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Testing With F#



Synopsis

Deliver high-quality, bug-free applications by testing them with efficient and expressive functional programming About This Book Maximize the productivity of your code using the language features of F# Leverage tools such as FsUnit, FsCheck, Foq, and TickSpec to run tests both inside and outside your development environment A hands-on guide that covers the complete testing process of F# applications Who This Book Is For If you are a developer who wants to test applications using F#, this is the book for you. Basic experience of testing and intermediate experience of functional programming in F# is expected. What You Will Learn Set up a test environment in your code base Write unit tests, integration tests, and functional tests for F# applications Leverage tools such as FsUnit, Foq, Canopy, and TickSpec to run tests both inside and outside your development environment Maximize the productivity of your test code using the language features of F# Extract dependencies to databases, web services, and other IO bound operations Test your applications using executable specifications on a web browser Discover the best practices for developing a sustainable test suite In Detail Starting with an introduction to the concepts behind test automation, you will learn how to set up your test environment for unit testing and how to execute your test suite within and outside of Visual Studio. Using different test frameworks as MSTest, NUnit, and xUnit, you will learn how to write tests in isolation, create test doubles with Foq, and write expressive assertions with FsUnit. You will learn techniques used to mock database contexts, test stored procedures, use migrations to test databases in isolation, control a web browser with Canopy, and test web services with F# interactive. You will learn how these techniques apply to Agile principles and discover how testing fits into your project.

Book Information

Paperback: 282 pages

Publisher: Packt Publishing - ebooks Account (February 23, 2015)

Language: English

ISBN-10: 1784391239

ISBN-13: 978-1784391232

Product Dimensions: 7.5 x 0.6 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 3.7 out of 5 stars [See all reviews](#) (3 customer reviews)

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Technology > Programming > Software Design, Testing & Engineering > Testing #8466 inÂ Books
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Customer Reviews

Great book. It provides a good introduction to software testing in general - useful as I had to recently step in and lead a group of end user testers for a few months - and a great introduction to automated software testing using F# and the readily available test frameworks ie NUnit, xUnit and MSTest, . Don't forget to get the bonus chapter on testing with FsCheck. btw - it's also a great intro to F# programming in general. Really good book.

This book gives an overview of how to do testing with F# using various testing frameworks. Then gives an overview of various testing methodologies and strategies. This is occasionally interspersed with short rants and "war stories" by the author. Given the price it is ok but I expected more F#, more depth, and less "fluff".

I believe this is a very interesting book for all people who want to start their adventure with testing using F# and don't know how to do that. The book starts with describing testing as an activity, gradually introducing F# and showing how to configure test environment. It goes through different types of tests: unit, integration and functional as well as it points out test smells and commandments of test automation. At the beginning the book starts with basics going into more details as you go.

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