

Assignment - 01

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Subject - Android

Batch - C

Q.1.) Write a note on Android Architecture.

Ans Android architecture contains different number of components to support any device's needs. Android Software contains an open-source Linux kernel having a collection of numbers of C/C++ libraries which are exposed through an application framework services.

* The main components of Android Architecture are following —

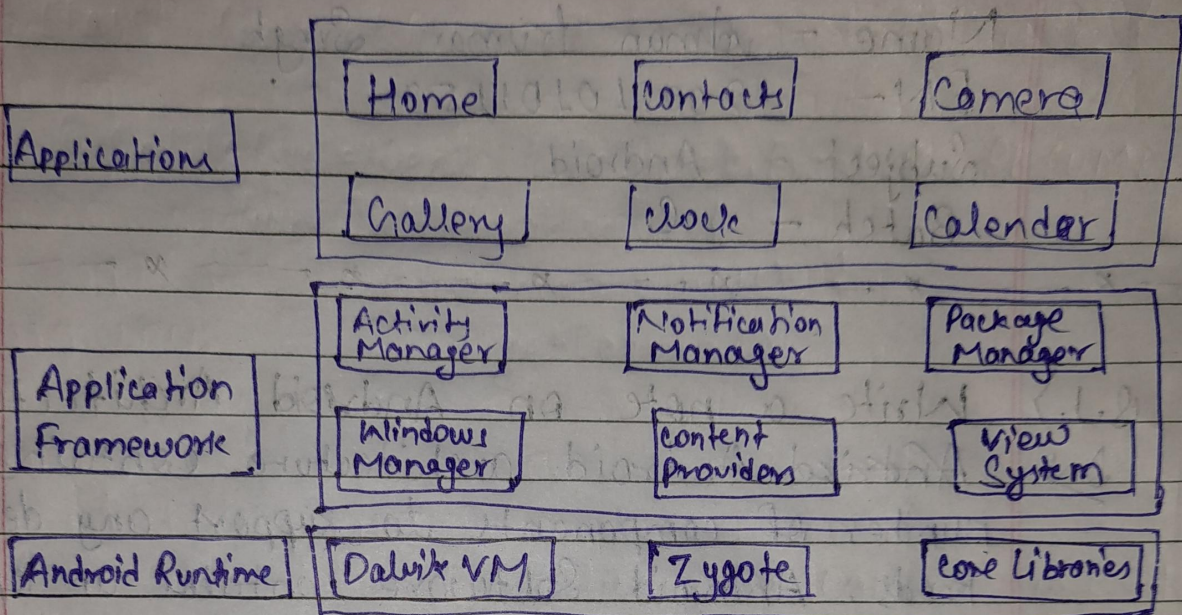
→ Applications

→ Application Framework

→ Android Runtime

→ Platform Libraries

→ Linux Kernel



Q-2.) Write a short note on anatomy of an android application.

Ans An Android app is a software application running on the Android platform. Because the Android platform is built for mobile device, a typical Android app is designed for a smartphone or a tablet PC running on the Android OS. Although an android app can be made available by developers through their websites, most Android apps are uploaded and published on the Android Market.

Q.3.) Write a note on Android Terminology.

Ans

Android is an open-source operating system used to develop an application for mobile services. It is a linux based OS. Initially, it was invented by 'open alliance handset' and in 2007 it was occupied by google. The source code published by google. The source apache license version 2.0. Android Smartphones are used by millions of people world wide.

Q.4.) Write note on activity life cycle. Explain it with program.

Ans

The LifeCycle callback methods, you can declare how your activity behaves when the user leaves and re-enters the activity. For example, if you are building a streaming video player, you might play the video and terminate the network connection when the user returns, you can reconnect to the network and allow for the user.

class CameraComponent : LifecycleObserver {

@OnLifecycleEvent(Lifecycle.Event.ON_RESUME)

fun Initialization() {

if (camera == null) {

getCamera()

The code above initializes the camera and the the LifecycleObserver receives the ON-RESUME event. In multi-window mode, however your activity may be fully visible even when it is in the Paused State.

Q.5) Write a note on Intent.

Ans An intent is to perform an action on the screen. It is mostly used to start activity, send broadcast receiver, start services and ~~send~~ send message between two activities. There are two intents available in android as implicit intents and explicit intents.

Android intent is the message that is passed between components such as activities, content providers, broadcast receivers services etc.

It is generally used with `startActivity()` methods to invoke activity.

(Q-6) What is use of Android manifest file?
Also explain its common settings.

Ans

Among many other things the manifest file is required to declare the following —

- * The components of the app, which include all activities, services, broadcast receivers, and content providers. Each component must define basic properties such as name of its Kotlin or Java class.
- * The permission that the app needs in order to access protected part of the system or other apps. It also declares any permissions that other apps must have if they want to access content from this app.