Jasmine JavaScript Testing

By Paulo Ragonha

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If you want to take your JavaScript coding to a new level of reliability and proficiency, this book is for you. Discover how to use Jasmine for unit testing whilst learning best practice for the whole JavaScript universe.

Overview

- Learn the power of test-driven development while creating a fully-featured web application
- Understand the best practices for modularization and code organization while putting your application to scale
- Leverage the power of frameworks such as BackboneJS and jQuery while maintaining the code quality
- Automate everything from spec execution to build; leave repetition to the monkeys

In Detail

From a little renegade scripting language to the de facto standard platform of today, JavaScript has become a universal language available in the widest range of devices; it is truly the 'write once, run everywhere' language. However, as JavaScript applications become more complicated, testing and applying sustainable software engineering practices also become mandatory.

Jasmine JavaScript Testing is a practical guide to a more sustainable JavaScript development process. You will learn by example how to drive the development of a web application using tests and best practices.

This book is about becoming a better JavaScript developer. So, throughout the chapters, you will not only learn about writing tests, but also about the best practices for writing software in the JavaScript language. This book is about acknowledging JavaScript as a real platform for application development and leveraging all of its potential. You will also learn about tooling and automation and how to make your life easier and more productive.

You will learn how to create a sustainable codebase with the help of Jasmine. We will take a look at integrated testing (with a backend NodeJS server) and how

you can speed this process up by faking AJAX requests. As you progress through the book, you will learn about the challenges of testing an application built on top of a framework and how you can prevent your application from suffering from dependency management hell. Also, since your applications need to get into production, you will learn about optimizing the code to reduce the number of requests the browser needs to make while loading your application.

With this book, you will learn everything you need to know to become a real professional in the ever-demanding JavaScript universe.

What you will learn from this book

- Drive your application development entirely by tests
- Organize your application code in modules with RequireJS
- Create a fully-tested jQuery plugin
- Solve problems and learn best practices for asynchronous testing
- Use Stubs and Spies to perform quick unit testing
- Test-drive a BackboneJS application
- Optimize your JavaScript code to production
- Master the power of tooling and automation with GruntJS
- Run your tests on the cloud with Travis-CI

Approach

The book uses a concise, to-the-point approach to help developers understand and use the power of Jasmine to create better and more maintainable codebases.

Who this book is written for

This book is a must-have guide for web developers who are new to the concept of unit testing. It's assumed that you have a basic knowledge of JavaScript and HTML.

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Editorial Review

About the Author

Paulo Ragonha

Paulo Ragonha is a software engineer. He loves web development for the opportunities that it carries; "to be able to craft a piece of software that can be instantly accessible by anyone" (with internet connection, of course).

In his early days of software development, he was mostly involved in game development and Java. But since his discovery of Ruby and JavaScript, he has worked uniquely on web applications.

His last three projects were big JavaScript applications, developed entirely driven by tests and with amazing tooling support.

He has an amazing wife that he loves very much, lives in the beautiful Florianópolis, a coast city in the south of Brazil. He is a casual speaker, a biker, a runner, and a hobbyist photographer (he has earned an actual award taking pictures).

Users Review

From reader reviews:

Eula Hunter:

Reading a publication tends to be new life style on this era globalization. With reading you can get a lot of information that may give you benefit in your life. Together with book everyone in this world may share their idea. Books can also inspire a lot of people. Many author can inspire their own reader with their story or their experience. Not only the storyline that share in the textbooks. But also they write about the ability about something that you need example. How to get the good score toefl, or how to teach your children, there are many kinds of book that exist now. The authors in this world always try to improve their skill in writing, they also doing some investigation before they write on their book. One of them is this Jasmine JavaScript Testing.

Edith Stewart:

The reason? Because this Jasmine JavaScript Testing is an unordinary book that the inside of the reserve waiting for you to snap this but latter it will shock you with the secret that inside. Reading this book alongside it was fantastic author who else write the book in such awesome way makes the content inside easier to understand, entertaining approach but still convey the meaning thoroughly. So , it is good for you for not hesitating having this any longer or you going to regret it. This unique book will give you a lot of positive aspects than the other book have such as help improving your proficiency and your critical thinking approach. So , still want to hold up having that book? If I have been you I will go to the guide store hurriedly.

Robin Adams:

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Stephanie Carter:

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