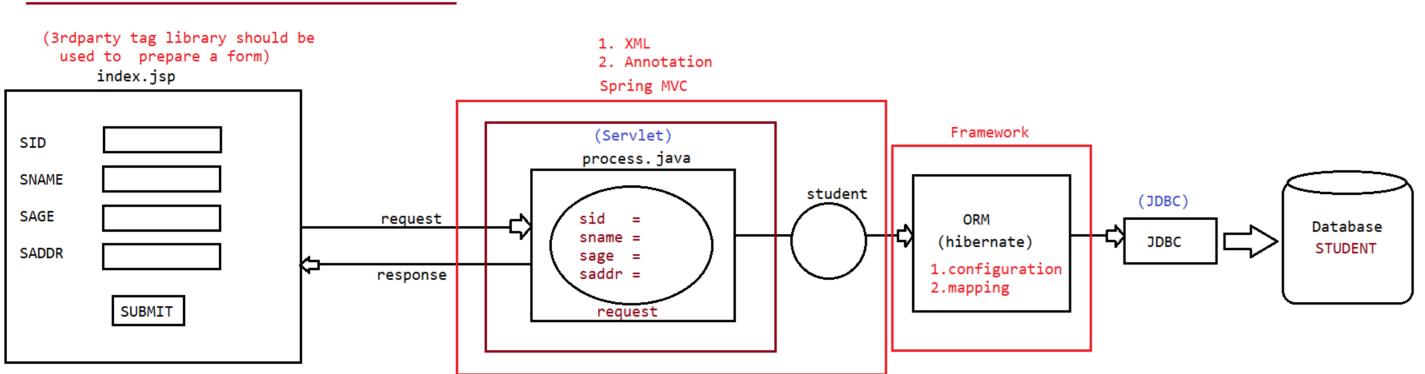
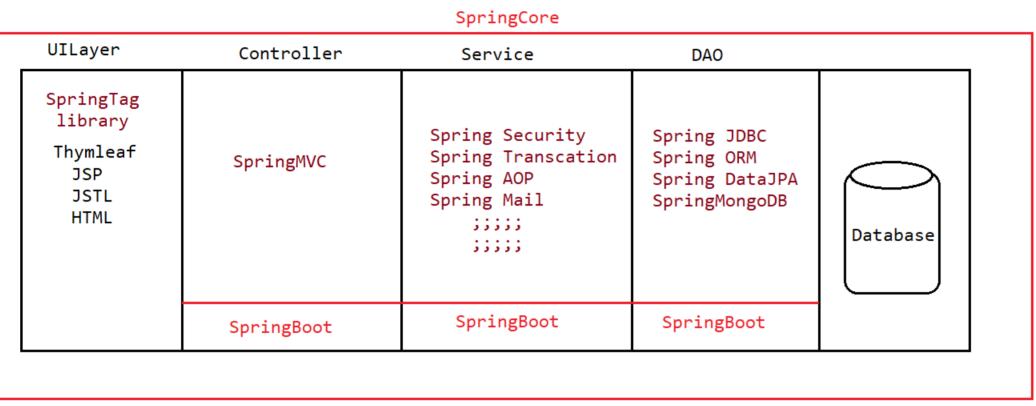
Building application using Technology Annotation (Servlet) SID process.java SNAME student (JDBC) SAGE sid = request Database sname = (hibernate) JDBC STUDENT SADDR sage = 1.configuration saddr = response 2.mapping SUBMIT request String sid = request.getParameter("sid"); String sname = request.getParameter("sname"); String sage = request.getParameter("sage"); String saddr = request.getParameter("saddr"); Student student = new Student(); student.setSid(Integer.parseInt(sid)); student.setSmame(sname); student.setSage(Integer.parseInt(sage)); student.setSaddr(saddr):

