

Spring Fragwork spring

Content



Spring Core

Spring Data Integration

Spring WEB

Spring Other Important Modules

Prerequisite of course



Core java

JDBC

Servlet & JSP

Important Web and Database related terms

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What spring ng?

What is Spring?



Spring is a Dependency Injection framework to make java application loosely coupled.

Spring framework makes the easy development of JavaEE application.

It was developed by Rod Johnson in 2003

Dependency Injection



It is design pattern

```
class Ramu
{

Geeta ob;

public void doWork()

public void doWork()

}

}
```

Spring and JEE



Strut / JSF

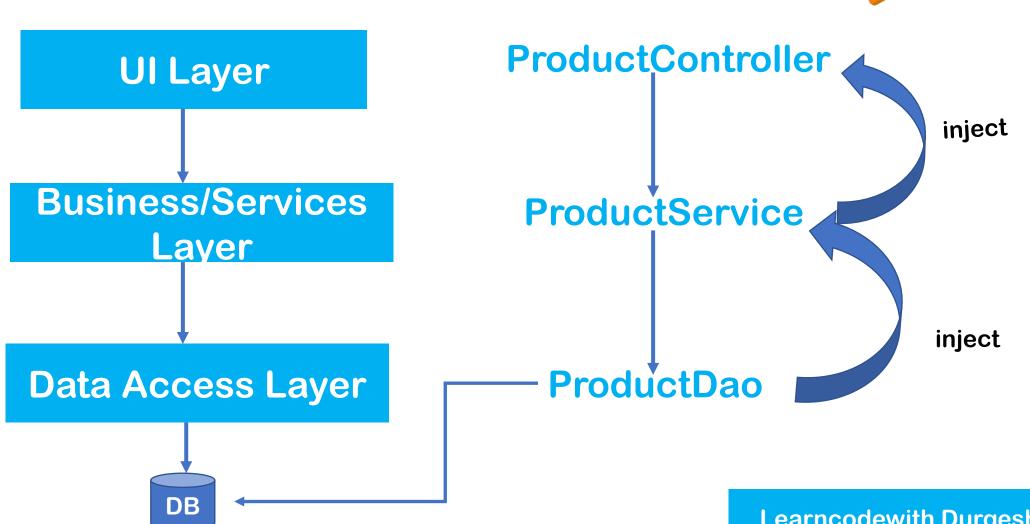
Spring MVC

Security

Transaction Management

Spring JDBC

Spring ORM



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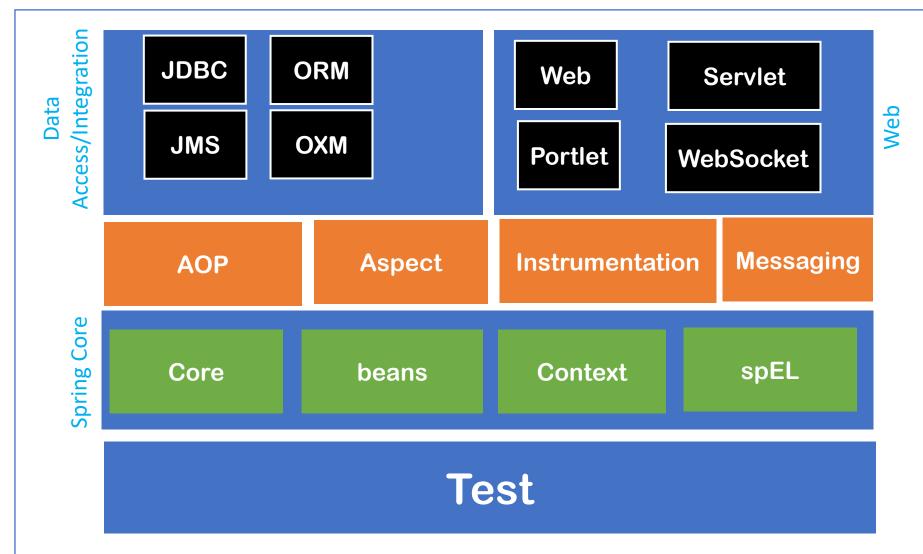




