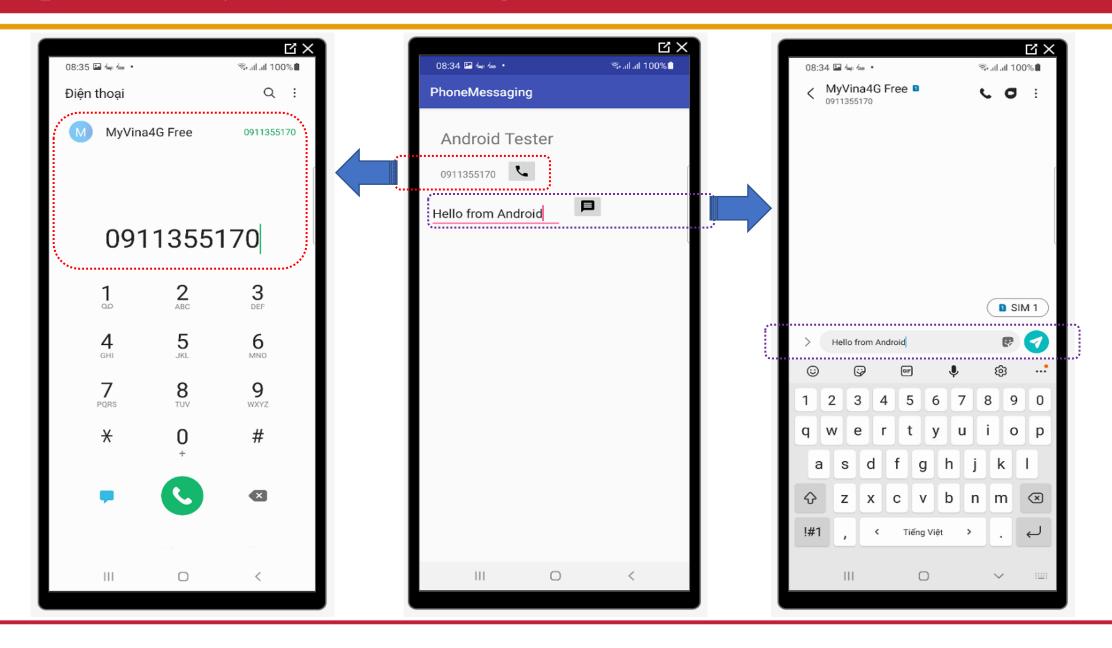
 Users can tap the notification to open your app or take an action directly from the notification.



