

1. Basics of Android

What is Android...?

- Android is an open source and Linux-based Operating System for mobile devices such as smart phones and tablet computers.
- Android was developed by the Open Handset Alliance, led by Google, and other companies.

First Release

- The first beta version of the Android Software Development Kit (SDK) was released by Google in 2007.
- The first commercial version, Android 1.0, was released in September 2008.
- The first android phone was launched by HTC on October 2008(HTC Dream – T-Mobile G1 in USA and some parts of Europe).

Application

- Set of Programs with dedicated functionality is known as Application
- Two types of Applications based on provided interface
 1. System application - Application which helps to communicate between hardware and user application.
 - Ex: Operating Systems, Driver Software etc...
 2. User application - Applications which provides solution for common problems.
 - Ex: MS Office, Banking Applications, Mail & Message Applications, Video Players, etc...
- There are 2 types of Applications based on where it is installed
 - 1 Standalone application (unshared)
 - 2 Web Application (shared)
- Standalone Applications are present in our own computer and they are dedicated per device.
- For ex : Adobe Reader , Web Browser , Media Player etc.
- Web applications are not present in our own computer but they are present in some other computer where our own computer and that computer are “Network Connected”
- For ex : Gmail , Facebook ,Twitter etc.
- There are two types of Standalone Applications
- Desktop Applications
- Mobile Applications
- Desktop Applications: As the name implies ,they are present in our “Desktop/Computer”.
- Mobile Applications: As the name implies ,they are present in our “Smart Phone”.

- Web Applications can be of 3 Tiered(Layered) or 2 tiered
- 3-Tier architecture application: accessed using “Web Browser”
 - Layer1 - Client
 - Layer2 - Server
 - Layer3 - DB
- 2-Tier architecture application: accessed using “Mobile App”
 - Layer1 - Client[DB maintained in Client's device].
 - Layer2 - Server
- Now a days users depend more on Mobile App.