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Learn Microsoft's new C# language with this highly visual and accessible task-based guide. Task-based, visual, step-by-step guide to learning C#, this is udeal as an introductory guide for beginners, or as a handy reference for more experienced C# programmers. A comprehensive guide to building Ruby on Rails apps that can be sustained for many years. Learn to build Rails-based web applications using all the latest features offered in Rails 5.2. Author Stefan Wintermeyer begins by teaching the basics of Ruby 2.5 before proceeding through all aspects of Rails, utilizing clean, succinct examples – rather than a single large application. This book covers topics including Active Storage, Credentials, Active Record, Scaffolding, REST, Routing, Bundler, Forms, Cookies, and Sessions, all of which are vital for modern Rails web applications. To complement these topics you'll also learn about test-driven development, Action Cable, Active Job, Action Mailer, I18n, Asset Pipeline, and caching. Finally, you'll see a how-to for a production web server with nginx. This complete set of skills will set you up for a future of efficient and elegant Rails coding. What You Will Learn Use the Ruby on Rails web development framework Install and manage the Rails framework Persist data for your web application with Active Record Work with forms Apply a test-driven development approach to your Rails-based web applications Discover many Rails secrets and tips Who This Book Is For Those with at least some prior programming experience. Ruby experience is helpful, but not required. Master powerful new approaches to web architecture, design, and user experience This book presents a pragmatic, problem-driven, user-focused approach to planning, designing, and building dynamic web solutions. You'll learn how to gain maximum value from Domain-Driven Design (DDD), define optimal supporting architecture, and succeed with modern UX-first design approaches. The author guides you through choosing and implementing specific technologies and addresses key user-experience topics, including mobile-friendly and responsive design. You'll learn how to gain more value from existing Microsoft technologies such as ASP.NET MVC and SignalR by using them alongside other technologies such as Bootstrap, AJAX, JSON, and JQuery. By using these techniques and understanding the new ASP.NET Core 1.0, you can quickly build advanced web solutions that solve today's problems and deliver an outstanding user experience. Microsoft MVP Dino Esposito shows you how to: Plan websites and web apps to mirror real-world social and business processes Use DDD to dissect and master the complexity of business domains Use UX-Driven Design to reduce costs and give customers what they want Realistically compare server-side and client-side web paradigms Get started with the new ASP.NET Core 1.0 Simplify modern visual webpage construction with Bootstrap Master practical, efficient techniques for running ASP.NET MVC projects Consider new options for implementing persistence and working with data models Understand Responsive Web Design's pros, cons, and tradeoffs Build truly mobile-friendly, mobile-optimized websites About This Book For experienced developers and solution architects who want to plan and develop web solutions more effectively Assumes basic familiarity with the Microsoft web development stack This book provides a simple and practical way of understanding the essential areas of developing a website. It also provides elementary insights and an overview of the subject that is necessary to understand the world of web technologies. This course covers all that is required to become a good Web Developer from HTML, CSS, Bootstrap, JavaScript and PHP. Web Programming with HTML5, CSS, and JavaScript is written for the undergraduate, client-side web programming course. It covers the three client-side technologies (HTML5, CSS, and JavaScript) in depth, with no dependence on server-side technologies. A comprehensive guide to Python programming for web development using the most popular Python web framework - Django Key Features Learn the fundamentals of programming with Python and building web apps Build web applications from scratch with Django Create real-world RESTful web services with the latest Django framework Book Description If you want to develop complete Python web apps with Django, this Learning Path is for you. It will walk you through Python programming techniques and guide you in implementing them when creating 4 professional Django projects, teaching you how to solve common problems and develop RESTful web services with Django and Python. You will learn how to build a blog application, a social image bookmarking website, an online shop, and an e-learning platform. Learn Web Development with Python will get you started with Python programming techniques, show you how to enhance your applications with AJAX, create RESTful APIs, and set up a production environment for your Django projects. Last but not least, you'll learn the best practices for creating real-world applications. By the end of this Learning Path, you will have a full understanding of how Django works and how to use it to build web applications from scratch. This Learning Path includes content from the following Packt products: Learn Python Programming by Fabrizio Romano Django RESTful Web Services by Gastón C. Hillar Django Design Patterns and Best Practices by Arun Ravindran What you will learn Explore the fundamentals of Python programming with interactive projects Grasp essential coding concepts along with the basics of data structures and control flow Develop RESTful APIs from scratch with Django and the Django REST Framework Create automated tests for RESTful web services Debug, test, and profile RESTful web services with Django and the Django REST Framework Use Django with other technologies such as Redis and Celery Who this book is for If you have little experience in coding or Python and want to learn how to build full-fledged web apps, this Learning Path is for you. No prior experience with RESTful web services, Python, or Django is required, but basic Python programming experience is needed to understand the concepts covered. Develop modern web UIs quickly with server-side Blazor and Blazor WebAssembly Key Features Create and deploy a production-ready Blazor application from start to finish Learn Blazor fundamentals, gain actionable insights, and discover best practices Find out how, when, and why to use server-side Blazor and Blazor WebAssembly Book Description Blazor is an essential tool if you want to build interactive

