Different types of Applications built using Java:

a)Standalone Applications(JSE)

* CUI Application(Console User Interface)
* GUI Application(Graphical User Interface)

b. Enterprise Applications

* Web Application
* Distributed Application

Difference b/w Web Application vs Distributed Application.

**Web Application:**

Web Application is server side Application, it will be designed without distributing application logic over multiple JVM’s.

To build web applications we need to use technologies like CGI, Servlet ,JSP and so on.

Main purpose of web applications is to generate dynamic response from server machine.

Web Application provides services only to Web Client’s only.(Using the browser to send to request).

Ex: BMS(webapp) ->To send the request to this application u need browser+internet.

Mobile apps(internet).

In case of web application to execute the program we need “webserver”

**Distributed Application:**

Distributed Application is server side Application, it will be designed by distributing application logic over multiple JVMs.

To build Distributed Applications technologies like RMI(Remote Method Invocation),EJB’s,webservices,RMI(Remote Method Invocation)

The Main purpose of Distributes Application is to establish communication b/w local machine and remote machine to access the remote servers.

Distributed applications will provide services to any type of clients.

Distributed Applications(business to business model).

In case of Distributed application to execute the program we need “Application Server”

A screenshot of a computer

Description automatically generated

Web Application: Interaction will be between Client and Server.

A diagram of a server

Description automatically generated

Distributed Application: Interaction will be between two servers.

Ex: Consider an Example of BookMyshow where it can have details of number of seats booked but if we want to book any ticket we need to payment and the Book MyShow does not have any bank.So it uses other server for completing the payment transactions.

Client ------ >BookMyshow(Ticket Viewing) -----Web Application.

Client ------- >BookMyshow(Ticket Booking)

Client -- > Book My Show ---- >Banking Payment Page(Third party Software).

**Web Application:**

Application which is developed only using web based technologies like html,css,javascript,servlet,jsp etc is called web Application.

Application: Collection of many Programs

**WebServers:**

If we want to want web applications to execute,we need one special software called webserver. Webserver provides environment to run web Applications.

Eg: Tomcat,resin,jetty,glassfish,oracleweblogicserver,…….

**Deployment and UnDeployment:**

**Deployment**: Process of placing yhe web application inside the webserver is called Deployment.

**Un Deployment:**

Process of removing web application from Web server .

**Web Client:**

To send the request from the user we need to have special software installed in the client machine.

The Special software is only is called “browser”.

Ex:Mozilla,chrome,safari,………….