

FIT2081

Terms in this set (54)

List two differences between activities and services in Android applications	Activities are a single, standalone module of an application which correlates to a single use interface screen. Whereas, a service are the processes that run in the background and don't have a user interface
What is an content resolver?	Content Resolver is the single instance in an application that provides access to your content providers for the users
What is an content provider?	The content provider manages and implements a set of shared app data
List three components that are activated by Intents	Activities, Services and Broadcast Receivers
Why does an app compiled against API level 27 on a device running pie work?	Because pie runs with an API level of 28 so it can run apps compiled with previous versions (forward-compatible)
Can the app be fixed without changing the API level of the app and the device?	Not necessarily but it can be fixed by changing the API level of the app but it will affect all versions of Android. Should use support library

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multiple times for different languages?	the ability to translate the strings to other languages in the XML
What will happen to the back stack if the user presses the back button?	The current activity will be removed from the top of the stack resulting in the activity being destroyed and the previous activity is restored and back on the screen
What is the difference between task and activity in Android Applications?	A task is a collection of activities that users interact with when performing a certain job. Whereas, an activity is an single, standalone module of an application which correlates to a single use interface
List the callbacks in sequence that occur for a reorientation event	onPause, onSaveInstanceState, onStop, onDestroy, onCreate, onStart, onRestoreInstanceState and onResume
List the callbacks in sequence that occur when the code executes the finish() method	onPause, onStop, onDestroy
Whats the difference between the two callbacks (reorientation callback and finish callback) ?	When an mobile is reorientated, the onSaveInstanceState callback is triggered to save the instance state data whereas the finish() method doesn't save the instance data
What is the effect of calling super() in Lifecycle callbacks?	It allows us to override lifecycle callbacks with a call to their super().

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super() in Lifecycle callback?	methods
What is the difference between getPreferences() and getSharedPreferences()?	getPreferences() is used when there is only one preference file for the activity. getSharedPreferences() is used when you need multiple preference files
When and how is the API level initially set on an emulator?	When the emulator device is created/set up initially in the AVD manager
Why is the measurement redundant?	The constraint is redundant because it is set to match the constraint horizontally or vertically so it will fill the available area.
What is the difference between styles and themes?	Attributes assigned to a view via style will only apply to that view. Whereas, attributes assigned it via a theme will apply to that view along with all its children.
What is the main difference between guidelines and barriers in UI design?	Barrier's position is flexible and is always based on size of UI elements. Whereas, a guideline's position is fixed
Briefly describe two ways you can link a button to its onClick() handler	You can either manually code the onClick method to perform an certain method or you can implement the method by adding the method manually in the onClick settings in the layout settings
What is the purpose of super.OnBackPressed()?	The purpose of super.OnBackPressed() is to override the onBackPressed() method and display the message when the back button is pressed.

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click?	another to another view
What is the difference between onOptionsItemSelected and onNavigationItemSelected?	onNavigationItemSelected is called when an item in the navigation menu is selected. Whereas, onOptionsItemSelected is used for the callback of the options menu
RecyclerViewAdapter needs to have a subclass of RecyclerView.ViewHolder. Why?	because it describes the item view
Briefly describe the control flow (relation) between onCreateViewHolder and onBindViewHolder methods.	both methods are used to make the list efficient and the user can scroll through the list smoothly
Briefly explain two differences between Fragments and Activities.	<ul style="list-style-type: none">- Fragments can only be used in an activity. While activity can used on it's own.- An Activity may contain 0 or multiple number of fragments based on the screen size. A fragment can be reused in multiple activities.
What does the .invalidate method do?	find the best time and schedule for the next UI thread to execute. It queues the drawing on the thread so it can be carried out when the thread is not busy.

