

BAB 2

Android Activities

Mahardeka Tri Ananta
deka.kelas@gmail.com



Outline

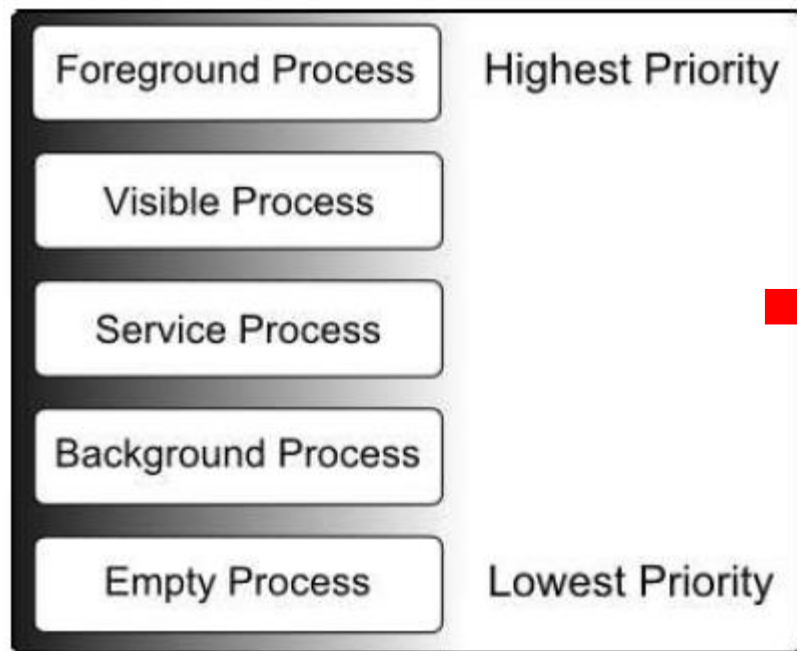
- Activity Lifecycle Overview
- Implementation of Activity Lifecycle Methods

Android Application Lifecycle

- In an ideal case all Android applications started by the user remain in memory, that makes restarting applications faster.
- But in reality the available **memory** on an **Android device** is **limited**.
- To manage these limited resources the Android system is allowed to terminate running processes or recycling Android components.

Courtesy: <http://www.vogella.com/tutorials/AndroidLifeCycle/article.html>

Android Application Lifecycle



LRU Cache



Calling `get()` for an item, moves it to the top of the cache

Courtesy:

1. <http://www.vogella.com/tutorials/AndroidLifeCycle/article.html>
2. Android Studio Development Essentials - Android 6 Edition **page 108**

Android Application Fundamentals

An android application consists of one or more **components** that are defined in the android [manifest.xml](#) file. Here are the four types of app components:

1. **An Activity**
2. A Service
3. A Broadcast Receiver
4. A Content Provider

Courtesy : <https://developer.android.com/guide/components/fundamentals.html>

What is Android Activity?

- A “single screen” with a user interface that’s visible to user
- An activity is a single, standalone module (subclass of **ContextThemeWrapper** Class) of application functionality that usually correlates directly to a single user interface screen and its corresponding functionality.



