Android Activity Lifecycle





Component Lifecycle

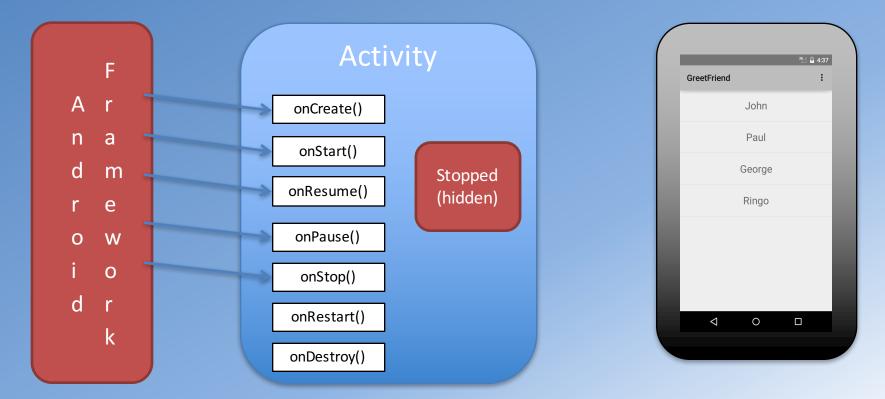
- Component lifecycle
 - From the beginning when Android instantiates a component to respond to intents through to the end when the instance is destroyed
 - In between, the component may sometimes be active or inactive
 - Activities may be visible to the user or invisible

Component Lifecycles

- Activity Lifecycle
 - Three states
 - Resumed, paused and stopped
 - The system can drop a paused or stopped activity from memory either by:
 - asking it to finish (calling its finish() method)
 - simply killing its process.



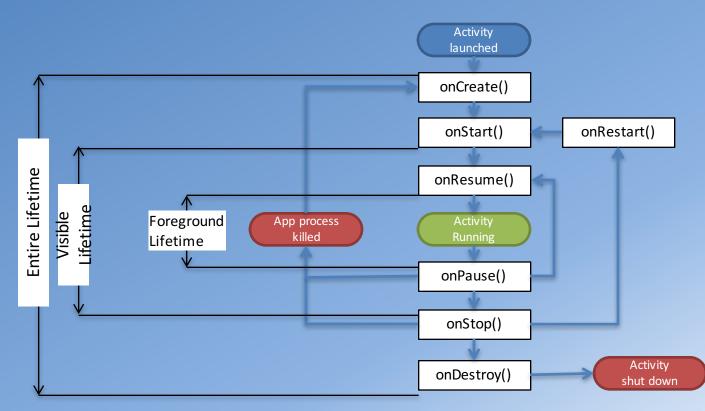
Activity Lifecycle



COMP 107x (Muppala)

Android Activity Lifecycle

Activity Lifecycle



Coordinating Activities

- When one activity starts another, they both experience lifecycle transitions
 - One pauses and may stop, while the other starts up.
- The order of lifecycle callbacks is well defined, particularly when the two activities are in the same process. For example if Activity A starts Activity B:
 - 1. A's onPause() method is called.
 - 2. B's onCreate(), onStart(), and onResume() methods are called in sequence.
 - 3. Then, if A is no longer visible on screen, its onStop() method is called.

Chat Client App

- Off to the next app: Chat Client UI
 - ListView with Custom Adapter
 - Layouts