

Why use in spring container?

The spring is responsible for instantiating configuration and assemble spring bean.

The responsibilities of IOC are

- 1) instantiating the bean
- 2)
- 3) configure the bean
- 4) managing the bean entire life cycle

➔ `org.springframework.bean`

➔ `org.springframework.context`

package are the basic for springframework IOC container. springframework provide two distinct type container

- 1) BeanFactory container
- 2) ApplicationContext container

BeanFactory is the root interface of spring IOC container. ApplicationContext container is the child interface of BeanFactory interface get provides spring features.

One main difference between BeanFactory and applicationContext is that BeanFactory only instantiates bean when be call `getBean()` method

While applicationContext instantiates singleton

Basic IOC create and mange bean and their dependency

- 1) **lazy initialization** by default bean are lazy initialize this mean the are instantiates only when explicitly requested.
- 2) **ApplicationContext**