web apps without JS, but it comes with its own learning curve. Web Development with Blazor will help you overcome most common challenges developers face when getting started with Blazor and teach you the best coding practices. You'll start by learning how to leverage the power of Blazor and explore the full capabilities of both Blazor Server and Blazor WebAssembly. Then you'll move on to the practical part, which is centred around a sample project – a blog engine. This is where you'll apply all your newfound knowledge about creating Blazor Server and Blazor WebAssembly projects, the inner working of Razor syntax, and validating forms, as well as creating your own components. You'll learn all the key concepts involved in web development with Blazor, which you'll also be able to put into practice straight away. By showing you how all the components work together practically, this book will help you avoid some of the common roadblocks that novice Blazor developers face and inspire you to start experimenting with Blazor on your other projects. When you reach the end of this Blazor book, you'll have gained the confidence you need to create and deploy production-ready Blazor applications. What you will learn

Understand the different technologies that can be used with Blazor, such as Blazor Server and Blazor WebAssembly
Find out how to build simple and advanced Blazor components
Explore the differences between Blazor Server and Blazor WebAssembly projects
Discover how Entity Framework works and build a simple API
Get up to speed with components and find out how to create basic and advanced components
Explore existing JavaScript libraries in Blazor
Use techniques to debug your Blazor Server and Blazor WebAssembly applications
Test Blazor components using bUnit

Who this book is for
If you're a .NET web or software developer who wants to build web UIs using C#, then this book is for you. You'll need intermediate-level web-development skills and basic knowledge of C# before you get started; the book will guide you through the rest. Combine the power of Bootstrap 4 and Angular 2 to build cutting-edge web apps that truly stand out from the crowd

About This Book- Updated for the latest releases of Angular and Bootstrap, this book shows you how to build web applications with cutting-edge web technologies- Combine the best of both worlds to build single page apps with elegant user interfaces- Build, develop, and customize your application using Angular and Bootstrap- Packed with tips to help you avoid potential stumbling blocks while developing

Who This Book Is For
Whether you know a little about Bootstrap or Angular or you're a complete beginner, this book will enhance your capabilities in both frameworks and you'll build a fully functional web app. A working knowledge of HTML, CSS, and JavaScript is required to fully get to grips with Bootstrap and Angular.

What You Will Learn- Develop Angular 2 single page applications using an ecosystem of helper tools- Get familiar with Bootstrap's new grid and helper classes- Embrace TypeScript and ECMAScript 2015 to write more maintainable code- Use custom directives for Bootstrap 4 with the ng2-bootstrap library- Understand the component-oriented structure of Angular 2 and its router- Make use of the built-in HTTP library to work with API endpoints- Use observables and streams to manage the app's data and state- Combine Angular 2 and Bootstrap 4 along with Firebase in the development of a solid example

In Detail
Two of the most popular frontend frameworks, Angular and Bootstrap, have undergone a major overhaul to embrace emerging web technologies so that developers can build cutting-edge web applications. Inside this title you'll dive, fingers first, into the basics of both the tools, and once you're familiar with them, you'll move onto Bootstrap's new grid system and Angular's built-in directives. You'll then learn how to format output using Angular's pipes and how to make use of the built-in router to set up routes for all your components. Webpack will be your buddy to wrap up your project. Then, after throwing in some SASS to make things pretty, you'll learn how to validate the forms you've built and debug your application. Finally, you'll go on to learn how to obtain smooth transitioning from Bootstrap to Angular and then how to hook up with a server and use Firebase as the persistence layer. Once you're done with this book, you'll not only have a lovely little e-commerce application running, but you'll also take with you the confidence to innovate and build your own applications with ease.

Style and approach
This practical, step-by-step guide shows you how to think in terms of components and modules and build web apps with Angular and Bootstrap. Starting with building a foundation in Angular and Bootstrap, the book shows you how to combine the two frameworks to build apps that have a strong architecture (Angular) and a clear UI (Bootstrap). Learn how to build dynamic web applications with Express, a key component of the Node/JavaScript development stack. In this hands-on guide, author Ethan Brown teaches you the fundamentals through the development of a fictional application that exposes a public website and a RESTful API. You'll also learn web architecture best practices to help you build single-page, multi-page, and hybrid web apps with Express. Express strikes a balance between a robust framework and no framework at all, allowing you a free hand in your architecture choices. With this book, frontend and backend engineers familiar with JavaScript will discover new ways of looking at web development. Create webpage templating system for rendering dynamic data
Dive into request and response objects, middleware, and URL routing
Simulate a production environment for testing and development
Focus on persistence with document databases, particularly MongoDB
Make your resources available to other programs with RESTful APIs
Build secure apps with authentication, authorization, and HTTPS
Integrate with social media, geolocation, and other third-party services
Implement a plan for launching and maintaining your app
Learn critical debugging skills

This book covers Express 4.0. Build robust modern web applications using .NET 5, Entity Framework Core, and Angular 11

Key Features
Updated with the latest features and additions in ASP.NET Core 5 and Angular 11
Design, build, and deploy a Single Page Application or Progressive Web App
Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security, and deployment