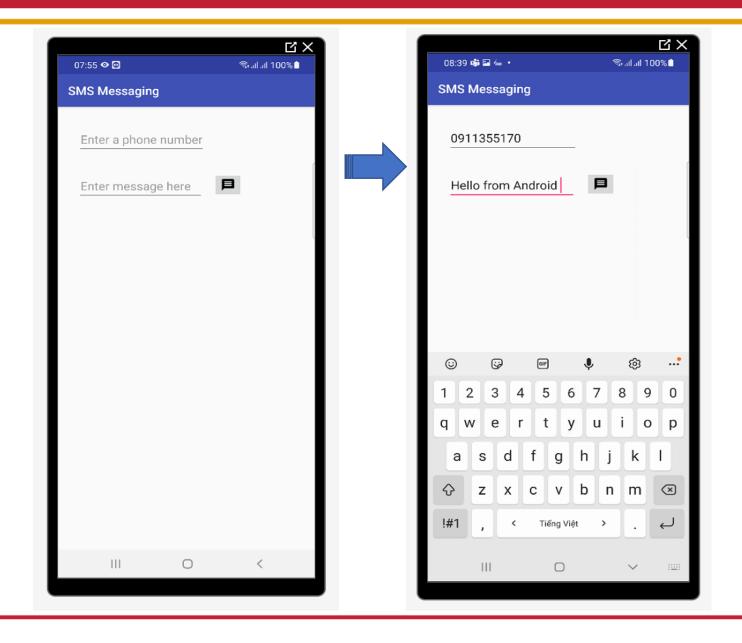






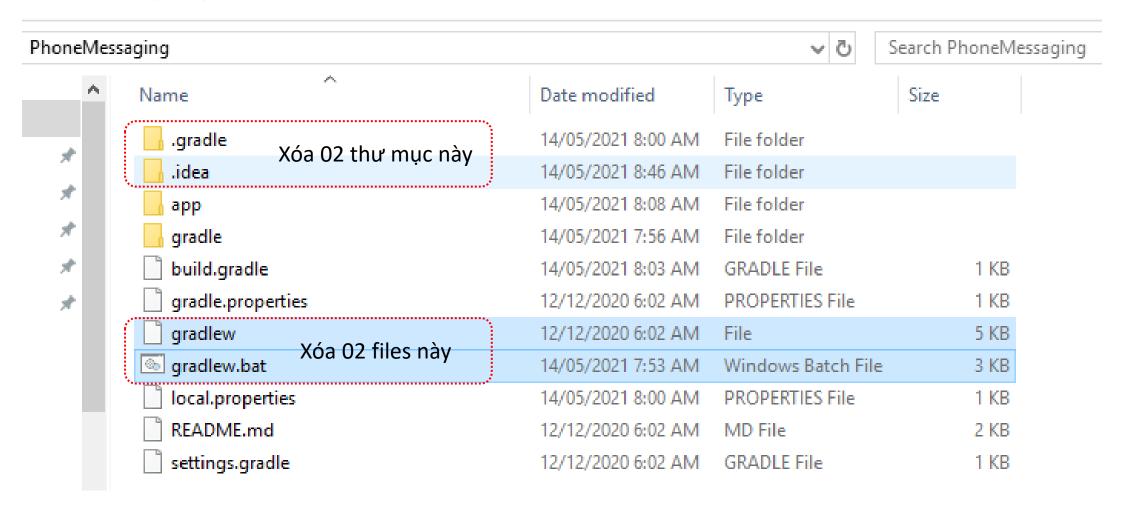






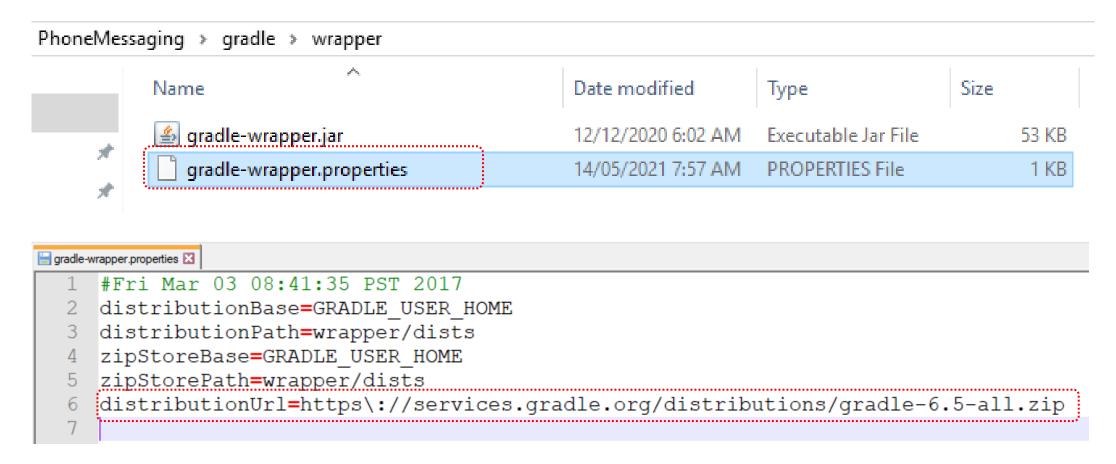


PhoneMessaging Project:: How to open & compile in Android Studio 4.1.3



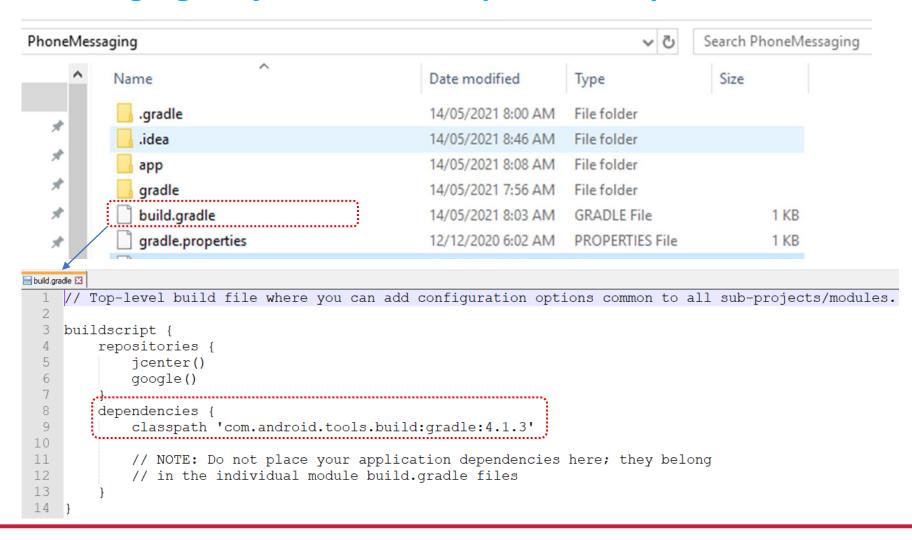


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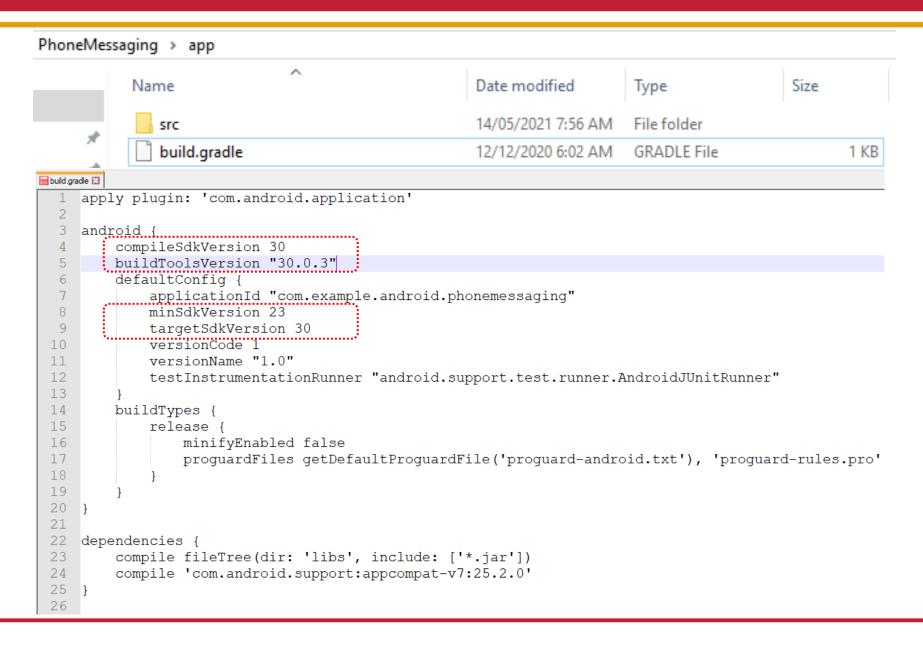




