Fragments In Android

NOTE: MOST OF CONTENT ARE COPIED FROM INTERNET

Fragments

- A <u>Fragment</u> represents a reusable portion of your app's UI.
- A fragment defines and manages its own layout, has its own lifecycle, and can handle its own input events.
- Fragments cannot live on their own--they must be *hosted* by an activity or another fragment.

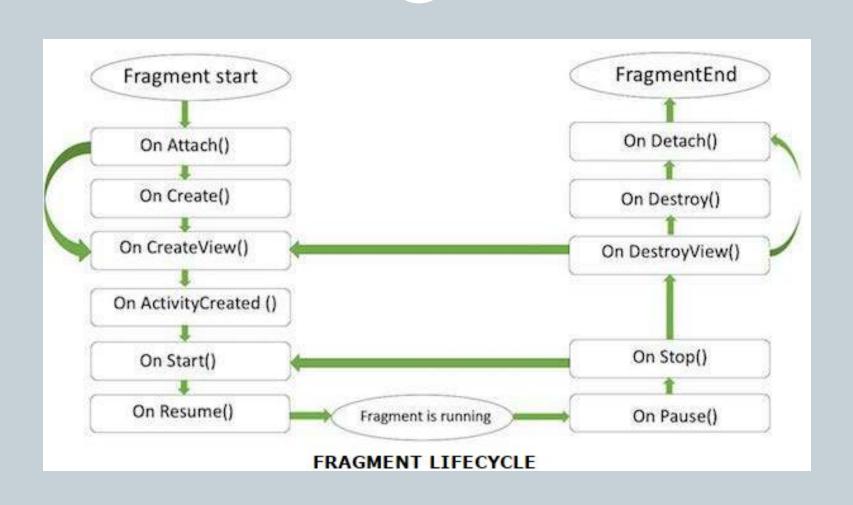
History

- New in Android 3.0 (Honeycomb, API 11)
- Usable in previous version with compatibility library.
- 2011-> IPAD2
- 2011-> Motorola Xoom
- Intended to reuse layouts between tablets and phones

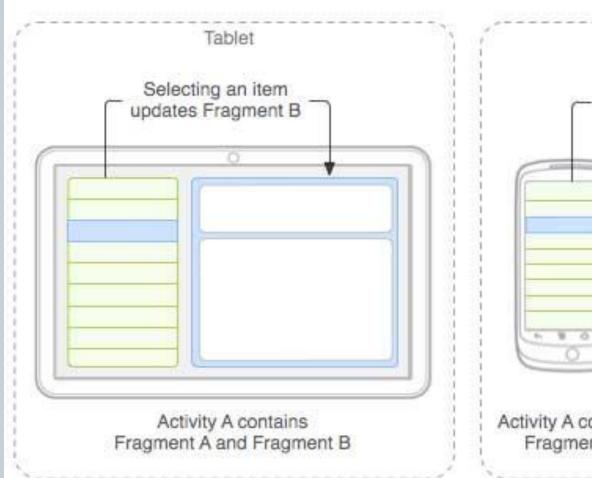
Interaction with Activities

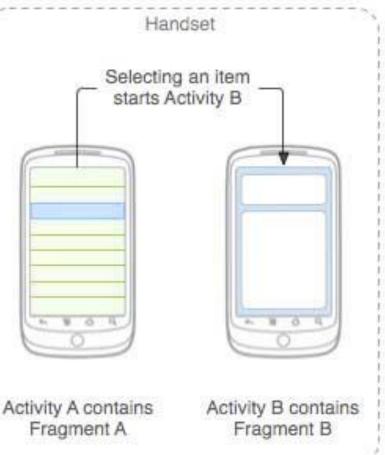
- A fragment is a modular section of an activity, which has its own lifecycle...
- But, a fragment's lifecycle is directly affected by the host activity's lifecycle
- Activity paused: fragments paused
- Activity destroyed: fragments destroyed
- Activity running: fragments can have different states

Life Cycle of Fragment



Application of Fragment





Other useful resources:

- https://developer.android.com/guide/fragments
- https://blog.mindorks.com/android-fragments-and-its-
 - <u>lifecycle#:~:text=A%20fragment%20life%20cycle%2</u> <u>ois,flexible%20UI%20on%20large%20screens</u>.
- https://www.youtube.com/watch?v=-vAI7RSPxOA
- https://www.youtube.com/watch?v=NCaomVCURD M&list=PLfuE3hOAeWhZDH-wHDoBJsJl7PpEWwN8

