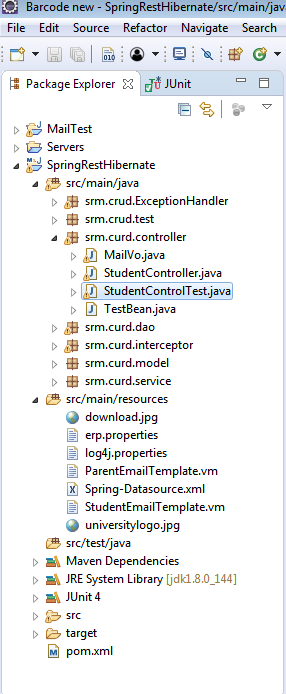
**Junit Test Case in Spring**



Src/main/resources/Spring-Datasource.xml (its similar content of Servelet.xml)

<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"*

xmlns:mvc=*"http://www.springframework.org/schema/mvc"* xmlns:aop=*"http://www.springframework.org/schema/aop"*

xmlns:tx=*"http://www.springframework.org/schema/tx"*

xsi:schemaLocation=*"http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans.xsd*

*http://www.springframework.org/schema/context*

*http://www.springframework.org/schema/context/spring-context.xsd*

*http://www.springframework.org/schema/mvc*

*http://www.springframework.org/schema/mvc/spring-mvc.xsd*

*http://www.springframework.org/schema/aop*

*http://www.springframework.org/schema/aop/spring-aop.xsd*

*http://www.springframework.org/schema/tx*

*http://www.springframework.org/schema/tx/spring-tx.xsd"*>

<context:component-scan base-package=*"srm.curd"* />

<bean id=*"dataSource"*

class=*"org.springframework.jdbc.datasource.DriverManagerDataSource"*>

<property name=*"driverClassName"* value=*"com.mysql.jdbc.Driver"* />

<property name=*"url"* value=*"jdbc:mysql://localhost:3306/concretepage"* />

<property name=*"username"* value=*"root"* />

<property name=*"password"* value=*"root"* />

</bean>

<!-- Hiberante Entity Manager Configurations -->

<bean id=*"entityManagerFactory"*

class=*"org.springframework.orm.jpa.LocalContainerEntityManagerFactoryBean"*>

<property name=*"dataSource"* ref=*"dataSource"* />

<property name=*"packagesToScan"*

value=*"srm.curd.model,srm.curd.controller,srm.curd.dao,srm.curd.service"* />

<property name=*"jpaVendorAdapter"*>

<bean class=*"org.springframework.orm.jpa.vendor.HibernateJpaVendorAdapter"* />

</property>

<property name=*"jpaProperties"*>

<props>

<!-- org.hibernate.dialect.MySQLDialect

org.hibernate.dialect.PostgreSQLDialect

-->

<prop key=*"hibernate.dialect"*>org.hibernate.dialect.MySQLDialect</prop>

<prop key=*"hibernate.show\_sql"*>true</prop>

<prop key=*"hibernate.hbm2ddl.auto"*>update</prop>

</props>

</property>

</bean>

<bean id=*"transactionManager"* class=*"org.springframework.orm.jpa.JpaTransactionManager"*>

<property name=*"entityManagerFactory"* ref=*"entityManagerFactory"* />

</bean>

<tx:annotation-driven proxy-target-class=*"true"*

transaction-manager=*"transactionManager"* />

</beans>

StudentControlTest.java

**package** srm.curd.controller;

**import** **static** org.junit.Assert.*assertEquals*;

**import** **static** org.junit.Assert.*assertNotNull*;

**import** **static** org.junit.Assert.*assertTrue*;

**import** java.text.DateFormat;

**import** java.text.ParseException;

**import** java.text.SimpleDateFormat;

**import** java.util.Date;

**import** java.util.List;

**import** java.util.Locale;

**import** org.junit.Test;

**import** org.junit.After;

**import** org.junit.AfterClass;

**import** org.junit.Before;

**import** org.junit.BeforeClass;

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

**import** org.springframework.http.HttpStatus;

**import** org.springframework.http.ResponseEntity;

**import** org.springframework.test.context.ContextConfiguration;

**import** org.springframework.test.context.junit4.SpringJUnit4ClassRunner;

**import** org.springframework.test.context.web.WebAppConfiguration;

**import** org.junit.runner.RunWith;

**import** srm.curd.model.Student;

**import** srm.curd.service.StudentServiceImpl;

@WebAppConfiguration

@RunWith(SpringJUnit4ClassRunner.**class**)

@ContextConfiguration({"classpath:Spring-Datasource.xml"})

**public** **class** StudentControlTest {

@Autowired

**private** StudentController studentController;

@Autowired

**private** StudentServiceImpl studentServiceImpl;

//execute only once, in the starting

@BeforeClass

**public** **static** **void** beforeClass() {

System.***out***.println("in before class");

}

//execute only once, in the end

@AfterClass

**public** **static** **void** afterClass() {

System.***out***.println("in after class");

}

//execute for each test, before executing test

@Before

**public** **void** before() {

System.***out***.println("in before");

}

//execute for each test, after executing test

@After

**public** **void** after() {

System.***out***.println("in after");

}

@Test

**public** **void** validateUser\_Test\_Positive() **throws** ParseException {

Student dummyStudent = **new** Student();

dummyStudent.setId(107);

dummyStudent.setName("aarthiG");

//dummyStudent.setAge(21);

dummyStudent.setDepartment("cs");

dummyStudent.setDegree("BE");

String string = "1999-09-10";

DateFormat format = **new** SimpleDateFormat("yyyy-mm-dd", Locale.***ENGLISH***);

Date date = format.parse(string);

System.***out***.println(date); // Sat Jan 02 00:00:00 GMT 2010

dummyStudent.setDob(date);

ResponseEntity<?> result = studentController.createStudent(dummyStudent);

*assertNotNull*(result);

*assertEquals*(result.getStatusCode(), HttpStatus.***OK***);

}

@Test

**public** **void** userDetails\_Test() {

List<Student> studentList= studentController.getAllStudents();

*assertNotNull*(studentList);

*assertTrue*(studentList.size() > 0);

}

}

Pom.xml

<!-- https://mvnrepository.com/artifact/junit/junit -->

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.7</version>

<scope>test</scope>

</dependency>

<!-- https://mvnrepository.com/artifact/org.springframework/spring-test -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-test</artifactId>

<version>4.3.15.RELEASE</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.hamcrest</groupId>

<artifactId>hamcrest-all</artifactId>

<version>1.3</version>

</dependency>

To run Junit Test Case :

