

Setter Injection XML

Implement Setter Injection for both bean and simple value dependencies on a pre-existing application in order to migrate it to be Spring Managed. This is our last XML lab

In StudentServiceImpl, add a property int numberOfStudents and generate getter and setters for this new property. In the method getAllStudents, replace its implementation to limit the number of students to the value of numberOfStudents i.e.

```
return studentDao.getAll().stream()
    .limit(numberOfStudents)
    .collect(Collectors.toList());
```

In beans xml

- Define a BeanDefinition for StudentDaoImpl, make sure you have an id attribute
- In the Bean Definition for StudentService Impl
- Define a property tag for numberOfStudents set to "2"
- Define a property tag for StudentDaoImpl, this will use the "ref" attribute to reference the bean definition "id" attribute for the desired bean

Test

In the class StudentServiceTest

- Test that the dao is injected into the service bean

```
assertThat(service.getAllStudents().size(), equalTo(2));  
service.getAllStudents().forEach(p-> {  
    System.out.printf("%-10s %-10s%n",p.getFirstName(), p.getSurname());  
});
```