Book Description
Learning full-stack development calls for knowledge of both front-end and back-end web development. ASP.NET Core 5 and Angular, Fourth Edition will enhance your ability to create, debug, and deploy efficient web applications using ASP.NET Core and Angular. This revised edition includes coverage of the Angular routing module, expanded discussion on the Angular CLI, and detailed instructions for deploying apps on Azure, as well as both Windows and Linux. Taking care to explain and challenge design choices made throughout the text, Valerio teaches you how to build a data model with Entity Framework Core, alongside utilizing the Entity Core Fluent API and EntityTypeConfiguration class. You'll learn how to fetch and display data and handle user input with Angular reactive forms and front-end and back-end validators for maximum effect. Later, you will perform advanced debugging and explore the unit testing features provided by xUnit.net (.NET 5) and Jasmine, as well as Karma for Angular. After adding authentication and authorization to your apps, you will explore progressive web applications (PWAs), learning about their technical requirements, testing, and converting SWAs to PWAs. By the end of this book, you will understand how to tie together the front end and back end to build and deploy secure and robust web applications. What you will learn

Implement a web API interface with ASP.NET Core and consume it with Angular using RxJS observables
Set up an SQL database server using a local instance or a cloud data store
Perform C# and TypeScript debugging using Visual Studio 2019
Create TDD and BDD unit tests using xUnit, Jasmine, and Karma
Perform DBMS structured logging using third-party providers such as SeriLog
Deploy web apps to Windows and Linux web servers, or Azure App Service, using IIS, Kestrel, and nginx

Who this book is for
This book is for experienced ASP.NET developers who already possess some familiarity with ASP.NET Core and Angular and are looking to learn how to use them effectively together. The fully documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy to follow. Develop rich and scalable web applications with Node.js, Express.js, and MongoDB

Key Features
Learn the advanced features of Aurelia to build responsive web applications
Write clean, modular, and testable code that will be easy to maintain and evolve
Harness the power of JavaScript on the client and server side to build full-stack applications

Book Description
Hands-On Full Stack Web Development with Aurelia begins with a review of basic JavaScript concepts and the structure of an Aurelia application generated with the Aurelia-CLI tool. You will learn how to create interesting and intuitive application using the Aurelia-Materialize plugin, which implements the material design approach. Once you fully configure a FIFA World Cup 2018 app, you'll start creating the initial components through TDD practices and then develop backend services to process and store all the user data. This book lets you explore the NoSQL model and implement it using one of the most popular NoSQL databases, MongoDB, with some exciting libraries to make the experience effortless. You'll also be able to add some advanced behavior to your components, from managing the lifecycle properly to using dynamic binding, field validations, and the custom service layer. You will integrate your application with Google OAuth Service and learn best practices to secure your applications. Furthermore, you'll write UI Testing scripts to create high-quality Aurelia Apps and explore the most used tools to run end-to-end tests. In the concluding chapters, you'll be able to deploy your application to the Cloud and Docker containers. By the end of this book, you will have learned how to create rich applications using best practices and modern approaches. What you will learn

Employ best practices and modern approaches to create frontend applications
Learn about modern CSS preprocessors and improve the readability of your application
Use the Aurelia framework to create navigable web applications
Write your own tests, making your application secure and fault-tolerant
Create solid RESTful APIs using the microservice architecture
Understand the NoSQL paradigm and get the best performance from your database
Integrate third-party libraries such as Gmail for Single Sign On
Write UI testing scripts and integration tests to build extensible apps

Who this book is for
Hands-On Full Stack Web Development with Aurelia is for you if you are a web or full-stack JavaScript developer who has experience with traditional stacks such as LAMP, MEAN, or MERN and wish to explore the power of Aurelia and new stack with modern web technologies. Unlock the power of the MEAN stack by creating attractive and real-world projects

About This Book
Learn about the different components that comprise a MEAN application to construct a fully functional MEAN application using the best third-party modules
A step-by-step guide to developing the MEAN stack components from scratch to achieve maximum flexibility when building an e-commerce application
Build optimum end-to-end web applications using the MEAN stack

Who This Book Is For
This learning path is for web developers who are experienced in developing applications using JavaScript. This course is for developers who are interested in learning how to build modern and multiple web applications using MongoDB, Express, AngularJS, and Node.js. What You Will Learn
Build modern, end-to-end web applications by employing the full-stack web development solution of MEAN
Connect your Express application to MongoDB and use a Mongoose model and build a complex application from start to finish in MongoDB
Employ AngularJS to build responsive UI components
Implement multiple authentication strategies such as OAuth, JsonWebToken, and Sessions
Enhance your website's usability with social logins such as Facebook, Twitter, and Google
Secure your app by creating SSL certificates and run payment platforms in a live environment
Implement a chat application from scratch using Socket.IO
Create distributed applications and use the power of server-side rendering in your applications
Extend a project with a real-time bidding system using WebSockets

