**CS-639 Mobile Application**

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1. The 5 methods

* OnCreate (): Called when the activity is first created. This is where you should do all of your normal static set up: create views, bind data to lists, etc. This method also provides you with a Bundle containing the activity's previously frozen state, if there was one.
* OnStart (): The Start Activity (Intent) method is used to start a new activity, which will be placed at the top of the activity stack. It takes a single argument, an Intent, which describes the activity to be executed.
* OnRestart (): Called after your activity has been stopped, prior to it being started again. Always followed by OnStart ()
* OnStop (): Called when the activity is no longer visible to the user, because another activity has been resumed and is covering this one. This may happen either because a new activity is being started, an existing one is being brought in front of this one, or this one is being destroyed.
* OnDestroy (): The final call you receive before your activity is destroyed. This can happen either because the activity is finishing (someone called Finish () on it, or because the system is temporarily destroying this instance of the activity to save space.

#### 2) **OnCreateContextMenu** ([ContextMenu](http://developer.android.com/reference/android/view/ContextMenu.html) menu, [View](http://developer.android.com/reference/android/view/View.html) v, [ContextMenu.ContextMenuInfo](http://developer.android.com/reference/android/view/ContextMenu.ContextMenuInfo.html) menuInfo)

Called when a context menu for the view is about to be shown. Unlike [OnCreateOptionsMenu (Menu)](http://developer.android.com/reference/android/app/Activity.html#onCreateOptionsMenu(android.view.Menu)), this will be called every time the context menu is about to be shown and should be populated for the view (or item inside the view for [AdapterView](http://developer.android.com/reference/android/widget/AdapterView.html) subclasses, this can be found in the menuInfo)). In my opinion this method is related to menu in activity class.

3) **ActionBarActivity**

Extends [FragmentActivity](https://developer.android.com/reference/android/support/v4/app/FragmentActivity.html)  
implements [ActionBarDrawerToggle.DelegateProvider](https://developer.android.com/reference/android/support/v4/app/ActionBarDrawerToggle.DelegateProvider.html) [TaskStackBuilder.SupportParentable](https://developer.android.com/reference/android/support/v4/app/TaskStackBuilder.SupportParentable.html)

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| [java.lang.Object](https://developer.android.com/reference/java/lang/Object.html) | | | | | | |
| **↳** | [android.content.Context](https://developer.android.com/reference/android/content/Context.html) | | | | | |
|  | **↳** | [android.content.ContextWrapper](https://developer.android.com/reference/android/content/ContextWrapper.html) | | | | |
|  |  | **↳** | [android.view.ContextThemeWrapper](https://developer.android.com/reference/android/view/ContextThemeWrapper.html) | | | |
|  |  |  | **↳** | [android.app.Activity](https://developer.android.com/reference/android/app/Activity.html) | | |
|  |  |  |  | **↳** | [android.support.v4.app.FragmentActivity](https://developer.android.com/reference/android/support/v4/app/FragmentActivity.html) | |
|  |  |  |  |  | **↳** | android.support.v7.app.ActionBarActivity |

However, ActionBarActivity extend FragmentActivity that is related to Activity Class. We can see that