Writing JUNIT Test Case

1. Replace the new version inside the pom.xml file of junit with 4.12.
2. Create ProductsTestCase Class inside the test package of com.health.HealthMedicineQuestbackEnd package.
3. Type the following code inside the class:

**package** com.health.HealthMedicineQuestBackEnd.test;

**import** org.junit.BeforeClass;

**import** org.junit.Test;

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

**import** org.springframework.context.annotation.AnnotationConfigApplicationContext;

**import** com.health.HealthMedicineQuestBackEnd.dao.IProductDAO;

**import** com.health.HealthMedicineQuestBackEnd.model.Product;

**public** **class** ProductsTestCase {

**private** **static** AnnotationConfigApplicationContext *context*;

**private** **static** IProductDAO *productDAO*;

**private** **static** Product *product*;

@BeforeClass

**public** **static** **void** init(){

*context*=**new** AnnotationConfigApplicationContext();

*context*.scan("com.health.HealthMedicineQuestBackEnd");

*context*.refresh();

*productDAO*=(IProductDAO)*context*.getBean("productDAO");

}

/\* @Test

public void testAddProducts(){

product=new Product();

product.setProductName("SBL Homeocal Tabs (25g)");

product.setProductDescription("Optimise Bone Health, Relieves Osteoporosis, Calcium Deficiency");

product.setProductPrice(112);

product.setProductQuantity(15);

product.setImageUrl("HomeoCal.jpg");

assertEquals("Successfully added a product inside the table!", true, productDAO.addProducts(product));

}

\*/

@Test

**public** **void** testGetProduct(){

product=*productDAO*.getProduct(1);

*assertEquals*("Successfully added a product inside the table!", "SBL Homeocal Tabs (25g)", product.getProductName());

}

@Test

**public** **void** testUpdateProduct(){

product=*productDAO*.getProduct(1);

product.setProductName("SBL Homeocal Tabs (25g)");

product.setProductDescription("Optimise Bone Health, Relieves Osteoporosis, Calcium Deficiency");

product.setProductPrice(112);

product.setProductQuantity(10);

product.setImageUrl("HomeoCal.jpg");

*assertEquals*("Successfully updated a product inside the table!", **true**, *productDAO*.updateProducts(product));

}

@Test

**public** **void** testDeleteProduct(){

*assertEquals*("Successfully deleted a product from the table!", **true**, *productDAO*.deleteProducts(7));

}

}

1. Replace ProductDAOImpl with the following code

package com.health.HealthMedicineQuestBackEnd.daoimpl;

import java.util.ArrayList;

import java.util.List;

import org.hibernate.SessionFactory;

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

import org.springframework.stereotype.Repository;

import org.springframework.transaction.annotation.Propagation;

import org.springframework.transaction.annotation.Transactional;

import com.health.HealthMedicineQuestBackEnd.dao.IProductDAO;

import com.health.HealthMedicineQuestBackEnd.model.Product;

@Repository("productDAO")

@Transactional

public class ProductDAOImpl implements IProductDAO {

@Autowired

SessionFactory sessionFactory;

public List<Product> getAllProducts() {

return sessionFactory.getCurrentSession().createQuery("from Product", Product.class).getResultList();

}

public Product getProduct(int id) {

return sessionFactory.getCurrentSession().get(Product.class,Integer.valueOf(id));

}

public boolean addProducts(Product p) {

try {

sessionFactory.getCurrentSession().persist(p);

return true;

} catch (Exception e) {

e.printStackTrace();

return false;

}

}

1. Run as Junit Test