In Detail
The MEAN stack is a collection of the most popular modern tools for web development. This course will help you to build a custom e-commerce app along with several other applications. You will progress to creating several applications with MEAN. The first module in this course will provide you with the skills you need to successfully create, maintain, and test a MEAN application. Starting with MEAN core frameworks, this course will explain each framework key concepts of MongoDB, Express, AngularJS, and Node.js. We will walk through the different tools and frameworks that will help expedite your daily development cycles. After this, the next module will show you how to create your own e-commerce application using the MEAN stack. It takes you step by step through the parallel process of learning and building to develop a production-ready, high-quality e-commerce site from scratch. It also shows you how to manage user authentication and authorization, check multiple payment platforms, add a product search and navigation feature, deploy a production-ready e-commerce site, and finally add your own high-quality feature to the site. The final step in this course will enable you to build a better foundation for your AngularJS apps. You'll learn how to build complex real-life applications with the MEAN stack and a few more advanced projects. You will become familiar with WebSockets, build real-time web applications, create auto-destructing entities, and see how to work with monetary data in Mongo. You will also find out how to a build real-time e-commerce application. This learning path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: MEAN Web Development by Amos Haviv Building an E-Commerce Application with MEAN by Adrian Mejia MEAN Blueprints by Robert Onodi

Style and approach
This course will begin with the introduction to MEAN, gradually progressing with building applications in each framework. Each transition is well explained, and each chapter begins with the required background knowledge. Create and deploy standalone, fully functional, web applications using Quarkus and React

Key Features
Get up and running with web application development speedily using React and Quarkus
Get an overview of how to make a Java backend work seamlessly with a JavaScript frontend
Learn how to deploy your working application to Kubernetes and share it with the world

Book Description
React has established itself as one of the most popular and widely adopted frameworks thanks to its simple yet scalable app development abilities. Quarkus comes across as

a fantastic alternative for backend development by boosting developer productivity with features such as pre-built integrations, application services, and more that bring a new, revolutionary developer experience to Java. To make the best use of both, this hands-on guide will help you get started with Quarkus and React to create and deploy an end-to-end web application. This book is divided into three parts. In the first part, you'll begin with an introduction to Quarkus and its features, learning how to bootstrap a Quarkus project from the ground up to create a tested and secure HTTP server for your backend. The second part focuses on the frontend, showing you how to create a React project from scratch to build the application's user interface and integrate it with the Quarkus backend. The last part guides you through creating cluster configuration manifests and deploying them to Kubernetes as well as other alternatives, such as Fly.io. By the end of this full stack development book, you'll be confident in your skills to combine the robustness of both frameworks to create and deploy standalone, fully functional web applications. What you will learn

- Create a Quarkus project from scratch to gain a basic understanding of its advantages
- Create a persistence layer in a Quarkus application
- Secure your application by adding authentication and authorization features
- Use Quarkus Dev services to implement integration tests with real-world databases
- Start creating a React project from scratch
- Use React Testing Library to test React components
- Identify the most suitable alternatives for deploying your application to the cloud

Who this book is for This book is for backend web developers who have at least basic experience with Java and would like to learn React to build full stack apps by integrating it with a Quarkus-based backend. Frontend web developers with basic JavaScript experience will also find this book useful to learn how to implement a backend in Quarkus and integrate it with their frontend to create full stack web applications. Beginner-level knowledge of Java and JavaScript is recommended, but any developer experienced either with Java or JavaScript should be able to follow the backend and frontend parts easily. Discover how to build full stack web applications with the Raspberry Pi 3

About This Book Leverage JavaScript, HTML5, and Cloud APIs to create visual representations and interactive web pages. Learn to install and use a Node.js-based web framework to develop Raspberry Pi 3-powered web applications. A step-by-step guide that will cover from setting up an embedded system to developing embedded, device-powered interactive web applications. Who This Book Is For This book is aimed at hobbyist, enthusiasts, and developers eager to develop embedded device-powered web applications. Prior programming experience with JavaScript, HTML5, and Node.js will be beneficial. What You Will Learn

- Get up and running with your Raspberry Pi
- Go full stack! Learn about the end-to-end development process for web applications, right from the OS up to the actual HTML web interface
- Discover that JavaScript is one of the fastest growing languages today, and is the only language that can be used both on a browser and server. This book will empower you to develop in a complete JavaScript stack
- See that the IoT is everywhere! Connect your application to the outside world. Make use of sensors in your Raspberry Pi to give your application an edge, and unleash the full power of the Internet of Things
- Build a rich UI with beautiful charts and data visualizations that can run on any browser
- Make your software data-driven. Learn how to utilize SQLite to collect and analyze data from multiple systems

In Detail Modern web technology and portable computing together have enabled huge advances in the Internet of Things (IoT) space, as well as in areas such as machine learning and big data. The Raspberry Pi is a very popular portable computer for running full stack web applications. This book will empower you to master this rapidly evolving technology to develop complex web applications and interfaces. This book starts by familiarizing you with the various components that make up the web development stack and that will integrate into your Raspberry Pi-powered web applications. It also introduces the Raspberry Pi computer and teach you how to get up and running with a brand new one. Next, this book introduces you to the different kinds of sensor you'll use to make your applications; using these skills, you will be able to create full stack web applications and make them available to users via a web interface. Later, this book will also teach you how to build interactive web applications using JavaScript and HTML5 for the visual representation of sensor data. Finally, this book will teach you how to use a SQLite database to store and retrieve sensor data from multiple Raspberry Pi computers. By the end of this book you will be able to create complex full stack web applications on the Raspberry Pi 3 and will have improved your application's performance and usability. Style and approach

- Step-by-step instructions on developing a full stack web application and deploying it to the Cloud.
- From an idea to a prototype - a complete guide for web development with the Django framework

About This Book- Explore the best practices to develop applications of a superior quality with Django framework- Unravel the common problems of web development in Django- This course teaches you major Django functions and will help you improve your skills by developing models, forms, views, and templates- Experience the challenges of working on an end-to-end social network project

Who This Book Is For Web developers who want to use modern Python-based web frameworks like Django to build powerful web applications. The course is mostly self-contained and introduces web development with Python to a reader who is familiar with web development concepts and can help him become an expert in this trade. It's intended for all levels of web developers, both students and practitioners from novice to experts.

