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**CS639: Mobile Application Development**

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1. Cite 5 methods of the Activity class.

* 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.

Always followed by onStart ().

* On Restart () Called after your activity has been stopped, prior to it being started again. Always followed by onStart()
* OnStart () Called when the activity is becoming visible to the user. Followed by onResume () if the activity comes to the foreground, or onStop () if it becomes hidden.
* OnPause () Called when the system is about to start resuming a previous activity. This is typically used to commit unsaved changes to persistent data, stop animations and other things that may be consuming CPU, etc. Implementations of this method must be very quick because the next activity will not be resumed until this method returns. Followed by either onResume () if the activity returns back to the front, or onStop () if it becomes invisible to the user.
* 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.

1. What methods relate to the menu in the Activity class?

Public Methods:

[closeContextMenu](http://developer.android.com/reference/android/app/Activity.html#closeContextMenu%28%29)()

[closeOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#closeOptionsMenu%28%29)()

[getMenuInflater](http://developer.android.com/reference/android/app/Activity.html#getMenuInflater%28%29)()

[invalidateOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#invalidateOptionsMenu%28%29)()

[onContextItemSelected](http://developer.android.com/reference/android/app/Activity.html#onContextItemSelected%28android.view.MenuItem%29)([MenuItem](http://developer.android.com/reference/android/view/MenuItem.html) item)

[onContextMenuClosed](http://developer.android.com/reference/android/app/Activity.html#onContextMenuClosed%28android.view.Menu%29)([Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onCreateContextMenu](http://developer.android.com/reference/android/app/Activity.html#onCreateContextMenu%28android.view.ContextMenu,%20android.view.View,%20android.view.ContextMenu.ContextMenuInfo%29)([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)

[onCreateOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#onCreateOptionsMenu%28android.view.Menu%29)([Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onCreatePanelMenu](http://developer.android.com/reference/android/app/Activity.html#onCreatePanelMenu%28int,%20android.view.Menu%29)(int featureId, [Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onMenuItemSelected](http://developer.android.com/reference/android/app/Activity.html#onMenuItemSelected%28int,%20android.view.MenuItem%29)(int featureId, [MenuItem](http://developer.android.com/reference/android/view/MenuItem.html) item)

[onMenuOpened](http://developer.android.com/reference/android/app/Activity.html#onMenuOpened%28int,%20android.view.Menu%29)(int featureId, [Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onOptionsItemSelected](http://developer.android.com/reference/android/app/Activity.html#onOptionsItemSelected%28android.view.MenuItem%29)([MenuItem](http://developer.android.com/reference/android/view/MenuItem.html) item)

[onOptionsMenuClosed](http://developer.android.com/reference/android/app/Activity.html#onOptionsMenuClosed%28android.view.Menu%29)([Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onPanelClosed](http://developer.android.com/reference/android/app/Activity.html#onPanelClosed%28int,%20android.view.Menu%29)(int featureId, [Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[onPrepareOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#onPrepareOptionsMenu%28android.view.Menu%29)([Menu](http://developer.android.com/reference/android/view/Menu.html) menu)

[openOptionsMenu](http://developer.android.com/reference/android/app/Activity.html#openOptionsMenu%28%29)()

[registerForContextMenu](http://developer.android.com/reference/android/app/Activity.html#registerForContextMenu%28android.view.View%29)([View](http://developer.android.com/reference/android/view/View.html) view)

**Inherted methods:**

android.view.View.OnCreateContextMenuListener

1. How do the classes Activity and ActionBarActivity relate to each other’s

Adding an Action Bar to the activity when running on API level 7 or higher by extending this class for your activity and setting the activity theme to Theme.AppCompat or a similar theme.

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| * ‘Android.app.Activity’ Is the super class of ‘android.support.v4.app.FragmentActivity’ * To implement an activity that includes an action bar, you should instead use the ActionBarActivity class, which is a subclass of this one, so allow you to use Fragment APIs on API level 7 and higher. * When using the <fragment> tag, this implementation cannot use the parent view's ID as the new fragment's ID. You must explicitly specify an ID (or tag) in the <fragment>. * Prior to Honeycomb (3.0) the activity state was saved before pausing. An exception will be thrown when tried to change the state of fragment before pausing…   **ActionBarActivity**   * Base class for activities that use the support library action bar features. You can add an Action Bar to your activity when running on API level 7 or higher by extending this class for your activity and setting the activity theme to Theme.AppCompat or a similar theme. |  |
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