Login Activity

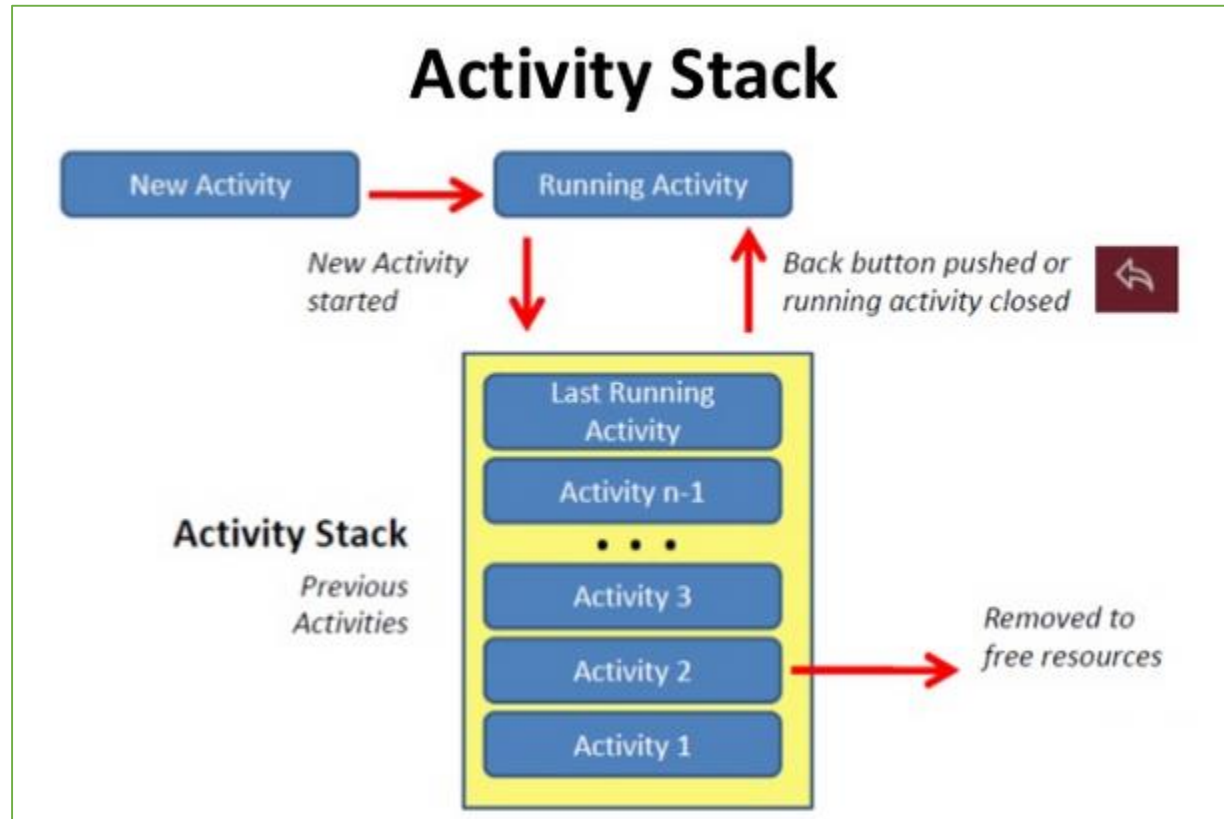


News Feed Activity

www.edureka.co/android-development-certification-course

The Activity Stack

- Managing activities in the system



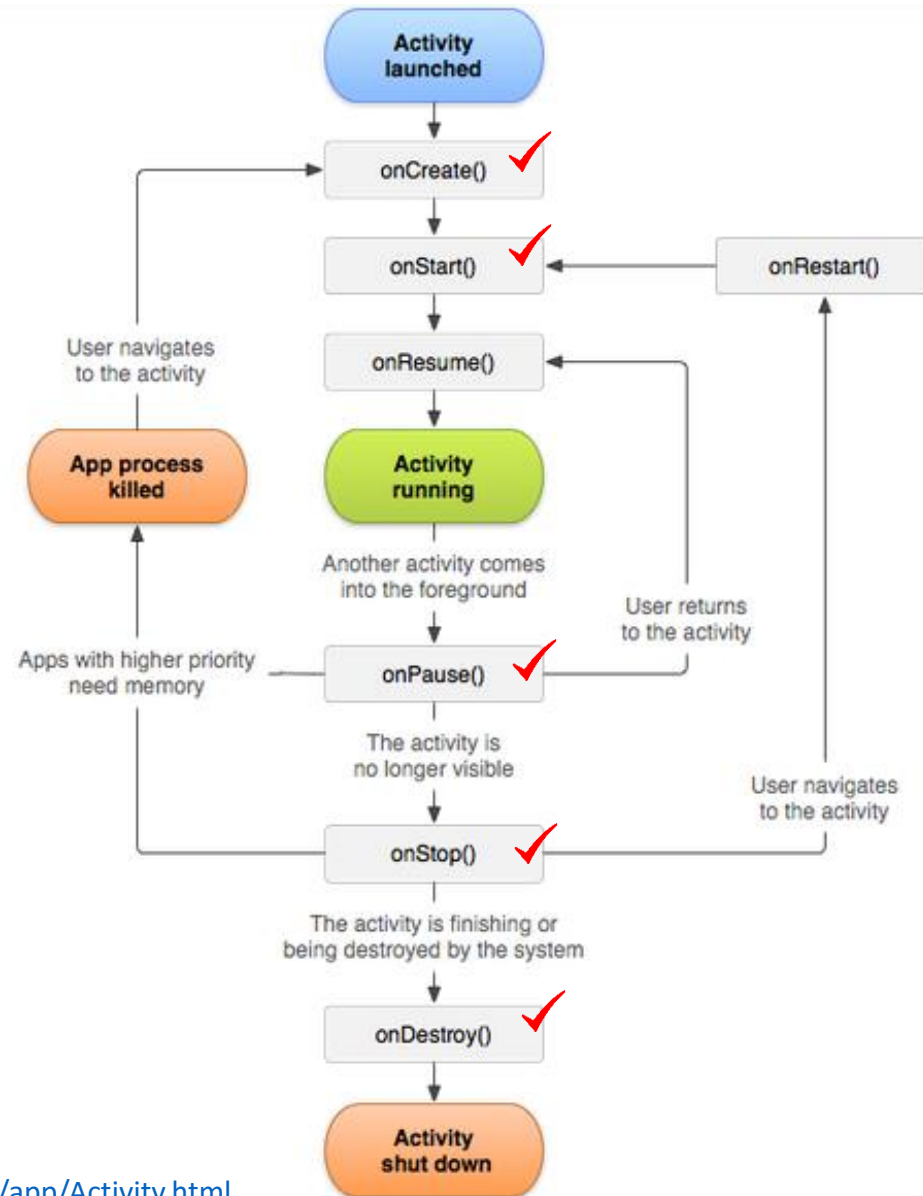
Courtesy: **Delwar Hossain**, Dept of CSE Daffodil International Univ.

The Activity State

States	Description
Active / Running	The activity is at the top of the Activity Stack . Foreground task visible on the device screen
Paused	Activity is still visible but partially obscured , instance is running but might be killed by the system.
Stopped	The activity is currently not visible to the user (in other words it is totally obscured on the device display by other activities).
Killed	The Activity has been terminated by the runtime system in order to free up memory and is no longer present on the Activity Stack

Courtesy: Android Studio Development Essentials - Android 6 Edition [page 110](#)

The Activity Lifecycle



courtesy: <https://developer.android.com/reference/android/app/Activity.html>

Ayo Ngoding Jes.....



Terima Kasih Semoga Bermanfaat

