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07: Debugging Spring Transaction Management

Posted on October 27, 2015 by Arulkumaran Kumaraswamipillai

Never just trust that adding @Transactional annotation is going to create a transactional boundary for your service layer.

EventRestController –> **EventMergeProcesorImpl** –> **EventControlDAOImpl**

The @Transactional annotations added to "public" methods of the EventMergeProcesorImpl. Spring creates a proxy around the "EventMergeProcesorImpl". So, here are a few tips to debug

#1. Run your application in Debug mode with breakpoints in your IDE, and check if a proxy is wrapped around the "EventMergeProcesorImpl".
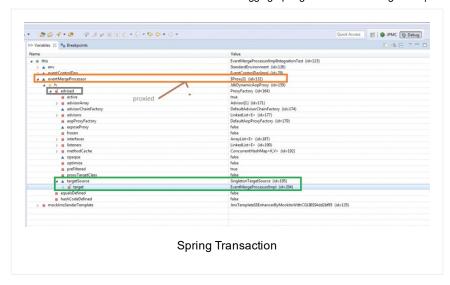
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Spring Transaction

If it is not **proxied**, then it will be a good chance that EventMergeProcessor is not annotated with "@Autowired" or "@Inject".

Wrong

```
1   //......
2   @Component
3   public class EventRestController {
4
5       private EventMergeProcessor eventMergeProces
6
7       public EventRestController(EventMergeProcess
8           eventMergeProcessor = new EventMergeProc
9       }
10
11      //.....
12  }
```

FIX

```
1   //......
2   @Component
3   public class EventRestController {
4
5       @Autowired
6       private EventMergeProcessor eventMergeProces
7
8       @Autowired
9       public EventRestController(EventMergeProcess
10          eventMergeProcessor = new EventMergeProc
11      }
12
13      //.....
14  }
```

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#2. Enable debugging with the following lines to the "logback.xml"

```
1
2     <root level="TRACE">
3         <appender-ref ref="CONSOLE"/>
4         <appender-ref ref="FILE"/>
5     </root>
6
7     <logger name="org.springframework.transaction
8
```

This will output transactional info as shown below to the logs

```
1
2
3   13:31:18.071 TRACE [main] o.s.t.i.TransactionInt
4   13:31:18.071 TRACE [main] o.s.t.i.TransactionInt
5   13:31:18.071 TRACE [main] o.s.t.s.TransactionSyn
6   13:31:18.071 TRACE [main] o.s.t.s.TransactionSyn
7   13:31:18.149 DEBUG [main] o.s.t.a.AnnotationTran
8   //........
9   //......
10
```

#3. Key points to remember are

1) @Transactional, @Autowired, and @EnableTransactionManagement annotations need to be present.

```
1
2   @Configuration
3   @EnableTransactionManagement
4   public class AppConfig {
5
6       @Bean
7       public JdbcTemplate jdbcTemplate() {
8           return new JdbcTemplate(datasource());
9       }
10
11      //.....
12  }
```

```
1   //......
2   @Component
3   public class EventRestController {
4
5       @Autowired
6       private EventMergeProcessor eventMergeProces
7
```

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```
 8      public EventRestController(EventMergeProcess
 9          eventMergeProcessor = new EventMergeProc
10      }
11
12      //.....
13  }
```

```
 1  //......
 2  @Component
 3  public class EventMergeProcessorImpl implements
 4
 5      @Autowired
 6      public EventMergeProcessorImpl(EventControlD
 7          eventMergeProcessor = new EventMergeProc
 8      }
 9
10      @Transactional
11      public void processRequest(){
12          //......
13      }
14
15      //.....
16  }
```

2) Write integration tests to test commit & roll-back scenarios.

3) Ensure that the "EventMergeProcessorImpl" is proxied by Spring.

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