Writing JUnit Test Case

1.Update the latest version of JUnit in pom.xml for back end project.

<junit.version>4.12</junit.version>

2.Create a package with the name test inside the net.sports.ZenSportsBackEnd package.

3.Inside this , add a class , ProductsTestCase.

4.Inside the class add the following :

private static AnnotationConfigApplicationContext context;

private static IProductDAO productDAO;

private Product product;

@BeforeClass

public static void init() {

context = new AnnotationConfigApplicationContext();

context.scan("net.sports.ZenSportsBackEnd");

context.refresh();

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

}

@Test

public void testAddProduct()

{

product=new Product();

//product.setProductId(107);

product.setProductName("FITNESS WALKING SUNGLASSES");

product.setProductCategory("Fitness");

product.setProductImage("P7.jpg");

product.setProductPrice(200);

product.setProductQuantity(5);

product.setProductDescription("Made for regular fitness walking in bright sunshine. ");

product.setProductKeyword("Fitness,Walking,Sunglass,Blue");

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

}

@Test

public void testGetProduct()

{

product=productDAO.getProduct(1);

assertEquals("Retrieving data based on id from table","Pillow,Comfortable,Sleep,Travel",product.getProductKeyword());

}

@Test

public void testDeleteProduct()

{

assertEquals("Deleting product based on id from table",true,productDAO.deleteProduct(20));

}

@Test

public void testUpdateProduct()

{

product=productDAO.getProduct(7);

product.setProductName("Walking SUNGLASSES-Updated");

product.setProductCategory("Fitness");

product.setProductImage("P7.jpg");

product.setProductPrice(200);

product.setProductQuantity(5);

product.setProductDescription("Made for regular fitness walking in bright sunshine. ");

product.setProductKeyword("Fitness,Walking,Sunglass,Blue");

assertEquals("Updating user based on id from table",true,productDAO.updateProduct(product));

}

Note : import static org.junit.Assert.assertEquals has to be added.

Also update the getProduct(int id) method of ProductDAOImpl ,update:

public Product getProduct(int id) {

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

}

5.Right click the test>java>net>sports>ZenSportsBackEnd>test>ProductsTestCase and select run as JUnit test.

6.It will run the test and insert the record in the database , and you can verify it by running the project and testing the view all tab.