

Title (50 chars limit):

Full-Stack Web Development with Django and Angular

Subtitle (100 chars limit):

Build productive and modern web applications with Python and Typescript-backed frameworks

Meta Description (230 chars limit):

Build web applications with Django and Angular, two frameworks written in two of the most important programming languages nowadays and apply best practices to maintain your productivity at the highest level.

Audience (600 chars limit):

If you are an intermediate full stack Developer or Architect or aim to become one and want to improve your skills on two commonly used frameworks for web development, this book is for you. PMs as well as other management professionals and executives would also benefit from reading this book, as they will have a working example with best practices to follow and compare with their projects. Of course, some previous experience in programming with a team is required but not mandatory.

Key features (300 chars limit - 3 points max):

- *Learn two of the most important web technologies nowadays: Django and Angular.*
- *Adopt best practices so that productivity and excellence is never compromised.*
- *Find all the source code used in the book in a git repository for your reference.*

Long description (1350 chars limit):

The book is a great aid to gain confidence using Django and Angular web technologies when selecting them as the technology stack solution for building a REST Based application, and a must-have guide to become a reliable professional because it will help you avoid common problems faced and mistakes made during the full-stack development lifecycle.

Readers will learn to create a backend REST API using the Django framework and a web application using Angular framework.

They will start creating a REST API backend using a Test Driven Development approach, then continue with the frontend in a similar way and in the last chapters they will focus on testing all the code automatically with different technologies.

They will also learn the importance of writing clean code and employing best practices like Test-Driven Development so that productivity is never compromised.

By the end of this book readers will learn how to make a productive web application using the Python and TypeScript programming languages along with the Django and Angular web frameworks, respectively, and aim for usage in continuous integration and continuous deployment practices.

What You Will Learn (560 chars limit - 8 points max):

Short description (350 chars limit):

Readers will learn how to build a productive web application using Python and TypeScript programming languages with Django and Angular web frameworks, respectively, and aim for usage in continuous integration and continuous deployment practices.

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Author bio (700 chars limit):

Ramon Martin Lopez has been working in IT since 1997. He holds a master's degree in physics and is a Senior Full-Stack Software Engineer specializing in Enterprise Web Development. Ramon has worked as a consultant on different projects in various companies across Europe, such as eBay, BMW Group, European Commission, Santander Bank, and Boehringer Ingelheim. Ramon usually offers advice and help, coaching and training development teams to be more productive.

During his lengthy career he has had the chance to test and work with some of the most popular frameworks in web development.

In his spare time, Ramon likes to paint, climb, and learn foreign languages.

Approach (400 chars limit):

Readers will learn to implement a modern web application using some of the latest and most widely used technologies today.

At each step, the reader will learn about the different components and design patterns that make up these frameworks, following best practices in their implementation of the application to ensure a well-structured and testable solution.

Chapter Names (TOC):

1. Overview of Django and Angular
2. Implementing the Backend Data Model and persistence layer with Django Models
3. Exposing the Backend functionality through a REST API
4. Securing the Backend with Authentication and Authorization
5. Implementing the Frontend functionality with Angular Components
6. Connecting the Frontend to the Backend REST API with Angular Services
7. Securing the Frontend with Angular Guards and the User Session
8. Automatically Testing all layers and Security in the Backend
9. Automatically Testing all layers and Security in the Frontend
10. Automatically Testing the whole Application