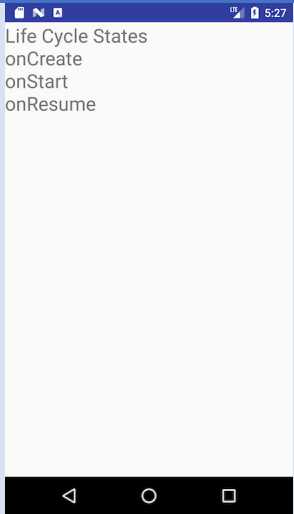
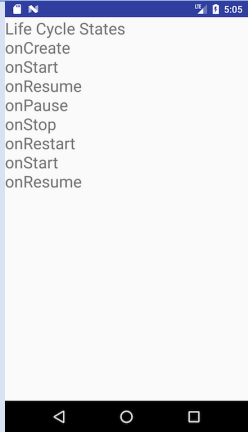


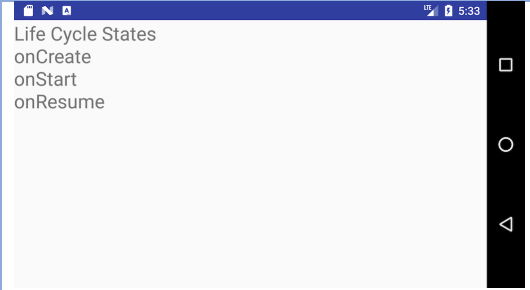
Software Development for Mobile Devices

Submission for Assignment A3.1P

Task 2: Lifecycle events

When app starts in foreground

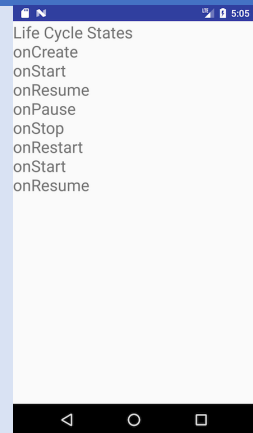
Console log	Screen log
<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume</pre>	
<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop</pre>	<p>The application is on background mode, so users cannot see the log on the screen</p>
<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:28:46.376 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:28:46.377 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:28:46.378 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:28:46.379 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:28:46.380 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:28:46.381 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume</pre>	

<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:28:46.376 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onRestart 08-09 17:28:46.377 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:28:46.378 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:33:47.653 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:33:47.655 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:33:47.656 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onDestroy 08-09 17:33:47.667 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:33:47.667 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:33:47.669 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume</pre>	
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The application enters background mode

Console log	Screen log
<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop</pre>	<p>The application is on background mode, so users cannot see the log on the screen</p>

Reopen the application

Console log	Screen log
<pre>08-09 17:27:20.406 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.407 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.409 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:28:46.376 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onRestart 08-09 17:28:46.377 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:28:46.378 4571-4571/au.edu.swin.sdm.d.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume</pre>	

Change app orientation

Console log	Screen log
<pre>08-09 17:27:20.486 4571-4571/? I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:27:20.487 4571-4571/? I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:27:20.489 4571-4571/? I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:27:33.659 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:27:33.714 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:28:46.376 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onRestart 08-09 17:28:46.377 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:28:46.378 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume 08-09 17:33:47.653 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onPause 08-09 17:33:47.655 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStop 08-09 17:33:47.656 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onDestroy 08-09 17:33:47.667 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onCreate 08-09 17:33:47.667 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onStart 08-09 17:33:47.669 4571-4571/au.edu.swin.sdm.lifecyclejava I/ACTIVITY-CURRENT-STATE: onResume</pre>	

Why some life cycle states are shown only in the Log, but not on screen?

The life cycle states are not displayed on screen because of two cases:

1. The first case is when the app is in background mode. Therefore, we are not able to see the screen at this time though the application invokes `onPause()` and `onStop()`.
2. The second case is when `onDestroy()` is triggered. After calling `onDestroy()`, the activity need to initialize the UI again. So, `onCreate()` is called to setup the UI of the application, thereby it is not able to see the log of `onDestroy()` on the screen.