

* Ambiguity Problem & its solution with Constructor Injection

* Life Cycle Methods of Spring Beans

→ Spring provide two important methods to every bean

(i) public void init() → For initialization

(ii) public void destroy() → For destroy

We can change the name of these methods (i.e. init/destroy) but signature must be same (i.e. public void).

(i) public void init(): Initialization code. ~~code of~~ loading config. Connecting db, webservices etc code into init().

(ii) public void destroy(): Clean up code (writing only close-up/clean-up code into destroy()).

A Java class which has its default constructor, some properties, getter, setter, etc. (A simple Java class)

Spring bean

create object

Object

Object Instantiation (Object creation) setting properties

Setting values of properties inside object

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After setting property it'll call init() method

init()

Now we can ask for bean from spring container

Then we Read & use the bean

After calling your methods of bean then it'll call destroy() before destroying its object

destroy()

(In destroy we're to write clean up method)

Spring bean's meta data (i.e. Configuration File)

Configuration
Xml File

Implementing Bean lifecycle using Interfaces Initializing Bean
DisposableBean / (Init / Destroy method called/configure using
Spring Interfaces).

create bean & implement two interfaces.

Initializing Bean → It will provide one method & in that we've to write our init() code.

Disposable Bean → It'll provide destroy functionality.

Pepsi.java:

package;

import org.springframework.beans.factory.DisposableBean;

import org.springframework.beans.factory.InitializingBean;

public class Pepsi implements InitializingBean, DisposableBean {
 private double price;

public double getPrice() {
 return price;
}

public void setPrice(double price) {
 this.price = price;
}

public Pepsi() {
 super();
}

@Override

To run destroy() method
run

```
public String toString() {  
    return "Pepsi [price = " + price + "];"  
}
```

```
init() {  
    // public void after PropertiesSet() throws Exception {  
    // TODO Auto-generated  
    // init  
    S.o.pln("taking Pepsi: init");  
}
```

```
destroy() {  
    // public void destroy() throws Exception {  
    // destroy  
    S.o.pln("Going to put bottle: destroy");  
}
```

TestJavac

package . . .;

```
import Application Context;  
import AbstractApplication Context;  
" Cross Path Xml Application Context;
```

```
public class Test {  
    p. s. run (String args[]) {
```

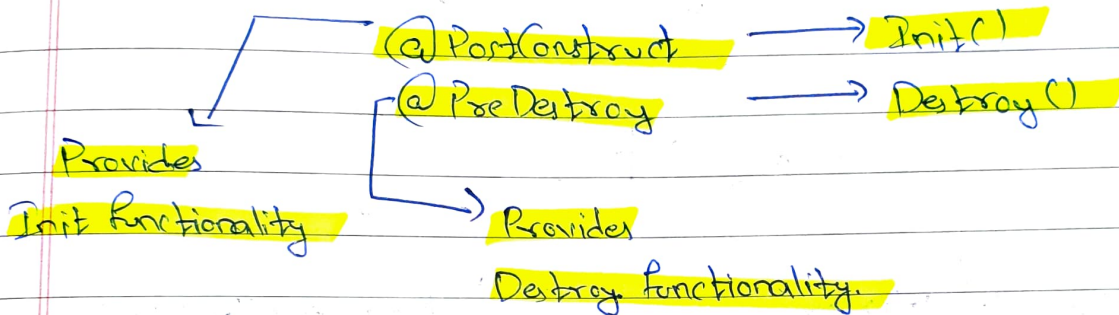
AbstractApplication Context context = new class pa . . .

try to context.registerShutdownHook();

config.xml.

```
<bean class="com.cp" id="p1">
  <property name="price" value="5"/>
</bean>
```

(iii) Implementing Bean Lifecycle using Annotations @PostConstruct
@PreDestroy.



For java 8 it's inbuilt, but for higher version we need to add the dependencies in ~~xml~~^{pom} file, so we just need to copy it from web search & paste it into pomXML file.