What You Will Learn- Use Django models to store information in the database and generate queries to access a database across models- Quickly develop web pages to create, read, update, and delete data from the model using class-based views- Generate very maintainable forms with Django- Import data from local sources and external web services as well as exporting your data to third parties- Deep dive into various aspects of Django from models and views to testing and deployment- Familiarize yourself with the various nuances of web development such as browser attacks and databases

In Detail Data science is hot right now, and the need for multitalented developers is greater than ever before. A basic grounding in building apps with a framework as minimalistic, powerful, and easy-to-learn as Django will be a useful skill to launch your career as an entrepreneur or web developer. Django is a web framework that was designed to strike a balance between rapid web development and high performance. This course will take you on a journey to become an efficient web developer thoroughly understanding the key concepts of Django framework. This learning path is divided into three modules. The course begins with basic concepts of the Django framework. The first module, Django Essentials, is like a practical guide, filled with many real-world examples to build highly effective Django web application. After getting familiar with core concepts of Django, it's time to practice your learning from the first module with the help of over 90 recipes available in this module. In the second module, Web Development with Django Cookbook, you'll learn varying complexities to help you create multilingual, responsive, and scalable websites with Django. By the end of this module, you will have a good understanding of the new features added to Django 1.8 and be an expert at web development processes. The next step is to discover the latest best practices and idioms in this rapidly evolving Django framework. This is what you'll be learning in our third module, Django Design Patterns and Best Practices. This module will teach you common design patterns to develop better Django code. By the end of the module, you will be able to leverage the Django framework to develop a fully functional web application with minimal effort.

Style and approach This course includes all the resources that will help you jump into the web development field with Django and learn how to make scalable and robust web applications. The aim is to create a smooth learning path that will teach you how to get started with the powerful Django framework and perform various web development techniques in depth. Through this comprehensive course, you'll learn web development with Django from scratch to finish! Newly revised and updated resource on jQuery's many features and advantages

Web Development with jQuery offers a major update to the popular Beginning JavaScript and CSS Development with jQuery from 2009. More than half of the content is new or updated, and reflects recent innovations with regard to mobile applications, jQuery mobile, and the spectrum of associated plugins. Readers can expect thorough revisions with expanded coverage of events, CSS, AJAX, animation, and drag and drop. New chapters bring developers up to date on popular features like jQuery UI, navigation, tables, interactive capabilities, and audio and video. The book focuses on the new features of jQuery that improve performance and speed, providing huge advantages over traditional JavaScript. Offers new and revised content throughout the book, which focuses on the most recent features and capabilities of jQuery

Serves as an essential instructional tool for web developers with JavaScript and CSS knowledge who want to learn more

Advises readers on how to best use jQuery's powerful, easy-to-use features to create dynamic web pages and web applications

This resource provides a deep understanding of jQuery and sets readers up for successful interactions with all it has to offer. Learn how to create your own websites simply, safely, and quickly with Django by tackling practical activities based on realistic case studies

Key Features

- Understand Django functionality and the Model-View-Template (MVT) paradigm
- Create and iteratively build a book review website, adding features as you build your knowledge
- Explore advanced concepts such as REST API implementation and third-party module integration

Book Description Do you want to develop reliable and secure applications which stand out from the crowd, rather than spending hours on boilerplate code? Then the Django framework is where you should begin. Often referred to as a 'batteries included' web development framework, Django comes with all the core features needed to build a standalone application. Web Development with Django takes this philosophy and equips you with the knowledge and confidence to build real-world applications using Python. Starting with the essential concepts of Django, you'll cover its major features by building a website called Bookr - a repository for book reviews. This end-to-end case study is split into a series of bite-size projects that are presented as exercises and activities, allowing you to challenge yourself in an enjoyable and attainable way. As you progress, you'll learn various practical skills, including how to serve static files to add CSS, JavaScript, and images to your application, how to implement forms to accept user input, and how to manage sessions to ensure a reliable user experience. Throughout this book, you'll cover key daily tasks that are part of the development cycle of a real-world web application. By the end of this book, you'll have the skills and confidence to creatively tackle your own ambitious projects with Django. What you will learn

- Create a new application and add models to describe your data
- Use views and templates to control behavior and appearance
- Implement access control through authentication and permissions
- Develop practical web forms to add features such as file uploads
- Develop a RESTful API and JavaScript code that communicates with it
- Connect to a database such as PostgreSQL

