

# Learn To Build And Deploy Robust Javascript Applications Using Cucumber Mocha

Are you a developer looking to build robust Javascript applications? Look no further! In this article, we will dive into the world of Cucumber Mocha and learn how it can help you build and deploy powerful applications.

## What is Cucumber Mocha?

Cucumber Mocha is a powerful testing framework for running automated Javascript tests. It combines the popular Cucumber framework, which allows developers to write tests in a natural language format, with Mocha, a flexible and feature-rich testing library for Node.js and the browser. By utilizing these two tools together, developers can easily create and run tests for their Javascript applications.

## Why should you use Cucumber Mocha?

Cucumber Mocha offers several benefits for developers:



## Building Enterprise JavaScript Applications: Learn to build and deploy robust JavaScript applications using Cucumber, Mocha, Jenkins, Docker, and Kubernetes

by Daniel Li(1st Edition, Kindle Edition)

★★★★☆ 4.5 out of 5

Language : English  
File size : 31310 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 766 pages



- **Readability:** Cucumber Mocha allows tests to be written in a natural language format, making them easily understandable for both developers and non-developers. This promotes collaboration and ensures that everyone on the team understands the purpose and functionality of the tests.
- **Flexibility:** With Mocha as its foundation, Cucumber Mocha provides developers with a wide range of features and functionalities. From running tests in parallel to handling asynchronous code, Mocha offers powerful capabilities that can be easily leveraged within the Cucumber framework.
- **Integration:** Cucumber Mocha integrates seamlessly with other popular testing tools, such as Chai for assertions and Sinon for mocking and stubbing. This allows developers to create comprehensive and robust test suites for their applications.
- **Report Generation:** Cucumber Mocha generates detailed reports that provide insights into the test results. These reports can help in identifying any issues and failures, making debugging and troubleshooting easier.

## Getting Started with Cucumber Mocha

To start using Cucumber Mocha, you will need to have Node.js and npm (Node Package Manager) installed on your machine. Once you have them set up, you can follow these steps:

1. Initialize a new Node.js project by running the command: `npm init`
2. Install Cucumber Mocha as a development dependency by running: `npm install cucumber mocha --save-dev`

3. Create a new directory for your Cucumber Mocha tests and initialize a new Cucumber project by running: `npx cypress open`
4. Write your tests using the Cucumber syntax, and save the feature files with the `.feature` extension
5. Write your step definitions using Mocha to define the behavior of each step in your Cucumber tests
6. Run your tests using the command: `npm test`

By following these steps, you will be able to build and run your own tests using Cucumber Mocha.

## Advanced Features of Cucumber Mocha

Cucumber Mocha offers various advanced features that can enhance your testing experience:

- **Tags:** You can add tags to your feature files and run specific subsets of tests based on these tags. This allows for better test organization and selective execution.
- **Data-driven Testing:** Cucumber Mocha supports data-driven testing, allowing you to run the same test scenario with different input data. This helps in testing different combinations and variations of your application.
- **Test Hooks:** Mocha provides hooks, such as `before` and `after`, that allow you to perform setup and teardown actions before and after each test or test suite. This ensures a clean and isolated testing environment.
- **Parallel Testing:** Cucumber Mocha can be configured to run tests in parallel, utilizing the full potential of your machine's resources. This can significantly speed up your test execution time.

Cucumber Mocha is a powerful testing framework that enables developers to build and deploy robust Javascript applications. By combining the natural language capabilities of Cucumber with the flexibility of Mocha, developers can create comprehensive test suites that ensure the quality and reliability of their applications. With its easy setup process and advanced features, Cucumber Mocha is a great choice for any developer looking to enhance their testing workflow. So why wait? Start using Cucumber Mocha today and take your Javascript testing to the next level!



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Strengthen your applications by adopting Test-Driven Development (TDD),the OpenAPI Specification, Continuous Integration (CI),and container orchestration.

### **Key Features**

- Create production-grade JavaScript applications from scratch

- Build microservices and deploy them to a Docker container for scaling applications
- Test and deploy your code with confidence using Travis CI

## **Book Description**

With the over-abundance of tools in the JavaScript ecosystem, it's easy to feel lost. Build tools, package managers, loaders, bundlers, linters, compilers, transpilers, typecheckers - how do you make sense of it all?

In this book, we will build a simple API and React application from scratch. We begin by setting up our development environment using Git, yarn, Babel, and ESLint. Then, we will use Express, Elasticsearch and JSON Web Tokens (JWTs) to build a stateless API service. For the front-end, we will use React, Redux, and Webpack.

A central theme in the book is maintaining code quality. As such, we will enforce a Test-Driven Development (TDD) process using Selenium, Cucumber, Mocha, Sinon, and Istanbul. As we progress through the book, the focus will shift towards automation and infrastructure. You will learn to work with Continuous Integration (CI) servers like Jenkins, deploying services inside Docker containers, and run them on Kubernetes.

By following this book, you would gain the skills needed to build robust, production-ready applications.

## **What you will learn**

- Practice Test-Driven Development (TDD) throughout the entire book
- Use Cucumber, Mocha and Selenium to write E2E, integration, unit and UI tests

- Build stateless APIs using Express and Elasticsearch
- Document your API using OpenAPI and Swagger
- Build and bundle front-end applications using React, Redux and Webpack
- Containerize services using Docker
- Deploying scalable microservices using Kubernetes

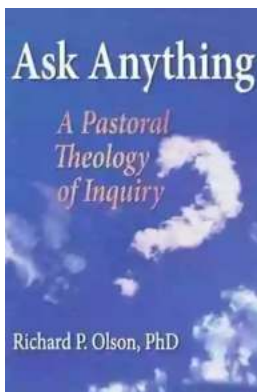
## **Who this book is for**

If you're a JavaScript developer looking to expand your skillset and become a senior JavaScript developer by building production-ready web applications, then this book is for you.

## **Table of Contents**

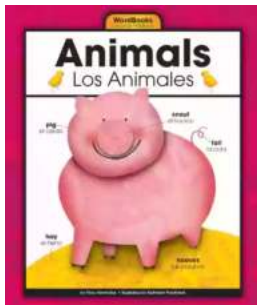
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