

First Simple Spring Application-

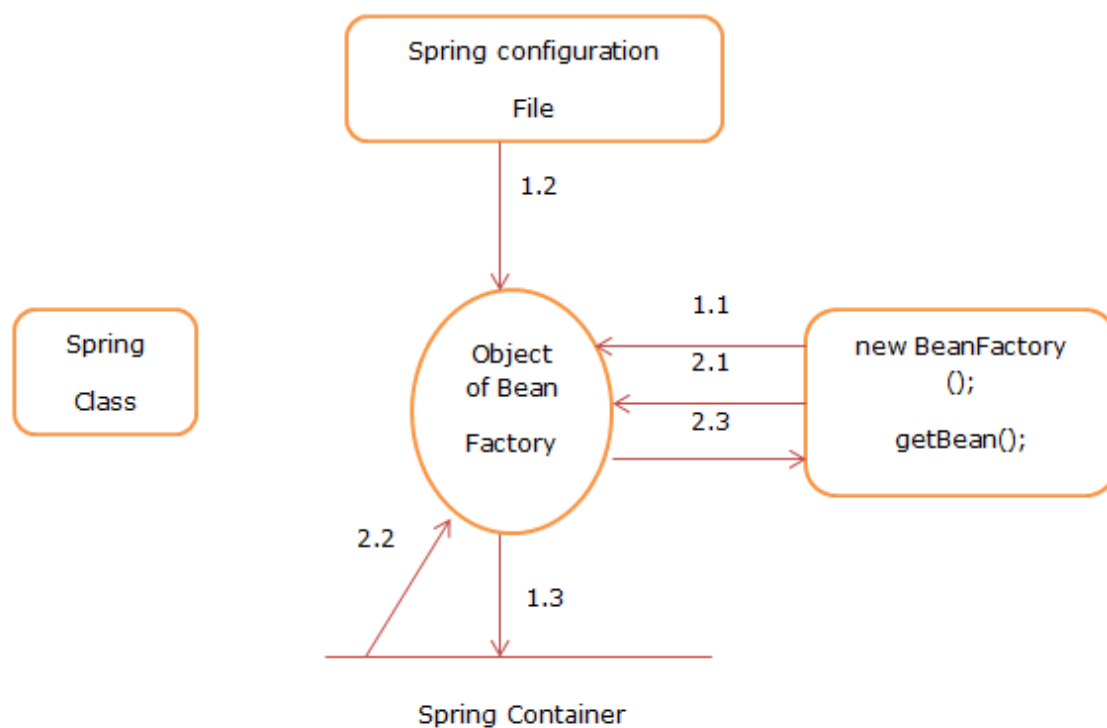
The following resources are required to build the first spring application.

Spring bean class (Java class)

Spring configuration files (.xml)

Client application (Java class with main method)-

Internal working of Spring-



1.1 BeanFactory object is created.

1.2 Spring Configuration file is injected into bean factory object.

1.3 Spring bean (POJO) object created and stored into Spring/IOC container.

2.1 getBean () method is invoked.

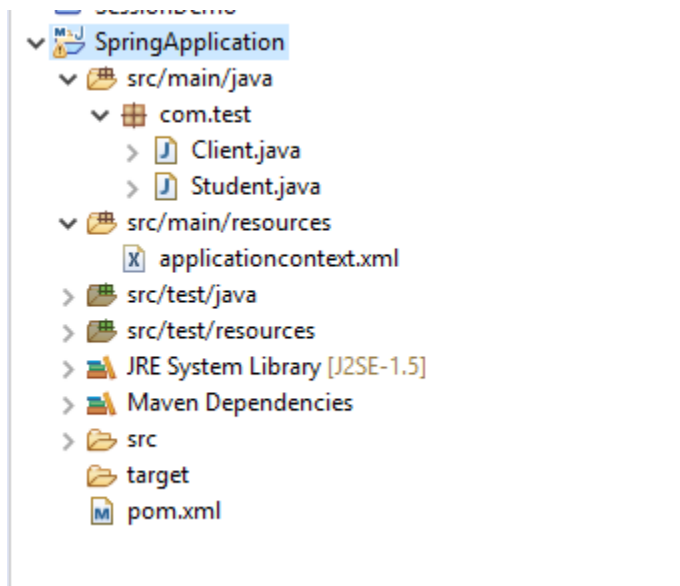
2.2 get the spring bean object (Student class object)

2.3 Bean object provided to user program.

Note –

1. If we use ApplicationContext then it will create the object of ApplicationContext not BeanFactory.
2. We can mention named as spring.xml file or applicationalcontext.xml.

Folder structure of Spring Application.



Student.java

```
package com.test;
```

```
public class Student {
```

```
    private String firstname;
```

```
    private String age;
```

```
    private String city;
```

```
    public String getFirstname() {
```

```
        return firstname;
```

```
    }
```

```
    public void setFirstname(String firstname) {
```

```

        this.firstname = firstname;
    }

    public String getAge() {
        return age;
    }

    public void setAge(String age) {
        this.age = age;
    }

    public String getCity() {
        return city;
    }

    public void setCity(String city) {
        this.city = city;
    }

    @Override
    public String toString() {
        return "Student [firstname=" + firstname + ", age="
+ age + ", city=" + city + "]";
    }
}

```

Client.java

```

package com.test;

import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.xml.XmlBeanFactory;
import org.springframework.core.io.ClassPathResource;
import org.springframework.core.io.Resource;

public class Client {

    public static void main(String[] args) {

```

```

        ApplicationContext context=new
ClassPathXmlApplicationContext("spring.xml");
        Student student=(Student)context.getBean("s");
        System.out.println("Student data>>" + student);    }
}

```

applicationContext.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://www.springframework.org/schem
a/beans
        http://www.springframework.org/schema/beans/spring-
beans-2.5.xsd">

    <bean id="s" class="com.test.Student">
        <property name="firstname" value="ram"></property>
        <property name="age" value="25"></property>
        <property name="city" value="pune"></property>
    </bean>
</beans>

```

Pom.xml

```

<project xmlns="http://maven.apache.org/POM/4.0.0"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>spring</groupId>
    <artifactId>SpringApplication</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <dependencies>
        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-core</artifactId>
            <version>${spring.version}</version>
        </dependency>
    </dependencies>

```

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-context</artifactId>
  <version>${spring.version}</version>
</dependency>

</dependencies>
<properties>
  <spring.version>3.2.3.RELEASE</spring.version>
</properties>
</project>
```

Output-

Student data>>Student [firstname=ram, age=25, city=pune]