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Unit testing Spring Transaction Management

Posted on [October 31, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

Unit testing Spring transaction management → i.e. commit & rollback scenarios as shown below. On a separate post, will do an integration test for the Spring transaction manager. The test class defines the transactional boundaries. Transaction Commit scenario

```

1 package com.myapp.dao;
2
3 import java.util.List;
4
5 import org.junit.Assert;
6 import org.junit.Test;
7 import org.junit.runner.RunWith;
8 import org.springframework.beans.factory.annotation.Autowired;
9 import org.springframework.boot.test.SpringApplicationConfiguration;
10 import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;
11 import org.springframework.test.context.transaction.TransactionalTestRunner;
12 import org.springframework.test.context.transaction.TransactionalTestRunner;
13 import org.springframework.test.context.transaction.TransactionalTestRunner;
14 import org.springframework.test.context.transaction.TransactionalTestRunner;
15 import org.springframework.transaction.annotation.Transactional;
16
17 import com.myapp.config.AppConfig;
18 import com.myapp.config.AppTestConfig;
19 import com.myapp.model.EventControl;
20 import com.myapp.model.common.MyAppType;
21
22 @RunWith(SpringJUnit4ClassRunner.class)

```

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```

23 @SpringApplicationConfiguration(classes = { AppC
24 @TransactionConfiguration(transactionManager = "
25 public class EventControlDaoTxnCommitTest extend
26
27     @Autowired
28     EventControlDao eventControlDao;
29
30     private static final String USER_ID = "AYYYY
31     private static final String EVENT_DATE = "20
32
33
34     @BeforeTransaction
35     public void beforeTransaction() {
36         testEventControl(0);
37     }
38
39     @AfterTransaction
40     public void afterTransaction() {
41         testEventControl(1);
42     }
43
44     @Test
45     @Transactional
46     public void testEventControlCommit() {
47         eventControlDao.create(getFsEventControl
48     }
49
50     private void testEventControl(int count) {
51         List<EventControl> listEventControl = ev
52         Assert.assertEquals(count, listEventCont
53     }
54
55     private EventControl getFsEventControl(Strin
56     EventControl fsEventControl = new EventC
57     fsEventControl.setEventType(EventControl
58     fsEventControl.setEventKey(EventControl.
59     fsEventControl.setEventValue1(client);
60     fsEventControl.setEventValue2(EVENT_DATE
61     return fsEventControl;
62     }
63
64     private EventControl getPendingEventControl(
65     EventControl ec = new EventControl();
66     ec.setEventType(EventControl.EventType.B
67     ec.setEventValue1(USER_ID);
68     ec.setEventValue2(EVENT_DATE);
69     ec.setEventStatus(EventControl.EventStat
70     return ec;
71     }
72 }

```

Transaction...

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Arulkumaran Kumaraswamipillai

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