

Study

# Week 3 - ACTIVITIES - LIFECYCLES AND INSTANCE STATE

# Terms in this set (16)

List the callbacks (lifecycle and other) in sequence that occur for a reorientation event

onPause, onSaveInstanceState, onStop, onDestroy, onCreate, onStart, onRestoreInstanceState, onResume

List the callbacks (lifecycle and other) in sequence that occur

onPause, onStop, onDestroy

for a back even Assignment Project Exam Help

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What is the difference between a) and b) up to and including destroy?

With reorientation there is there is an execution of onSaveInstanceState, which doesn't occur when the user hits the back button

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When does an inherited callback's super execute if its: a) Not overridden?

the latest "version" of the method is called directly rather than going through the method overriding it (I think this is badly worded but I'll leave it here for now)

When does an inherited callback's super execute if its: Overridden?

When the method overriding the previous implementation of it decides to call the previous implementation (in a constructor, this happens at the top but here it is most likely to happen at the bottom if the callback has not handled the event or further handling is required). On Save Instance State and onRestoreInstanceState are both callback

Assignment Petrojectte Examy Helps.

With respect to saving viewttps://tutorestoame and state and instance variable consequences of not overriding and overriding these methods (3 possible scenarios)

onRestoreInstanceState, not calling the super state of an Activity sub class we Chat implementation with the wind the control of all Views with state (Hierarchy) of all Views with implementation will have the consequence of not IDs. (should always call super method in order to save and restore view hierarchy) This isn't necessarily a dangerous consequence since you could implement this on your own anyways

What are SharedPreferences files for?

Used for saving key value pairs into persistent memory, so that it can be recovered later on even if we go through a back event.

- Used to store information in a Preferences file that can be shared across activities (this file is saved on device storage and is therefore persistent, it's saved as .xml

Used to store relatively small key value pairs

Study

Should SharedPreferences be used directly to save app settings? If not what should be used?

- SharedPreferences have been created for the purpose of saving settings and are generally good practice, however, you can also save the data into a text file or into a database depending on what the information is used for (SharedPreferences is generally better for settings whilst others are better for data, hence the name "SharedPreferences")

c) What's the difference between what is Afgrence the return values of getPreferences(...) and getSharedPreferences(...)

getSharedPreferences(): Use this if you need multiple preferences files identified by name, which you specify with the first parameter.

between what is Afgrence the strain of the s

- getPreferences(...): Use this if you need only one the preferences file for your Activity. Because this will be the only preferences file for your Activity, you don't supply a name.

WeChatextresstute presences is activity dependent

r the following statement: 
Score =

ef.getInt(getString(R.string.saved\_high\_score)

s someVal?

It is a key value pair. The R.String.... is the key and the someVal is the value. (Not right)

- someVal is the default value to return if null ore),
  (nothing has been saved with that key)
  - If saved\_high\_score is empty or hasn't been assigned a value, the someVal is the default value that will be returned.

Study

	er the following statement: -	
	sScore = ef.getInt(getString(R.string.saved_high_s; ; does getString do exactly?	- Retrieve the String that has been saved under that name in the strings.xml resource file score), - Inside the strings.xml resource file there is a key instantiated (saved_high_score), this key has to be retrieved and the getString method is used to retrieve this value.
		getInt retrieves the int value from the preferences,
		and getString is nested in getString.
		- getString gets the String value from the strings.xml
•	the following statement: ASSignme	nt which in this case is being used as the key to which the value expected is supposedly bound (since it
	Score =	may return null if the value saved is null or nothing
ef.getInt(getString(R.string.sattings; sottont of the syde of the theory I used the		that key, I used the word
	;	"supposedly")
	e does getString's return value play as	objects stored in resources are saved under an ID at the String of the same of
	er of the getInt method?	identifies the name of the string resource saved
		under the ID value retrieved by getInt().
		- Basically the getString() method is used to identify
		which integer value to return from the getInt().

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Why is there a difference between the callback of a back event vs a reorientation event

is done with the activity and its current data, so an onSaveInstanceState callback is called to allow coders to save the instance state data in a Bundle object (for non-view state data, it can be coded to perform manual save). In this method, Android can also call super to save view-state data when the method is overridden.

#### Back:

Android DOES take this as a sign that the user is done with the activity and its current data, so no opportunity to save any kind of data is provided

# Assignment Project

Activity enters the Created state (public void onCreate(Bundle saveInstanceState)

https://turboued&mco.landplication startup logic that should happen only once for the entire life of the

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- The Activity has its view created (setContentView)

- This method receives the parameter saveInstanceState, which is a Bundle object containing the activities previously saved state. If the activity has never existed before, the value of the Bundle object is null

Describe 4 tasks that code in an Activity's onCreate callback usually does.

> super.onCreate: here we are calling the super of onCreate to complete the creation of activity like the view hierarchy.

- saveInstanceState: this recovers the instance state
- setContentView: this defines the user interface that will be displayed to the user upon onCreate which is defined in the XML layout file.
- mTextView: initializes the member TextView so that we can manipulate it later

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Name the method used to accomplish the task where possible

setContentView(R.layout.main))

- 3. restores from the bundle
- 4. recovers the saved instance state. (usually via an if(savedInstanceState != null){

b) Should they be used directly to save app settings?

a) If not what should be used?

Preference API's use SharedPreferences as their implementation to save app settings.

- SharedPreferences have been created for the purpose of saving settings and are generally good practice, however, you can also save the data into a text file or into a database depending on what the

Assignment information is used for (Shared Preferences is generally better for settings whilst others are better for data, hence the name "Shared Preferences")

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