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Java BDD (Behavior Driven Development) interview Q&A

Posted on [September 9, 2014](#) by [Arulkumaran Kumaraswamipillai](#) — [No Comments](#) ↓

Q1. What is BDD?

A1. BDD is principally an idea about how software development should be managed by both business interests and technical insight. Test-driven development focuses on the developer's opinion on how parts of the software should work. Behavior-driven development focuses on the users' opinion on how they want your application to behave. So, when you start writing a test, you need to think about the stories, and each story should cover three things:

Given : an input value of 2

When : you multiply the input with 3

Then : result should be 6

Even you write unit tests as part of **TDD** (Test Driven Development) or without TDD, you need to think about Given ... When ... Then ...

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Here is a simple example using the jBehave framework in Java.

Step 1: Maven **pom.xml** file on jBehave dependency

```

1 <dependency>
2   <groupId>org.jbehave</groupId>
3   <artifactId>jbehave-core</artifactId>
4   <version>3.8</version>
5 </dependency>
6

```

Step 2: Define the story in plain English that business users and testers can understand using Given... When Then... style. The math.story file under src/main/resources/jbehave folder.

```

1 Scenario: 2 squared
2
3 Given a variable input with value 2
4 When I multiply input by 2
5 Then result should equal 4
6
7 Scenario: 3 squared
8
9 Given a variable input with value 3
10 When I multiply input by 3
11 Then result should equal 9
12
13















```

Step 3: Map the above scenarios based stories to Java equivalent.

```
















1 import org.jbehave.core.annotations.Given;
2 import org.jbehave.core.annotations.Named;
3 import org.jbehave.core.annotations.Then;
4 import org.jbehave.core.annotations.When;
5 import org.jbehave.core.steps.Steps;
6
7 public class MathSteps extends Steps
8 {
9     private int input;
10    private int result;
11
12    @Given("a variable input with value $value")
13    public void givenInputValue(@Named("value")
14    {
15        input = value;
16    }
17
18    @When("I multiply input by $value")

```

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```

19     public void whenImultiplyInputBy(@Named("val
20     {
21         result = input * value;
22     }
23
24     @Then("result should equal $value")
25     public void thenInputshouldBe(@Named("value"
26     {
27         if (value != result)
28             throw new RuntimeException("result i
29     }
30 }

```

Step 4: Write a main class to execute the scenarios.

```

1 import java.util.Arrays;
2 import java.util.List;
3
4 import org.jbehave.core.embedder.Embedder;
5
6 public class JBehaveTest
7 {
8     private static Embedder embedder = new Embed
9     private static List<String> storyPaths = Arr
10         .asList("jbehave/math.story");
11
12     public static void main(String[] args)
13     {
14         embedder.candidateSteps().add(new MathSt
15         try
16         {
17             embedder.runStoriesAsPaths(storyPath
18         }
19         catch (Exception e)
20         {
21             e.printStackTrace();
22         }
23     }
24 }
25 }
26

```

if modify the **math.story** file to have an error for the second scenario where 3 * 3 resulting in 10, you will get a test failure.

```

1
2 Scenario: 2 squared
3
4 Given a variable input with value 2
5 When I multiply input by 2
6 Then result should equal 4
7
8 Scenario: 3 squared
9
10 Given a variable input with value 3
11 When I multiply input by 3
12 Then result should equal 10
13

```

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Run it again with the change, and you will get an error as shown below for the second scenario.

```
1
2 Processing system properties {}
3 Using controls EmbedderControls[batch=false,skip
4 Running story jbehave/math.story
5 Generating reports view to 'C:\projects\my-app-p
6 Reports view generated with 0 stories (of which
7 org.jbehave.core.embedder.Embedder$RunningStorie
8 jbehave/math.story: org.jbehave.core.embedder.St
9 at org.jbehave.core.embedder.Embedder$ThrowingR
10 at org.jbehave.core.embedder.Embedder.handleFai
11 at org.jbehave.core.embedder.Embedder.runStorie
12 at com.mycompany.jbehave.JBehaveTest.main(JBeha
13
14
```

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