BDD In Action: Behavior-driven Development For The Whole Software Lifecycle
Synopsis

Summary
BDD in Action teaches you the Behavior-Driven Development model and shows you how to integrate it into your existing development process. First you’ll learn how to apply BDD to requirements analysis to define features that focus your development efforts on underlying business goals. Then, you’ll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you’ll apply BDD principles at the coding level to write more maintainable and better documented code.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology

You can’t write good software if you don’t understand what it’s supposed to do. Behavior-Driven Development (BDD) encourages teams to use conversation and concrete examples to build up a shared understanding of how an application should work and which features really matter. With an emerging body of best practices and sophisticated new tools that assist in requirement analysis and test automation, BDD has become a hot, mainstream practice.

About the Book

BDD in Action teaches you BDD principles and practices and shows you how to integrate them into your existing development process, no matter what language you use. First, you’ll apply BDD to requirements analysis so you can focus your development efforts on underlying business goals. Then, you’ll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you’ll apply BDD principles at the coding level to write more maintainable and better documented code. No prior experience with BDD is required.

What’s Inside

- BDD theory and practice
- How BDD will affect your team
- BDD for acceptance, integration, and unit testing
- Examples in Java, .NET, JavaScript, and more
- Reporting and living documentation

About the Author

John Ferguson Smart is a specialist in BDD, automated testing, and software lifecycle development optimization.

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Book Information

Paperback: 384 pages
I am a huge fan of Manning books and have a library of several purchased books. Behavior-driven development was developed by Dan North as a response to the issues encountered teaching test-driven development to answer the following questions:* Where to start in the process* What to test and what not to test* How much to test in one go* What to call the tests* How to understand why a test failsThe traditional development process provides many opportunities for misunderstandings and miscommunication. BDD in action presents the process how software development should be managed by both business interests and technical insight. Behavior-Driven Development (BDD) encourages teams to use conversation and concrete examples to build up a shared understanding of how an application should work and which features really matter. BDD in Action is a great introduction to Behavior Driven Development.This is what I liked about the book:* Presentation of Behavior Driven Development theory with real world practical approach to make readers comfortable and have a quick grasp on the subject* Book does a good job defining the BDD principles and practices. The books shows you how to integrate them into your existing development process* How to use BDD for acceptance, integration, and unit testing* The book is filled with numerous examples of BDD tools and their usage for multiple platforms. For example The book covers automating scenarios using JBehave in Java, Behave in Python, SpecFlow in .Net, and Cucumber.js in Javascript.

The software industry is still very young and there’s extensive room for maturity and improvement.
Behavior-driven development (BDD) is a software practice that has the potential to yank software development out of its adolescence. In order to help teams produce software with greater value, faster as a reviewer of BDD in Action I want teams to read BDD in Action to learn what behavior-driven development (BDD) is and how to put it into practice. BDD in Action provides a comprehensive, platform-agnostic introduction to behavior-driven development (BDD). The content is tailored to all "three amigos" and is therefore an essential resource for the whole team. More than just an introduction, it helps you put BDD into practice with recommendations from a specialist in the field. The book starts off with a high-level view of the BDD world, explaining the motivations and origins of BDD and how it fits with other approaches to software development. Several useful diagrams are presented in Part 1 that you'll revisit throughout the book as you progress along the BDD spectrum from business goals down to acceptance criteria. The high-level discussion of BDD quickly transitions into an example of BDD in practice, allowing you to see where you are headed in this book. Part 2 provides a daily workbook for BDD, which is, in my opinion, the most valuable content in the book. In this part, you learn how to discover and define the requirements for your software applications. Several chapters are dedicated to explaining each level of requirement, ranging from the vision statement to the business goals to capabilities, features and, finally, scenarios.

BDD In Action kicks off with an in-depth explanation of what BDD is and why it is important before a good end-to-end example. One of the highlights of the book for me was chapter 3 which has some good coverage of different techniques for requirements analysis. Whilst it could be argued that these are not really BDD, they are included as good examples on how to ensure you are working on requirements that are adding business value. The approaches include Feature Injection, Impact Mapping and the Purpose-Based Alignment Model as well as Real Options and Deliberate Discovery. John has always extended how I define the core roles on the development team (the three amigos) and this is described within the book as well. The second section of the book explains requirements gathering, through to specifications and then basic automation of a DSL at the scenario level. It seems to imply that the tester should be able to write the executable specification and the base automation, although this does not match my experience of most testers in the field. Section three of the book covers the coding aspects of BDD, including the automation of tests at the UI level as well as the unit testing level. It goes into a fair amount of detail on how different tools work in different languages as well as a fairly comprehensive overview of TDD. The final section of the book introduces living documentation, mainly using tools like Thucydides as well as...
how BDD fits into the continuous delivery world. The book is full of diagrams as well as comprehensive code examples that are well explained and relevant. One of the main advantages of this book is that it is not aimed at any tool — in fact it covers a number of tools and languages in a reasonable amount of detail.

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