Building application using Framework



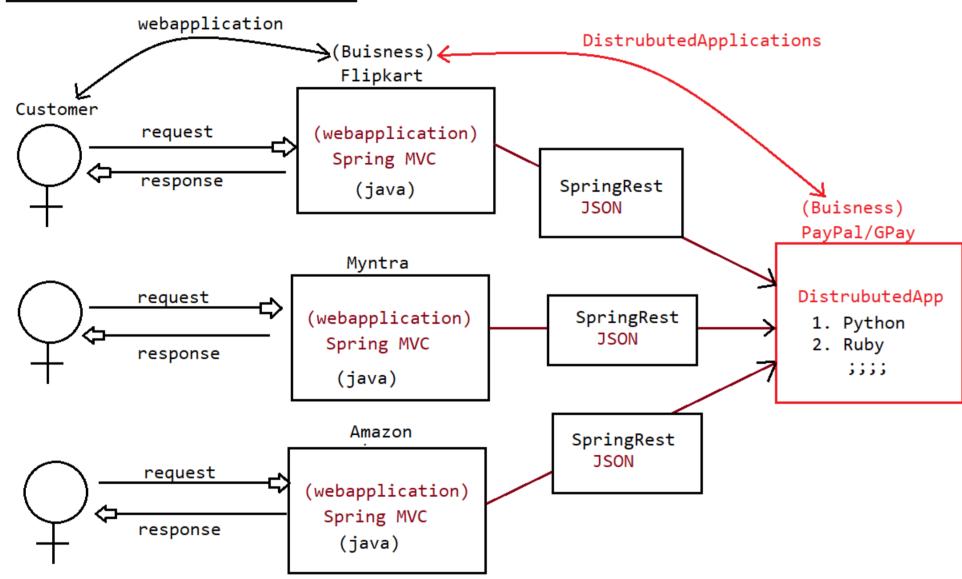
Framework

Application Framework

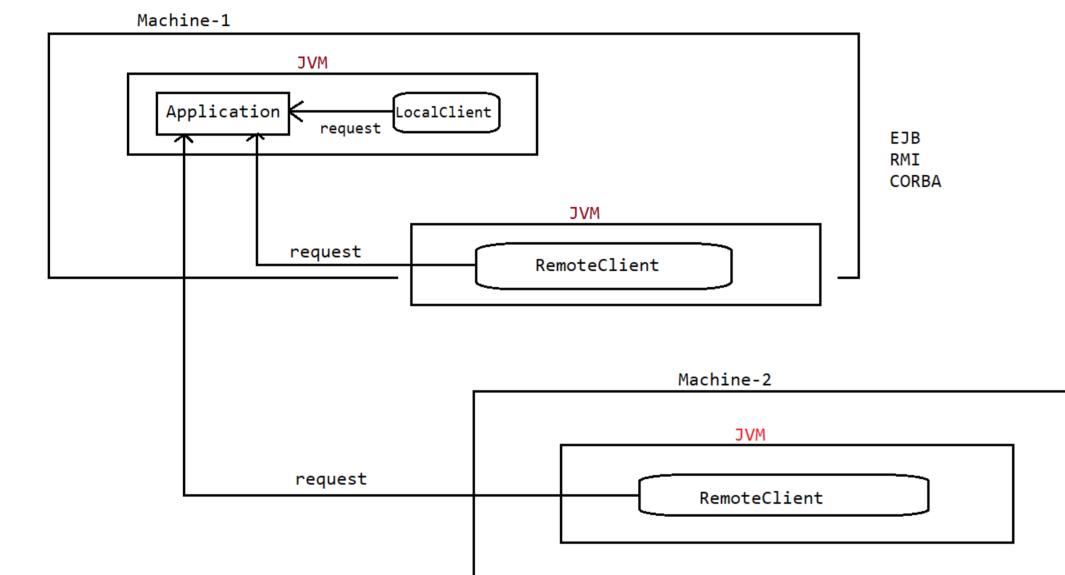


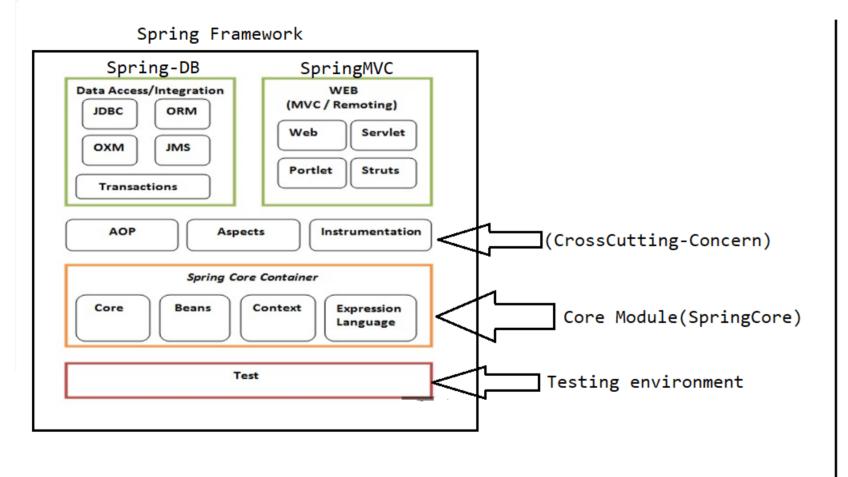
- SpringContainer can be configured in 4 ways
 - a. XML driven configuration b. Annotation driven configuration
 - c. Purejava configuration
 - d. SpringBoot AutoDriven Configuration[RAD-> Rapid Application Development]

