

Formulation Document Examples With GivenWhenThen BDD: A Comprehensive Guide

Have you ever come across the term GivenWhenThen (GWT) while exploring software development methodologies? If you're a developer or have some experience in software testing, chances are it's not something entirely unknown to you. GWT is a technique used in Behavior-Driven Development (BDD) to formulate test scenarios in a structured and easily understandable manner for all stakeholders involved in the software development process.

In this article, we will delve into the world of Formulation Document Examples with GivenWhenThen BDD. We'll explore the significance of GWT in BDD, understand the structure of a Formulation Document, and provide you with some real-world examples to help you grasp the concept better. So, let's get started!

What is GivenWhenThen (GWT) and why is it important in BDD?

GivenWhenThen (GWT) is a pattern used in Behavior-Driven Development (BDD) to define the structure of test cases or scenarios. The key idea behind GWT is to break down complex scenarios into simple, concise steps that are easy to understand for all stakeholders involved in the software development process.

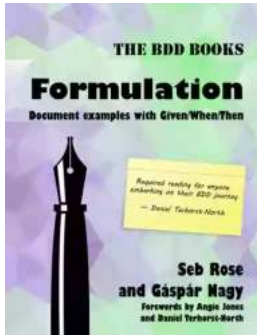
Formulation: Document examples with Given/When/Then (BDD Books Book 2)

by Seb Rose(Kindle Edition)

★★★★☆ 4.7 out of 5

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Enhanced typesetting: Enabled
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By using GWT, developers, testers, product owners, and other team members can collaborate effectively and gain a clear understanding of the expected behavior of the system under test. It bridges the gap between technical and non-technical stakeholders, ensuring that everyone is on the same page.

The GWT pattern consists of three essential parts: Given, When, and Then. Each part has a specific purpose:

- **Given:** This part describes the initial state or pre-condition required for the scenario to be executed.
- **When:** This part defines the action or event that triggers the scenario.
- **Then:** This part defines the expected outcome or behavior of the system after the action or event.

Let's understand this better with an example:

```
<strong>Given</strong> a user is on the login page <strong>When</s
```

In this example, the GWT pattern is used to describe a basic login functionality. By breaking down the scenario into these three parts, it becomes easier for all stakeholders to grasp the intent of the test case.

The Structure of a Formulation Document

Formulation Document is a document that holds all the test cases or scenarios defined using the GWT pattern. It provides a structured approach to define and organize test cases effectively. Let's take a look at the structure of a Formulation Document:

1. Feature Description

The Feature Description section provides an overview of the functionality or feature being tested. It clearly defines what the feature is all about and what its purpose is. This section helps in setting the context for the test cases.

2. Scenario Outline

The Scenario Outline section includes a list of scenarios that will be tested for the given feature. Each scenario consists of multiple steps formulated using the GivenWhenThen pattern. The scenarios should cover various possible scenarios, including both positive and negative test cases.

3. Examples Table

The Examples Table forms an integral part of the Formulation Document. It provides a way to define multiple test case variations for a single scenario. The table consists of columns representing different variables or parameters associated with the scenario. Each row in the table represents a unique combination of values for those variables. This allows you to test different permutations and combinations of inputs.

Now that we have a clear understanding of the structure of a Formulation Document, let's explore some real-world examples.

Real-World Examples of Formulation Documents Using GivenWhenThen BDD

Example 1: Testing a Registration Page

```
<strong>Feature Description:</strong> As a user, I want to be able
```

Example 2: Testing a Shopping Cart

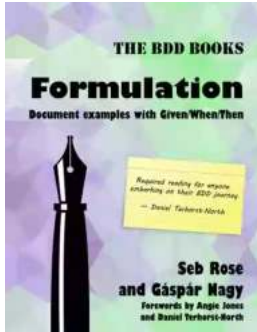
```
<strong>Feature Description:</strong> As a customer, I want to be
```

Formulation Document Examples with GivenWhenThen BDD provide a structured approach to define and organize test cases or scenarios. By following the GWT pattern, you can break down complex scenarios into simple, concise steps that are easily understandable for all stakeholders.

In this article, we explored the significance of GWT in BDD and discussed the structure of a Formulation Document. We also provided you with real-world examples to give you a better understanding of how to create effective Formulation Documents using GivenWhenThen BDD.

By utilizing this approach, you can enhance collaboration, improve communication, and ensure a better understanding of the expected behavior of the system under test. So, why not give it a try in your next software development project?

Remember, GivenWhenThen is not just another testing technique; it's a way to bridge the gap between technical and non-technical stakeholders, leading to improved software quality and customer satisfaction.



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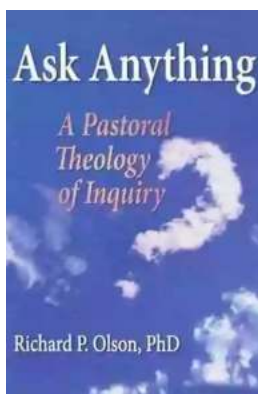


Written by the creator of SpecFlow and the author of The Cucumber for Java Book, this book gives the reader the inside information on how to effectively formulate concrete examples (generated during the discovery phase) as business-readable, Gherkin scenarios - the industry leading Behaviour Driven Development (BDD) specification syntax. This practical guide explores the practices and principles for writing better scenarios (using Given/When/Then), by following a team as they create living documentation for a product that they are enhancing.

This book is written for everyone involved in the specification and delivery of software (including product owners, business analysts, developers and testers). The book describes how all stakeholders need to be involved in the creation of a product's specification. How you get involved will depend on your skills, your

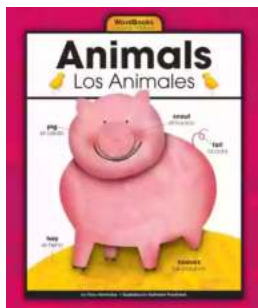
other time commitments, and a host of other factors - but the involvement of all concerned is essential. So, whether you come up with the words, do the typing, or provide constructive feedback, you will find this book indispensable.

This is the second in the BDD Books series that will guide you through the entire development process, including specific technical practices needed to successfully drive development using collaboratively-authored specifications and living documentation.



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