Spring Highlights

EJBs are heavyweight and tightly coupled and Springs are lightweight and loosely coupled.

Heavyweight uses OS libraries and lightweight doesn’t use.

Tightly coupled dependent on other layers.

Loosely coupled doesn’t dependent on other layers.

ORM tools: - JDBC, Hibernate, JPA, ibatis

Spring developed using Runtime Polymorphism and association (has-A relation).

IOC container XML documents and pass the reference to pojo.

**IOC containers: Core and J2EE Container.**

**Spring MVC Container: Web Container.**

Core Container = Bean Factory(Interface) 🡪 XMLBeanFactory

J2EE Container = ApplicationContext(Interface) 🡪 ConfigurableApplicationContext(Interface) 🡪 ClassPathXmlApplicationContext(Class)

MVC Conatiner = WebApplicationContext(Interface)🡪 WebApplicationContextUtil (Factory Class)

XMLBeanFactory Container creates instance of pojo in user request (Lazy container).

ApplicationContext Container creates instance of pojo on loading xml file in case of singleton scope (Eager container).

What containers do:-

1. Create instance of pojo classes.
2. Mange life cycle of pojo.
3. Do dependency injection in pojo.

In xml file configure dtd or xsd in main beans tag.

Scope of beans: - Singleton, Prototype

MVC Scope of beans: - Request, Session, Global Session (Context)

Spring can access private constructors.

Two types of Dependency Injection:- Constructor Parameters and Setter Method