

What is Android?

Android is a stack of software for mobile devices which includes an Operating System, middleware and some key applications. The application executes within its own process and its own instance of Dalvik Virtual Machine.

Android Application component.

Android Architecture

Describe Android application Architecture? What is An Activity?

Activity performs actions on the screen. If you want to do any operations, we can do with activity

What is the APK format?

The Android packaging key is compressed with classes, UI's, supportive assets and manifest. All files are compressed to a single file is called APK.

What is An Intent?

It is connected to either the external world of application or internal world of application ,Such as, opening a pdf is an intent and connect to the web browser.etc.

What is an explicit Intent?

Android Explicit intent specifies the component to be invoked from activity. In other words, we can call another activity in android by explicit intent.

What is an implicit Intent?

Implicit Intent doesn't specify the component. In such case, intent provides information of available components provided by the system that is to be invoked.

What is An android manifest file?

Every application must have an AndroidManifest.xml file (with precisely that name) in its root directory. The manifest file presents essential information about your app to the Android system, information the system must have before it can run any of the app's code.

What language does android support to develop an application?

Android applications has written using the java(Android SDK) and C/C++(Android NDK).

What do ADT stands for?

ADT stands for Android development tool, This is useful to develop the applications and test the applications.

What are the tools are placed in An Android SDK?

Android SDK collaborated with Android Emulator,

DDMS(Dalvik Debug Monitoring Services),

AAPT(Android Asset Packaging tool) and

ADB(Android debug bridge)

What is ViewGroup in android?

View group is a collection of views and other child views, it is an invisible part and the base class for layouts.

What is a service in android?

The Service is like as an activity to do background functionalities without UI interaction.

What is a content provider in android?

A content provider component supplies data from one application to others on request. Such requests are handled by the methods of the ContentResolver class. A content provider can use different ways to store its data and the data can be stored in a database, in files, or even over a network.

What is Broadcast Receivers?

Broadcast Receivers simply respond to broadcast messages from other applications or from the system itself.

The two important steps to make BroadcastReceiver works for the system broadcasted intents –

- Creating the Broadcast Receiver.
- Registering Broadcast Receiver

What are the notifications available in android?

Toast Notification – It will show a pop up message on the surface of the window

Status Bar Notification – It will show notifications on status bar

Dialogue Notification – It is an activity related notification.

What is container in android?

The container holds objects, widgets, labels, fields, icons, buttons etc.

What is ADB in android?**ADB – Android Debug Bridge**

It acts as bridge between emulator and IDE, it executes remote shell commands to run applications on an emulator

What is ANR in android?

ANR stands for application is not responding, basically it is a dialog box that appears when the application is not responding.

What is shared preferences in android?

Shared preferences are the simplest mechanism to store the data in XML documents.

Where layouts are placed in android?

In The Layout folder, layouts are placed as XML files

How many dialog boxes do support in android?

AlertDialog, ProgressDialog, DatePickerDialog, and TimePickerDialog

What is the order of dialog-box in android?

Positive, Neutral, Negative.

What are the different storages available in android?

Shared Preferences, Internal Storage, External Storage, SQLite Databases and Network Connection

What is fragment in android?

Fragment is a piece of activity, if you want to do turn your application 360 degrees, you can do this by fragment.

What folders are impotent in android project?

AndroidManifest.xml

build.xml

bin/

src/

res/

assets/

What are application Widgets in android?

App Widgets are miniature application views that can embedded in other applications (such as the Home screen) and receive periodic updates. These views has referred to as Widgets in the user interface, and you can publish one with an App Widget provider.

How do you find any view element into your program?

Using with findViewById we can find view element.

What is drawable folder in android?

A compiled visual resource that can used as a backgrounds, icons, screen etc.

Explain AndroidManifest.xml file in detail.

The AndroidManifest.xml file contains the following information about the application:

- It contains the package name of the application.
- The version code of the application is 1.This value is used to identify the version number of your application.
- The version name of the application is 1.0

- The android: minSdkVersion attribute of the element defines the minimum version of the OS on which the application will run.
- ic_launcher.png is the default image that located in the drawable folders.
- app_name defines the name of application and available in the strings.xml file.
- It also contains the information about the activity. Its name is same as the application name.

What are the advantages of having an emulator within the Android environment?

- The emulator allows the developers to work around an interface which acts as if it were an actual mobile device.
- They can write, test and debug the code.
- They are safe for testing the code in early design phase