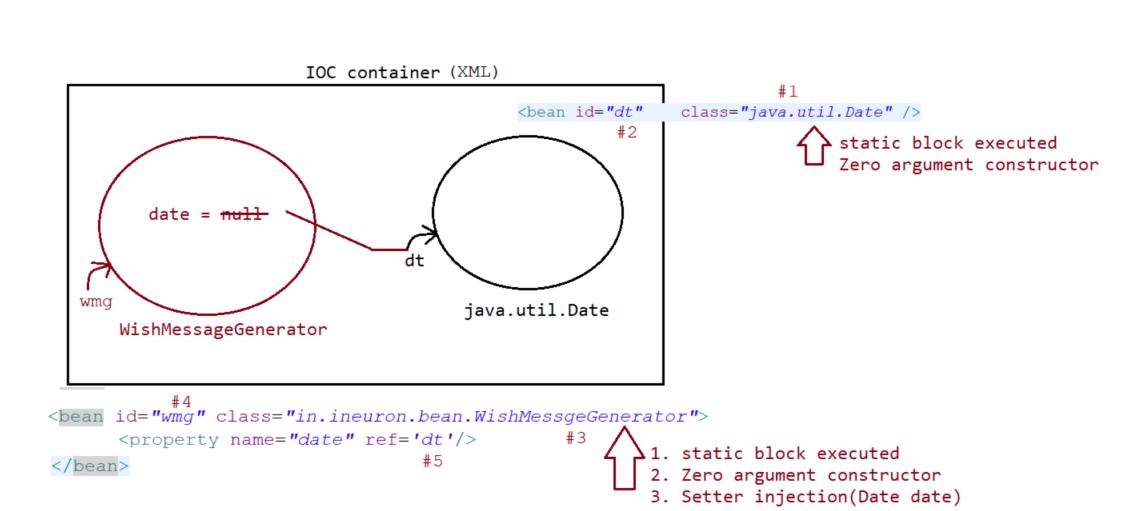
DisturbutedApplication Development



LocalClient/RemoteClient







//using the FileSystemResource to locate the configuration file
FileSystemResource resource = new FileSystemResource("./src/applicationContext.xml");

// Creating an IOC container

XmlBeanFactory factory = new XmlBeanFactory(resource); //Requesting IOC container to give the Object

WishMessgeGenerator generator= factory.getBean("wmg", WishMessgeGenerator.class);

1. IOC container will be created by taking the help of configuration details.

2. Configurationd details are supplied in the form of "applicationContext.xml" file.

3.IOC container name is "XmlBeanFactory"

improve the performance.

factory.getBean("wmg", WishMessageGenerator.class) container will check wheter there is a id called "wmg" configured in

applicationContext.xml file 5. corresponding to id called "wmg" it checks the class and it sees <property> tag, so it would get to know it is setter injection so container will perform the following action. Class c = Class.forName("in.ineruon.bean.WishMessageGenerator") WishMessageGenerator wmg =(WishMessagGenerator)c.newInstance();

6. container should perform setter injection, so it referes to property called "dt". and it checks for "dt"==>id in configuration file.

7. Container will see the id==> dt and it checks the class name corresponding class will be loaded using Date dt=(Date)Class.forName("java.util.Date").newInstance();

8. Now Container will perform Setter Dependancy Injection on the Target Object as shown below. wmg.setDate(dt)

9. Before giving the Target Object to the java app container will maintain a cache where it will keep track of the objects in the form of key-value pair for the future usage to

Key WishMessageGenerator wmg java.util.Date dt

JRE factory inMemoryData of XML <bean id =''</pre> class=''/> Value WishMessageGenerator java.util.Date internal cache

10. At the end of main method since all the variables are local they will be vanished, In the mean time IOC-container will be destroyed, which internally removes the cache Data and also inMemoryData also.