Who this book is for Web Development with Django is designed for programmers who want to gain web development skills with the Django framework. To fully understand the concepts explained in this book, you must have basic knowledge of Python programming, as well as familiarity with JavaScript, HTML, and CSS. Web development is an evolving amalgamation of languages that work in concert to receive, modify, and deliver information between parties using the Internet as a mechanism of delivery. While it is easy to describe conceptually, implementation is accompanied by an overwhelming variety of languages, platforms, templates, frameworks, guidelines, and standards. Navigating a project from concept to completion often requires more than mastery of one or two complementing languages, meaning today's developers need both breadth, and depth, of knowledge to be effective. This text provides the developer with an understanding of the various elements of web development by focusing on the concepts and fundamentals through the examples within, providing a foundation that allows easier transition to other languages and a better understanding of how to approach their work. The reader will be introduced to topics in a manner that follows most project development methods, from initial conceptualization and design through front end development, back end development, and introducing additional concepts like accessibility and security, while focusing on responsive design techniques. Each section of the text includes opportunities to practice the material and assess increased knowledge after examining the topics. Gain a deeper understanding of JavaScript and apply it to build small applications in backend, frontend, and mobile frameworks. Key Features

- Explore the new ES6 syntax, the event loop, and asynchronous programming
- Learn the test-driven development approach when building apps
- Master advanced JavaScript concepts to enhance your web development skill

Book Description If you are looking for a programming language to develop flexible and efficient applications, JavaScript is an obvious choice. Advanced JavaScript is a hands-on guide that takes you through JavaScript and its many features, one step at a time. You'll begin by learning how to use the new JavaScript syntax in ES6, and then work through the many other features that modern JavaScript has to offer. As you progress through the chapters, you'll use asynchronous programming with callbacks and promises, handle browser events, and perform Document Object Model (DOM) manipulation. You'll also explore various methods of testing JavaScript projects. In the concluding chapters, you'll discover functional programming and learn to use it to build your apps. With this book as your guide, you'll also be able to develop APIs using Node.js and Express, create front-ends using React/Redux, and build mobile apps using React/Expo. By the end of Advanced JavaScript, you will have explored the features and benefits of JavaScript to build small applications. What you will learn

- Examine major features in ES6 and implement those features to build applications
- Create promise and callback handlers to work with asynchronous processes
- Develop asynchronous flows using Promise chaining and async/await syntax
- Manipulate the DOM with JavaScript
- Handle JavaScript browser events
- Explore Test Driven Development and build code tests with JavaScript code testing frameworks. List the benefits and drawbacks of functional programming compared to other styles

