

SPRING @QUALIFIER ANNOTATION

http://www.tutorialspoint.com/spring/spring_qualifier_annotation.htm

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There may be a situation when you create more than one bean of the same type and want to wire only one of them with a property, in such case you can use **@Qualifier** annotation along with **@Autowired** to remove the confusion by specifying which exact bean will be wired. Below is an example to show the use of @Qualifier annotation.

Example:

Let us have working Eclipse IDE in place and follow the following steps to create a Spring application:

Step	Description
1	Create a project with a name <i>SpringExample</i> and create a package <i>com.tutorialspoint</i> under the src folder in the created project.
2	Add required Spring libraries using <i>Add External JARs</i> option as explained in the <i>Spring Hello World Example</i> chapter.
3	Create Java classes <i>Student</i> , <i>Profile</i> and <i>MainApp</i> under the <i>com.tutorialspoint</i> package.
4	Create Beans configuration file <i>Beans.xml</i> under the src folder.
5	The final step is to create the content of all the Java files and Bean Configuration file and run the application as explained below.

Here is the content of **Student.java** file:

```
package com.tutorialspoint;

public class Student {
    private Integer age;
    private String name;

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

    public Integer getAge() {
        return age;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getName() {
        return name;
    }
}
```

Here is the content of **Profile.java** file:

```
package com.tutorialspoint;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Qualifier;

public class Profile {
    @Autowired
    @Qualifier
```

```

@Qualifier("student1")
private Student student;

public Profile(){
    System.out.println("Inside Profile constructor." );
}

public void printAge() {
    System.out.println("Age : " + student.getAge() );
}

public void printName() {
    System.out.println("Name : " + student.getName() );
}
}

```

Following is the content of the **MainApp.java** file:

```

package com.tutorialspoint;

import org.springframework.context.ApplicationContext;
import org.springframework.context.support.ClassPathXmlApplicationContext;

public class MainApp {
    public static void main(String[] args) {
        ApplicationContext context = new ClassPathXmlApplicationContext("Beans.xml");

        Profile profile = (Profile) context.getBean("profile");

        profile.printAge();
        profile.printName();
    }
}

```

Consider the example of following configuration file **Beans.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"
    xmlns:context="http://www.springframework.org/schema/context"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
        http://www.springframework.org/schema/context
        http://www.springframework.org/schema/context/spring-context-3.0.xsd">

    <context:annotation-config/>

    <!-- Definition for profile bean -->
    <bean >
    </bean>

    <!-- Definition for student1 bean -->
    <bean >
        <property name="name" value="Zara" />
        <property name="age" value="11"/>
    </bean>

    <!-- Definition for student2 bean -->
    <bean >
        <property name="name" value="Nuha" />
        <property name="age" value="2"/>
    </bean>

</beans>

```

Once you are done with creating source and bean configuration files, let us run the application. If

everything is fine with your application, this will print the following message:

```
Inside Profile constructor .  
Age : 11  
Name : Zara
```