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jBehave with tabular story data

Posted on [May 17, 2015](#) by [Arulkumaran Kumaraswamipillai](#)

This extends the previous [jBehave](#) and [BDD](#) tutorials. The story is in a tabular format as shown below. This is an industrial strength example.

Step 1: The story file which supplies a list of transactions as an input (i.e. via **Given**) and validates against a list of transactions that are supplied as shown below in **Then**.

```

1 Narrative: As a txns processor verify the number
2
3 Scenario: verify transactions
4
5 Given a list of transactions
6 txnCode|txnDate|txnAmount
7 A123|10/07/2005|500.00
8 A124|10/25/2005|500.00
9 A125|10/28/2005|500.00
10 A126|10/29/2005|500.00
11 A127|10/15/2005|500.00
12 A128|10/12/2005|500.00
13
14 When processTxn method is fired with accountCd =
15
16 Then I expect to receive 5 transactions
17 Then I expect transactions to have
18 TransactionType|TransactionSubType|OtherIncomeEx
19 Income|InterestRevenue|NotApplicable
20 Income|InterestRevenue|NotApplicable

```

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```

21 Expense|OtherIncome|NotApplicable
22 EXPENSE|InterestRevenue|NotApplicable
23 INCOME|NotApplicable|NotApplicable
24

```

Step 2: Map the story to step class

TransactionProcessorStep as shown below. Pay attention to the ExamplesTable class provided by jBehave library.

```

1
2 //...
3
4 import org.drools.runtime.StatelessKnowledgeSes
5 import org.hamcrest.MatcherAssert;
6 import org.hamcrest.Matchers;
7 import org.jbehave.core.annotations.Given;
8 import org.jbehave.core.annotations.Then;
9 import org.jbehave.core.annotations.When;
10 import org.jbehave.core.model.ExamplesTable;
11 import org.joda.time.DateTime;
12 import org.mockito.Mockito;
13 import org.springframework.stereotype.Component
14
15 @Component
16 public class TransactionProcessorStep
17 {
18
19     //...
20     //input
21     List<Transaction> transactionsList = Col
22     //output
23     List<Transaction> result;
24
25     @Given("a list of transactions $cashTransac
26     public void cashTxns(ExamplesTable cashTran
27     {
28         this.transactionsList = toTransactionsL
29     }
30
31     @When("processTxn method is fired with account
32     public void processTransaction(String accou
33     {
34
35         try
36         {
37             //logic to process actual method an
38             result = ...
39         }
40         catch (Exception e)
41         {
42             throw new RuntimeException(e);
43         }
44     }
45
46 }
47
48 @Then("I expect to receive $count transacti
49 public void verify(int count)
50 {
51     try
52     {

```

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```

53         MatcherAssert.assertThat(count, Mat
54     }
55     }
56     catch (Exception e)
57     {
58         throw new RuntimeException(e);
59     }
60 }
61
62 @Then("I expect transactions to have $transact
63 public void verify2(ExamplesTable transacti
64 {
65     try
66     {
67
68         int i = 0;
69         for (Map<String, String> row
70         {
71
72             Transaction transaction = resul
73
74             String txnType = row.get("Trans
75             MatcherAssert.assertThat(transa
76                 Matchers.equalTo(txnTyp
77
78             String analysisCode = row.get("Transac
79             MatcherAssert.assertThat(transa
80                 Matchers.equalTo(analys
81
82             String otherIncomeExpType = row
83             MatcherAssert.assertThat(transa
84                 Matchers.equalTo(otherI
85
86             ++i;
87         }
88     }
89 }
90 }
91 catch (Exception e)
92 {
93     throw new RuntimeException(e);
94 }
95 }
96
97 private List<Transaction> toTransactions
98 {
99     List<Transaction> ctList = new Ar
100     for (Map<String, String> row : ta
101     {
102
103         //txnCode|txndate|txnAmount
104         String txnCode = row.get("analysisC
105         String txndate = row.get("txndate")
106         String txnAmount = row.get("txnAmou
107
108         Transaction ct = new Transaction();
109         ct.setAnalysisCd(txnCode);
110
111         SimpleDateFormat sdf = new SimpleDa
112         try
113         {
114             ct.setTxnDt(sdf.parse(txndate))
115         }
116         catch (ParseException e)
117         {
118             throw new RuntimeException(e);

```

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```
119         }
120         ct.setTxnAmount(new BigDecimal(txnA
121
122         ctList.add(ct);
123     }
124     return ctList;
125 }
126
127
```

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