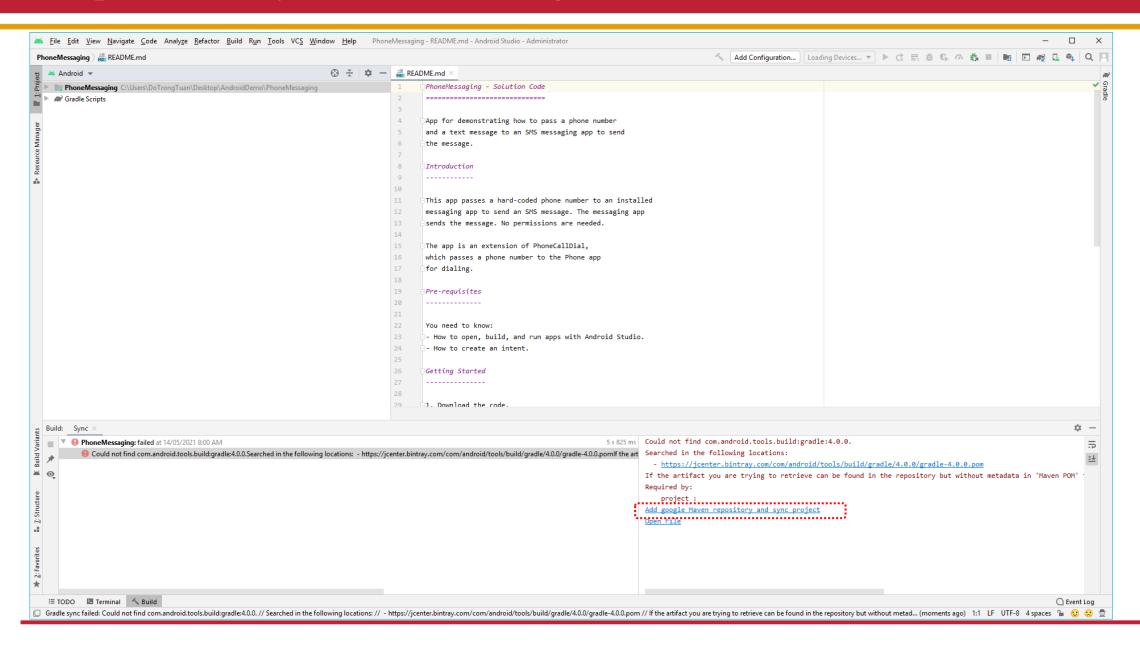
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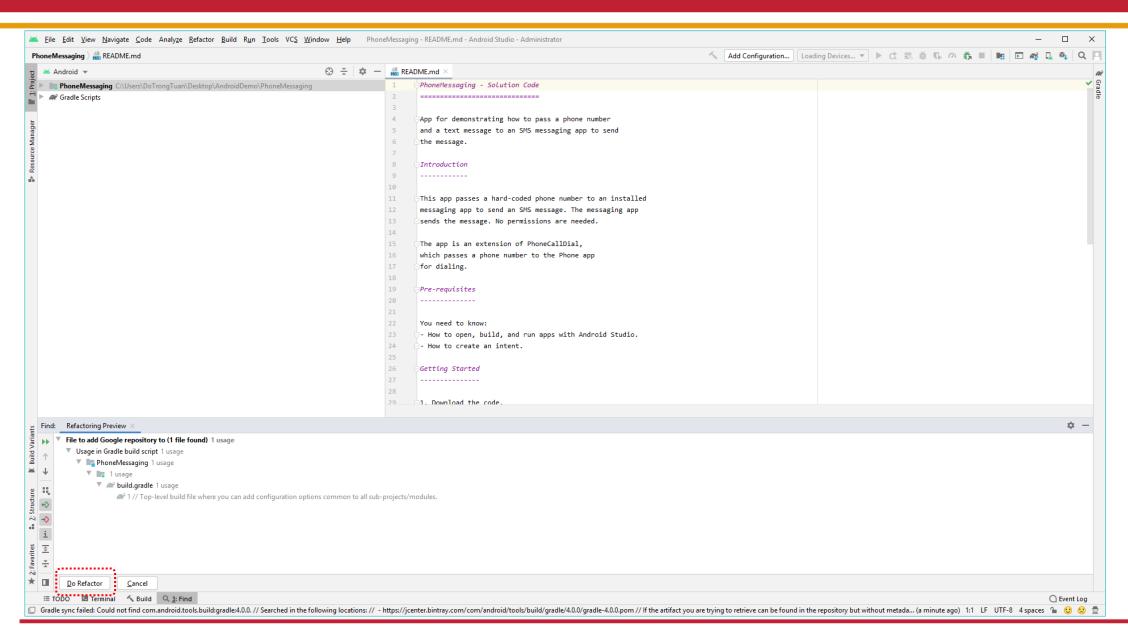