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onDownGrade) that cause these two callbacks to get invoked.	an application is updated on an device.
List the CRUD operations that need a ContentValues object as input to work.	Create, Retrieve, Update and Delete
What is the relation between onCreateViewHolder and onBindViewHolder?	onBindViewHolder grabs the viewHolder that is specified in and onCreateViewHolder is used to set the itemTitle, itemDetail and itemImage.
What is the main purpose of implementing the content provider in an Android application?	To implement a mechanism for the sharing of data between applications
resolver.insert(param1, param2); What is the role datatype of param1 and param2?	Param1 - Url, role is the address of the data table that is being accessed Param2 - content values, role is to be the values for the row that is being added into the database
Explain the statement : "CursorLoader's load is asynchronous"	means the loaders make it easy to load data in an activity or fragment in a asynchronous manner
How does a query method serve multiple URIs?	The query() method helps to pack the arguments into a Bundle, and can be called from multiple threads

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"AsyncTask is a generic class?"	data types
What should you use to transform a LatLng point into a street address?	use the instance of the Geocoder's getLocation method
Explain the three input data types to the AsyncTask	<p>Params, the type of the parameters inputted to the task when it is executed, in our case they are String.</p> <p>Progress, the progress units published while it is performing the background computations, in this instance it is Integer.</p> <p>Result, the datatype of result of the computation, for us it is Bitmap.</p>
How can an input parameter be accessed in doInBackground?	by using the string array called params.
When and on what thread does doInBackground execute?	The doInBackground executes after the OnPreExecute has been executed and it executes in the background thread.
When and on what thread does onPostExecute execute?	the onPostExecute runs in the foreground after the doInBackground method is finished executing.
When and on what thread does onProgressUpdate execute?	The onProgressUpdate executes when you call publishProgress and is ran from doInBackground
What is event.getRawX() and show an example	event.getRawX() will return absolute coordinates and will be relative to the screen. An example would be event.getRawX() will give you the coordinates to a spot on the screen.

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an example	the coordinate to a spot that is relative to just the View but not the whole screen
What is an convenience class?	A class that implements all of the methods of one or more interfaces that are empty.
Explain the difference between <code>getAction()</code> and <code>getActionMasked()</code>	<code>getAction()</code> returns an event and a pointer id information. Whereas, <code>getActionMasked()</code> returns just an event (i.e., up, down, move) information.
What is the difference between <code>onSingleTapUp</code> and <code>onSingleTapConfirmed</code> callbacks?	<code>onSingleTapConfirmed</code> is executed when tap occurs. Whereas, <code>onSingleTapUp</code> is notified when a tap occurs with the up <code>MotionEvent</code> that triggered it.
What is the difference between <code>onDoubleTap</code> and <code>onDoubleTapEvent</code> callbacks?	<code>onDoubleTapEvent</code> is notified when a double-tap occurs. Whereas, <code>onDoubleTap</code> is notified when an event within a double-tap gesture occurs
What problem does a convenience class solve?	Resolves the problems that occurs with calling anonymous class
What's special about a convenience class for a listener interface?	returns false
What is the benefit of Instant Run?	reduces the time it takes to update your APK with code and resource changes.

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Describe three scenarios where Instant Run works and one where it doesn't

Instant Run pushes the changes without any restart.

Warm swap: change or remove an existing resource
Instant Run pushes the changes and the activity restarts.

Cold swap: structural code changes
Instant Run pushes the changes and the whole app restarts

No swap: change the app manifest or change resources referenced by the app manifest or change an Android system UI element
Instant Run doesn't run and the app has to be completely rebuilt and redeployed to the emulator or device.

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How does ProGuard protect the source codes of Android Application?

ProGuard manipulates Java the way you tell it with your configuration files and the rules they contain.

What are the consequences if the private key of an app is lost but not compromised (i.e. no one else acquires it)?

The existing app on Google Play App Store can't be updated in the future.

What are the consequences if the private key of one of your apps becomes compromised without your knowledge (i.e. someone else acquires it)?

You authoring identity and the trust of the user can be compromised. They could sign and distribute apps that maliciously replace your authentic apps or corrupt them.