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Android Notes

DEV. of ANDROID Application

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AN Development of ANDROID Application

ANDROID :-

- # LINUX Based Operating System
- # Open Source
- # FOR:- Smartphone, Tablet, Smart T.V.
- # Android was developed by Open Handset Alliance which Led by Google
- # The first Beta Version of Android : [SDK]-Software Development Kit [SDK] was released by Google in 2008
- # The first Commercial Version :- Android 1.0 was released in September , 2008
- # ON 27 June, 2012 Google Announced the Next Android version 4.1 [Jelly Bean]
- # Every New Version of Android Consist of :-
 - Incremental Update
 - Primary Aim of Improving the User Interface
 - Improved Functionality
 - best Performance

BENEFIT

- 1 Open Source -
 - Codes are free for Every Developer
 - It Consist of multiple open-Source library
 - having Good Support by the Community
- 2 Negligible / zero Dev. Cost - To dev. An Android application we Required SDK, JDK & Eclipse IDE which are Free to download
 - and also Just Cost \$ 25 to Pulic your Android App on Android Market
- 3 Multi Platform Support
 - Wide Range of Hardware powered by Android
 - Smartphones - Tablets - T.V.
 - Android App Can also work on Window, Mac etc.
- 4 Multi Carrier Support -
Worldwide a large number of telecom Carrier Mobility are Supporting Android powered phone
- 5 UI - USER INTERFACE -
User Interface is an medium by which User Can Interact with the Application
 - It make application very Easy to Understand

Multi-Tasking Support

- User Can perform Many Task at Same time and Can Switch Application one to another

Multi-Touch - Android Support Multi-Touch

Multi-Language - It Support Both Single direction & bi-direction
- on Text

Resizable widgets - It support Expansion of widgets to see more details

Wifi - is a Technique Which direct Connect your device to high bandwidth Network

Media Support - Android Support Many File Formats [MP3, Jpg, mp4,] etc

Notifications Supp. - It helps to Send NOTIFICATION of New update , message , E-mail

SDK

SDK - Software Development Kit

DVM → DALVIK VIRTUAL Machine

DVM is an Android Virtual machine optimized for Mobile devices

It optimizes the Virtual Machine for MEMORY, BATTERY life & performance

DALVIK

Dalvik is a name of a town in Iceland.

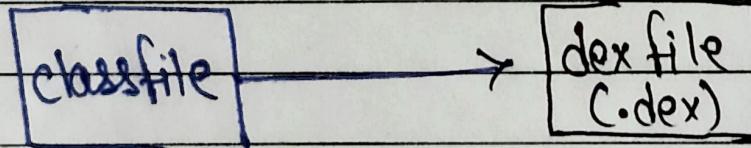
Developer

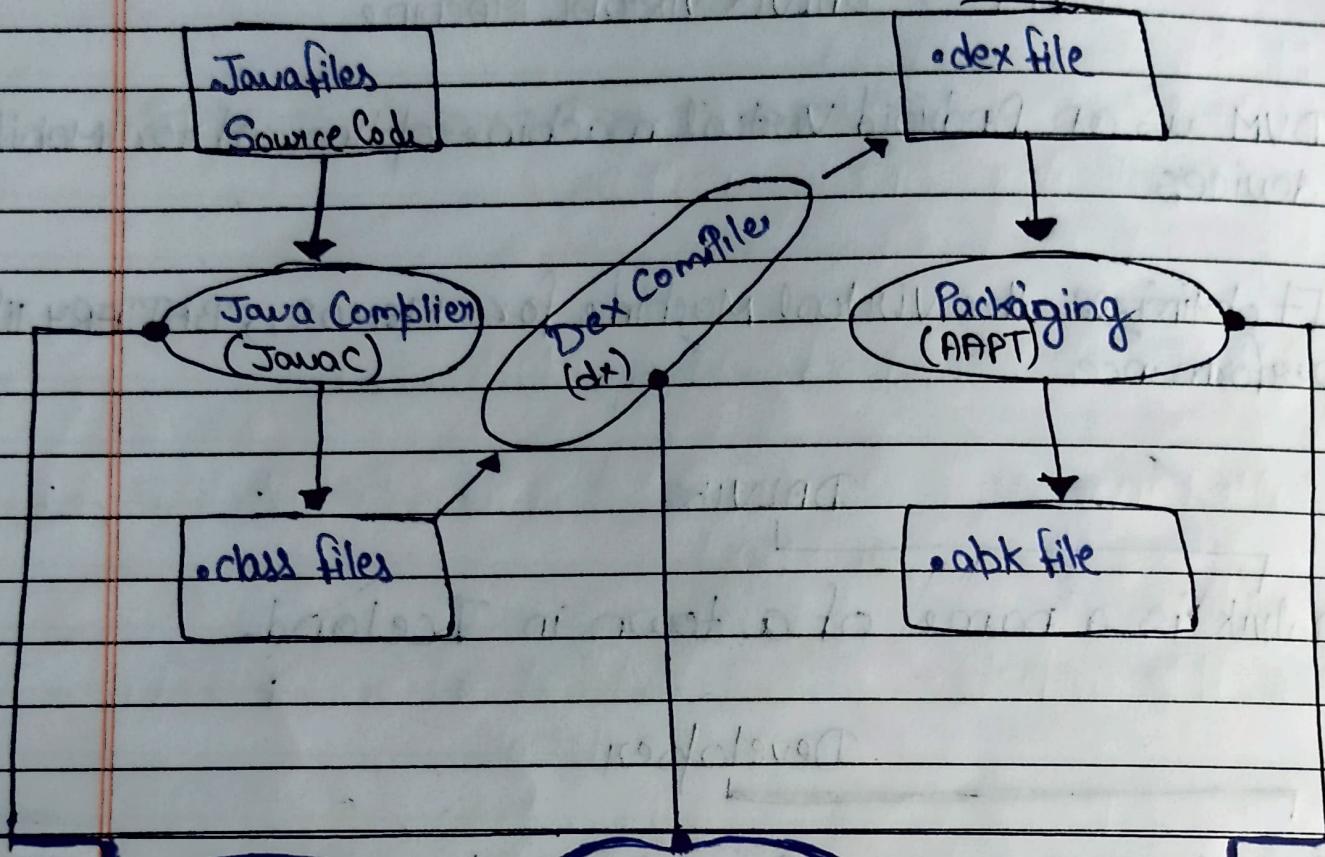
DVM is written by DAN BORNSTEIN

WORKING

The Dex Compiler Converts the classfiles into the .dex file that Run on the Dalvik VM

DVM can Convert multiple class file $\xrightarrow{\text{into}}$ dex file





Javac

The Javac tool compiles the Java source file into The class file

dx tool

The dx tool takes all the class files of your application & generate a single .dex file

Aapt

The Android Assets Packaging Tool (aapt) handles the packaging process

.apk file Extension