Construct

applications with the Node.js backend framework and the React frontend framework Who this book is for This book is designed to target anyone who wants to write JavaScript in a professional environment. We expect the audience to have used JavaScript in some capacity and be familiar with the basic syntax. This book would be good for a tech enthusiast wondering when to use generators or how to use Promises and Callbacks effectively, or a novice developer who wants to deepen their knowledge on JavaScript and understand TDD. Bring the frontend and backend together with Vue, Vuex, and Node.js Key Features Construct modern web applications with Node 10, Express.js, MongoDB, and Vue Leverage the latest web standards to increase code performance, readability, and cross-compatibility Harness the power of the JavaScript ecosystem to effectively run, build, and test your full stack applications Book Description Isomorphic JavaScript was the buzzword of the year 2017, allowing developers to utilize a single language throughout their web development stack and build cost-effective and scalable applications. MEVN is a one such modern web development stack consisting of web applications such as MongoDB, Express.js, Vue.js, and Node.js. Hands-On Full-Stack Web Development with Vue.js 2 and Node.js leverages the harmony of these technologies to help you create full-stack web applications. Starting with the core frameworks, this example-based guide explains all the key concepts of frameworks, how to set them up properly, and how to use popular modules to connect them together and make them work cohesively. You will learn all this with the help of real-world examples. In addition to this, you will be able to scaffold web application architecture, add an authentication layer, and develop the MVC structure to support the development of your application. You'll explore how to create data models for your applications and then write REST APIs by exposing your data model to your application. Solely orientated towards building a full, end-to-end application using the MEVN stack, this book will help you understand how your application development grows. What you will learn Build an application with Express.js Create schemas using Mongoose Develop a single-page application using Vue.js and Express.js Create RESTful APIs using Express.js Add test cases to improve the reliability of the application Learn how to deploy apps on Heroku using GitHub Add authorization using passports Who this book is for If you are a web or a full-stack JavaScript developer, and have tried your hand at traditional stacks such as LAMP, MEAN or MERN, or wish to explore a new stack with modern web technologies, then this book is for you. Prior knowledge of HTML, CSS, and JavaScript would be an added advantage. Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications, familiarize yourself with diverse third-party modules, and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps, and Docker Container Understand how to monitor applications deployed in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps using Nagios, New Relic, Microsoft Azure, and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands-on with tools such as Jenkins 2 and Chef, and Cloud platforms such as AWS and Microsoft Azure, Docker, New Relic, Nagios, and their modules to host, deploy, monitor, and manage their web applications, then this book is for you. What You Will Learn Grasp Continuous Integration for a JEE application—create and configure a build job for a Java application with Maven and with Jenkins 2.0 Create built-in delivery pipelines of Jenkins 2 and build a pipeline configuration for end-to-end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms—install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure Web Apps, and a Docker container Monitor infrastructure, application servers, web servers, and applications with the use of open source monitoring solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation—create parameterized build jobs for end-to-end automation In Detail The DevOps culture is growing at a massive rate, as many organizations are adopting it. However, implementing it for web applications is one of the biggest challenges experienced by many developers and admins, which this book will help you overcome using various tools, such as Chef, Docker, and Jenkins. On the basis of the functionality of these tools, the book is divided into three parts. The first part shows you how to use Jenkins 2.0 for Continuous Integration of a sample JEE application. The second part explains the Chef configuration management tool, and provides an overview of Docker containers, resource provisioning in cloud environments using Chef, and Configuration Management in a cloud environment. The third part explores Continuous Delivery and Continuous Deployment in AWS, Microsoft Azure, and Docker, all using Jenkins 2.0. This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands-on projects. You will be exposed to real-world project scenarios that are progressively presented from easy to complex solutions. We will teach you concepts such as hosting web applications, configuring a runtime environment, monitoring and hosting on various cloud platforms, and managing them. This book will show you how to essentially host and manage web applications along with Continuous Integration, Cloud Computing, Configuration Management, Continuous Monitoring, Continuous Delivery, and Deployment. Style and approach This is a learning guide for those who have a basic knowledge of application deployment, configuration management tools, and Cloud computing, and are eager to leverage it to implement DevOps for web applications using end-to-end automation and orchestration. Quick Start Full Stack Web Development removes the trial and error from learning to make web applications. Being a full stack web developer does not mean knowing everything about every web technology, but rather knowing enough to build a complete application including a front end, a back end, and a database. Web searching can provide useful snippets of information, but integrating those pieces into a working whole remains a challenge. This book will walk the reader through both the component technologies and the steps required to get the pieces to work together. This clear focus can save countless hours of frustration compared to trying to assemble a working solution from inconsistent and outdated sources. The reader should have some familiarity with Python or JavaScript, but no web programming experience is assumed. Quick Start Full Stack Web Development explains key concepts, such as REST APIs and JSON Web Tokens, and then puts these concepts into practice with real, working examples. The examples are built step-by-step, providing an opportunity to experiment with the ideas. Furthermore, there is a consistent focus on getting instant feedback as changes are made to the code, a good practice for quickly building intuition and gaining experience. The chosen technologies (React, Flask, and PostgreSQL) are excellent options for newcomers to web development because they are relatively easy to learn, have vibrant supportive communities, and can scale to large and complex applications. Rather than providing a cursory introduction to a variety of technology options, Quick Start Full Stack Web Development provides a thorough foundation in one technology stack. This prevents confusion, provides more opportunities to reinforce concepts, and leads more quickly to significant results. Learn how to: Build a Python Flask REST API Develop and style a React client Design SQLite and PostgreSQL databases using SQLAlchemy Incorporate JSON Web Tokens (JWT) for authentication Test it using httpie, browser dev tools, pytest, and Jest Document it using Sphinx and Storybook Deploy using Gunicorn and NGINX on a Platform-as-a-Service The result is a fully functional full stack web application that addresses all the little details, like serving the client and API from the same server, managing the environment with a config file, making the documentation visible in the git repository, and populating and uploading databases. Because it focuses on getting to a working application, Quick Start Full Stack Web Development is well suited to entrepreneurs and solopreneurs building out their minimal viable products. And because it explains the concepts and shows them in practice, it will help programmers who want to get into web development. If you want to learn these powerful skills as quickly as possible, then this book is for you. Provides information on creating Web-based applications This book is perfect for beginners who want to get started and learn the web development basics, but also offers experienced developers a web development roadmap that will help them to extend their capabilities. Build an interactive and full-featured web application from scratch using Node.js and MongoDB About This Book Configure your development environment to use Node.js and MongoDB Use Node.js to connect to a MongoDB database and perform data manipulations A practical guide with clear instructions to design and develop a complete web application from start to finish Who This Book Is For This book is designed for JavaScript developers of any skill level that want to get up and running using Node.js and MongoDB to build full-featured web applications. A basic understanding of JavaScript and HTML is the only requirement for this book. What You Will Learn Configure your development environment to use Node.js and MongoDB Write and configure a web server using Node.js powered by the Express.js framework Build dynamic HTML pages using the Handlebars template engine Persist application data using MongoDB and Mongoose ODM Test your code using automated testing tools such as the Mocha framework Deploy the development environment to the cloud using services such as Heroku, Amazon Web Services, and Microsoft Azure Explore Single-Page application frameworks to take your web applications to the next level In Detail Node.js and MongoDB are quickly becoming one of the most popular tech stacks for the web. Powered by Google's V8 engine, Node.js caters to easily building fast, scalable network applications while MongoDB is the perfect fit as a scalable, high-performance, open source NoSQL database solution. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node.js to connect to a MongoDB database and perform data manipulations. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. By the end of the book, you will have a running web application developed with MongoDB and Node.js along with its popular frameworks. Style and approach An easy guide to Node.js and MongoDB, which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full-fledged web application. Unleash the power of MERN stack by building diverse web applications using React, Node.js, Express, and MongoDB Key Features Create dynamic web applications with the MERN stack Leverage the power of React in building interactive and complex user interfaces Unlock the potential of Node, Express, and MongoDB to build modern full-stack applications Book Description The benefits of using a full JavaScript stack for web development are undeniable, especially when robust and widely adopted technologies such as React, Node, and Express are available. Combining the power of React with industry-tested, server-side technologies, such as Node, Express, and MongoDB, creates a diverse array of possibilities when developing real-world web applications. This book guides you through preparing the development environment for MERN stack-based web development, to creating a basic skeleton application and extending it to build four different web applications. These applications include a social media, an online marketplace, a media streaming, and a web-based game application with virtual reality features. While learning to set up the stack and developing a diverse range of applications with this book, you will grasp the inner workings of the MERN stack, extend its capabilities for complex features, and gain actionable knowledge of how to prepare MERN-based applications to meet the growing demands of real-world web applications. What you will learn Set up your development environment and develop a MERN application Implement user authentication and authorization using JSON Web Tokens Build a social media application by extending the basic MERN application Create an online marketplace application with shopping cart and Stripe payments Develop a media streaming application using MongoDB GridFS Implement server-side rendering with data to improve SEO Set up and use React 360 to develop user interfaces with VR capabilities Learn industry best practices to make MERN stack applications reliable and scalable Who this book is for Full-Stack React Web Development Projects is for JavaScript developers who have some experience with React, but no previous experience with full-stack development involving Node, Express, and MongoDB, and who want practical guidelines to start building different types of real-world web applications with this stack. This comprehensive Guide to Web Development with Java introduces the readers to the three-tiered, Model-View-Controller architecture by using Spring JPA, JSPs, and Spring MVC controllers. These three technologies use Java, so that a student with a background in programming will be able to master them with ease, with the end result of being able to create web applications that use MVC, validate user input, and save data to a database. Topics and features: • Presents web development topics in an accessible, easy-to-follow style, focusing on core information first, and allowing the reader to gain basic understanding before moving forwards • Contains many helpful pedagogical tools for students and lecturers, such as questions and exercises at the end of each chapter, detailed illustrations, chapter summaries, and a glossary • Uses existing powerful technologies that are freely available on the web to speed up web development,

