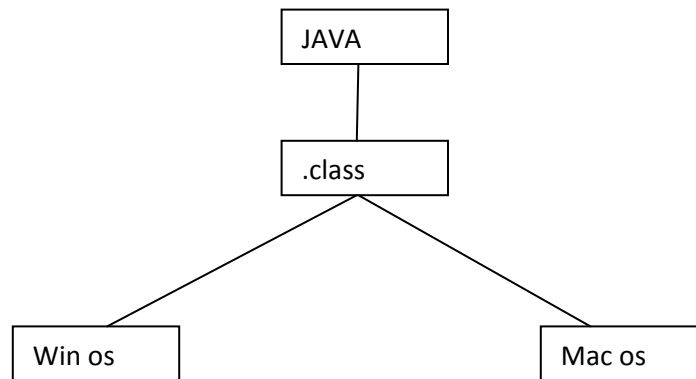# J2EE

Computer

- Computer is a combination of hardware and os.
- Graphically Computer are represented mention below:

- Application is a collection of programs with a dedicated functionality.
- Every application in this world is platform dependent including java.
- Java as an application is plantform dependent but as a programming language is platform independent.

- Every application will have its own known file extentions.
  Ex: pdf readers, media readers.
- Application acts like a interface between user and os.
- Os acts like a interface between application and hardwear.

user
App
Os
H/W

There are two types of applicaton:

1- Stand Alone or Desktop Application(Unshared Application)
2- Web Application (Shared Application)

Stand-Alone or Desktop Application:

i-   These are the application which are present in our own computer and they are dedicated per user. For exapmple: pdf readers, media players.

Web Application:

i-   These application are not present in our computer but they are presenet in "some other" computer and our computer and other (server) is network connected.

ii-   In other words web application are present in networks.

iii- To interact with web application we <u>must</u> need to make use of
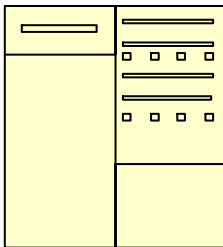
1- Network
2- Web Browser

Networ is a collection of Computers and there are two types of network:

1- Intranet (Private)
2- Internet (Public)

- So web application can be present either in internet or intranet:
  For ex: Jspiders attendence tracking web application is present in intranet and gmail web application is present in internet.
- Whenever we make use of web browser it mean that we are interaction with web application.

Servers

Its also a computer but hardware of this computer is pretty high level compare to our own computers. For ex: Servers can have ram upto Gbs of rams…
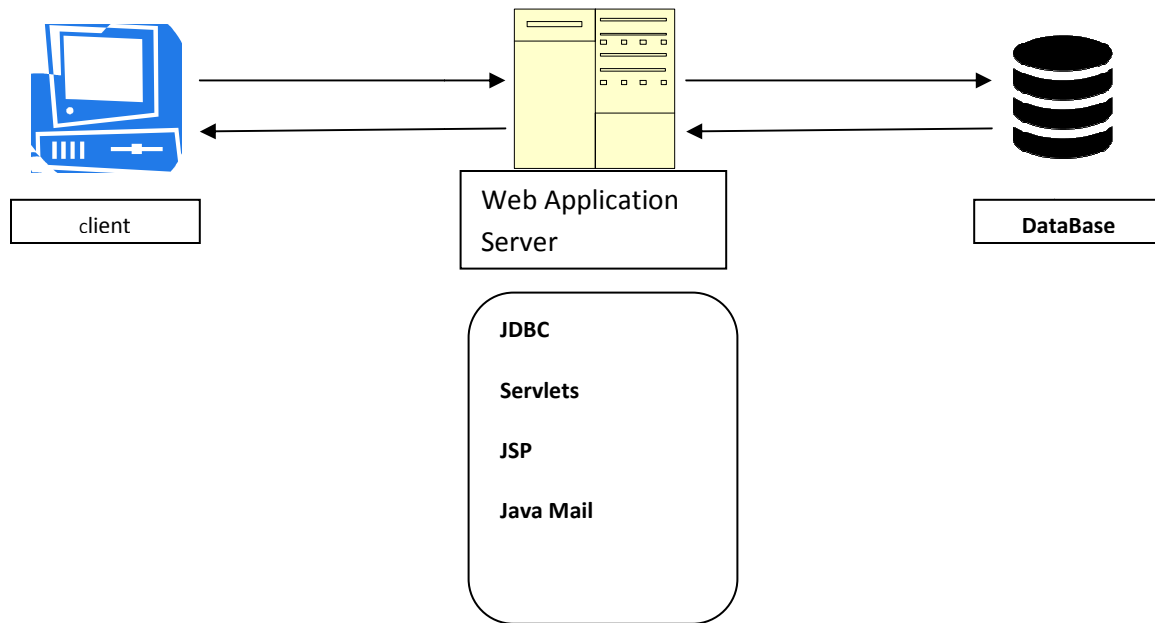Graphically server are represented as:

RDBMS Application (Database or DB)

It also an application which helps us to store and maintain gbs to tbs of data.

Graphically rdbms application is represented as :

J2EE: java is not enough to develop web application so we need some added featers …so J2EE WAS DEVLOPED.

J2EE: java 2 Enterprise Edition (it was introduced in java 1.2)

Packages are used to organize the java programs efficiently.(Collection of java Programs).

API- Collection of packages and every api has its own dedicated functionality.

In J2EE there are many APIs in J2EE like: JDBC, Servlets and JSP, JAVA mail, etc.

Java 2 Enterprise Edition (J2EE, JEE, JAVA EE)

J2ee is a collection of api which helps us to develop enterprise web application

An api (Application Programming Interface) is a collection of packages (One or More) with a dedicated functionality, Major API of J2EE are: JDBC , SERVLETS, JSP.

JDBC helps web application to interact to database

Servlets or jsp helps web application to get the request from browser, generates the response, and gives response back to the browser.

All the API's of J2EE <u>are based upon java</u> and hence they are platform independent.