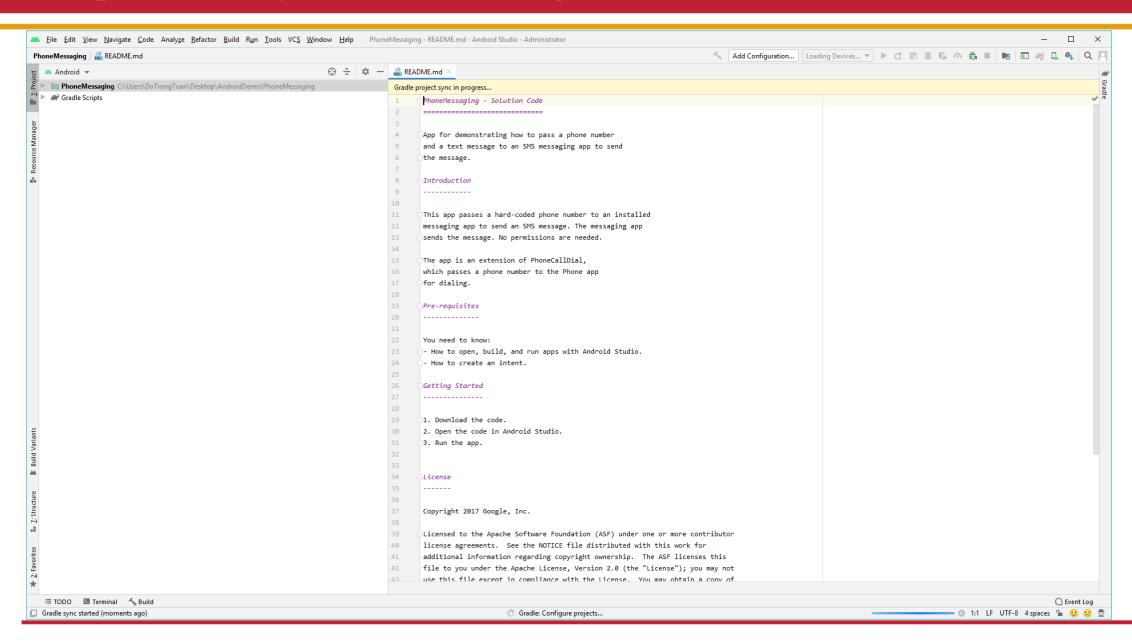




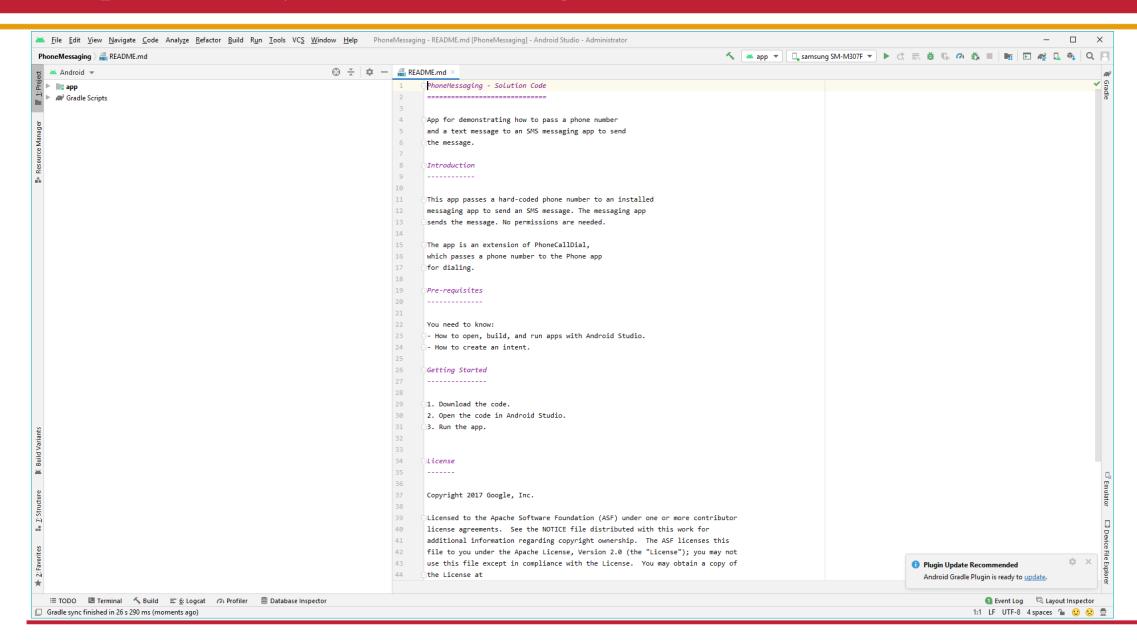




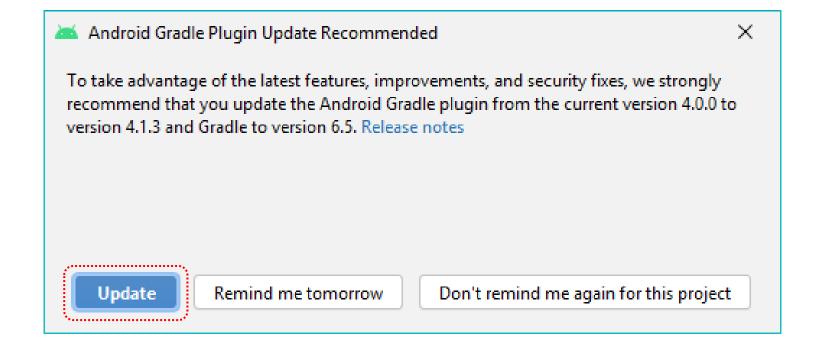














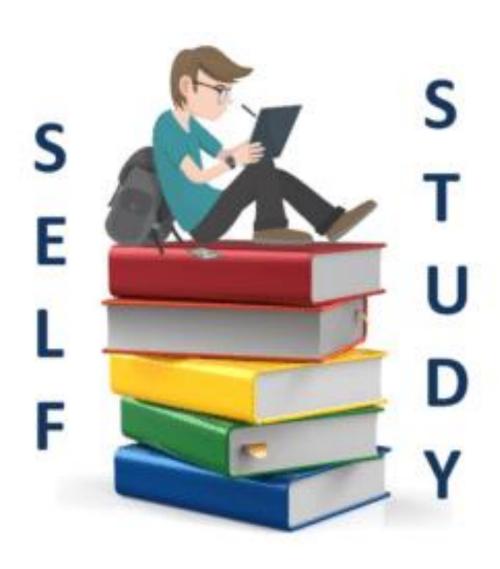
Lập trình với các dịch vụ hệ thống và điều khiển thiết bị

Control external devices

In Android 11 and later, the Quick Access Device Controls feature allows the user to quickly view and control external devices such as lights, thermostats, and cameras from a user affordance within three interactions from a default launcher.

https://developer.android.com/guide/topics/ui/device-control









THANK YOU!





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https://github.com/shishirthedev/sms-verification-api-android

https://stackoverflow.com/questions/848728/how-can-i-read-sms-messages-from-the-device-programmatically-in-android

https://viblo.asia/p/tong-quan-service-trong-android-maGK7M8elj2