Spring Framework

Spring Modules



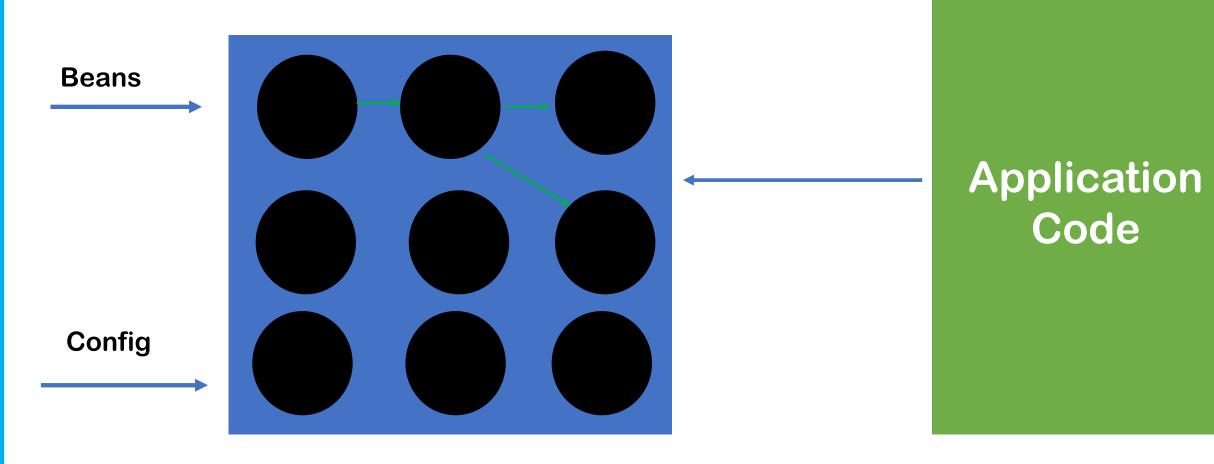




Spring spring ntainer

Spring IoC Container





ApplicationContext



ClasspathXMLApplicationContext

AnnotationConfigApplicationContext

FileSystemXMLApplicationContext





Dependency Injection



```
class Student
                                                  class Address
                                                        String street;
      int id;
                                                        String city;
     String name;
                                                        String state;
      Address address;
                                                        String country;
```

Dependency Injection Can be done in 2 ways



Using Setter Injection



Using Constructor Injection

Setter Injection



```
class Student
       id,name,address
       setId(id){ }
       setName(name){ }
       setAddress(address){ }
```



```
class Address
      street,city,state,country
       setStreet(street)
       setCity(city)
       setState(state)
       setCountry(country)
```

Constructor Injection



```
class Student
       String id, name, address;
        Student(id,name,address)
```

```
class Address
  String street, city, state, country;
  Address(street, city, state, country)
```

Configuration File



Where we declare beans and its dependency



Data Types (Dependencies)



1)Primitive DataTypes

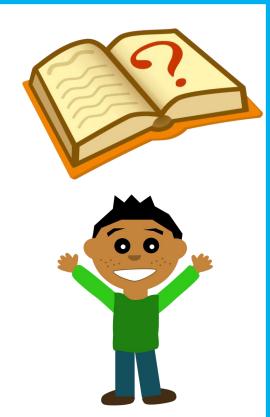


Byte , short , char , int , float , double , long , boolean

Data Types

2) Collection Type

List , Set , Map and Properties



Life Cycle Methods



Initialization
code
Loading
config,
Connecting db,
Webservice etc

Spring provide two important methods to every bean



public void init()

public void destroy()

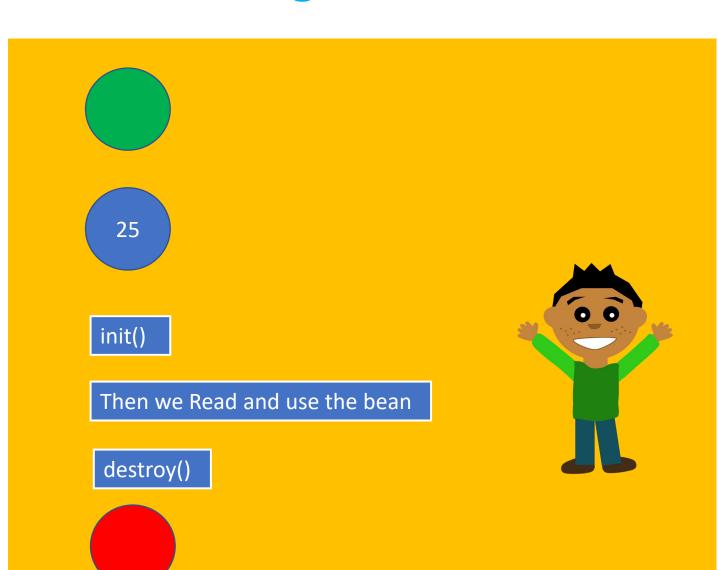
Clean up code

We can change the name of these method
But signature must be same

Life Cycle

Spring bean

Configuration Xml File



Configure Technique



Xml

Spring Interface

Annotation



Using Interfaces



InitializingBean

DisposableBean



Using Annotations



@PostConstruct

@PreDestory



Autowiring in Spring

• Feature of spring Framework in which spring container inject the dependencies automatically .

Autowiring can't be used to inject primitive and string values. It works with reference only.



Manually

<ref bean=""/>



Programmer

Automatically



Spring container

Autowiring

XML

Annotations

Autowiring Modes

no

byName

byType

constructor

autodetect

It is deprecated since Spring 3.

@Autowired

Autowiring Advantages

- Automatic
- less code

Autowiring Disadvantages

- No control of programmer.
- It can't be used for primitive and string values.

Stereotype Annotations

• XML <bean />

```
@Component
Class Student
{
```





<context:component-scan base-package=" " />

Stereotype Annotation

```
@Component
Class Student
{
```

Student student=new Student()





Bean Scope

Singleton

prototype

request

session

globalsession





Configure bean scope

```
<bean class=" " name=" " scope=" " />
@Component
@Scope(" ")
Class Student
{
```



SpEL Spring Expression Language

Supports Parsing and executing expression with the help of @Value annotations

Expression

@Value

Classes, Variable, Methods, Constructors and Objects

and symbols

char,numerics,operators,keywords and special symbols which return a value





SpEL

@value("#{11+22}")

@value("#{ 8>6 ? 88 : 55"})

static methods

object methods variables





How to invoke static method and variable?

T(class).method(param)

T(class).variable





How to create objects?

new Object(value)