such as Spring Boot, Spring MVC, Spring JPA, Hibernate, JSP, JSTL, and Java 1.8 • Discusses HTML, HTML forms, and Cascading Style Sheets • Starts with the simplest technology for web development (JSP) and gradually introduces the reader to more complex topics • Introduces core technologies from the outset, such as the Model-View-Controller architecture • Includes examples for accessing common web services • Provides supplementary examples and tutorials Create real-time server-side applications with this practical, step-by-step guide About This Book Learn about server-side JavaScript with Node.js and Node modules through the most up-to-date book on Node.js web development Understand website development both with and without the Connect/Express web application framework Develop both HTTP server and client applications Who This Book Is For This book is for anybody looking for an alternative to the "P" languages (Perl, PHP, and Python), or anyone looking for a new paradigm of server-side application development. You should have at least a rudimentary understanding of JavaScript and web application development. What You Will Learn Install and use Node.js for both development and deployment Use the Express application framework Configure Bootstrap for mobile-first theming Use data storage engines such as MySQL, SQLITE3, and MongoDB Understand user authentication methods, including OAuth, with third-party services Deploy Node.js to live servers, including microservice development with Docker Perform unit testing with Mocha Perform functional testing of the web application with CasperJS In Detail Node.js is a server-side JavaScript platform using an event driven, non-blocking I/O model allowing users to build fast and scalable data-intensive applications running in real time. Node.js Web Development shows JavaScript is not just for browser-side applications. It can be used for server-side web application development, real-time applications, microservices, and much more. This book gives you an excellent starting point, bringing you straight to the heart of developing web applications with Node.js. You will progress from a rudimentary knowledge of JavaScript and server-side development to being able to create and maintain your own Node.js application. With this book you'll learn how to use the HTTP Server and Client objects, data storage with both SQL and MongoDB databases, real-time applications with Socket.IO, mobile-first theming with Bootstrap, microservice deployment with Docker, authenticating against third-party services using OAuth, and much more. Style and Approach This book is a practical guide for anyone looking to develop striking and robust web applications using Node.js. Explore the world of Rocket-fueled web application development and the power of the Rust programming language Key FeaturesDiscover solutions to the common problems faced while creating web applications with RocketLearn everything about Rust, from structs and crates to generics and debuggingCombine Rust and Rocket to create, test, and deploy a full-featured web appBook Description Looking for a fast, powerful, and intuitive framework to build web applications? This Rust book will help you kickstart your web development journey and take your Rust programming skills to the next level as you uncover the power of Rocket - a fast, flexible, and fun framework powered by Rust. Rust Web Development with Rocket wastes no time in getting you up to speed with what Rust is and how to use it. You'll discover what makes it so productive and reliable, eventually mastering all of the concepts you need to play with the Rocket framework while developing a wide set of web development skills. Throughout this book, you'll be able to walk through a hands-on project, covering everything that goes into making advanced web applications, and get to grips with the ins and outs of Rocket development, including error handling, Rust vectors, and wrappers. You'll also learn how to use synchronous and asynchronous programming to improve application performance and make processing user content easy. By the end of the book, you'll have answers to all your questions about creating a web application using the Rust language and the Rocket web framework. What you will learnMaster the basics of Rust, such as its syntax, packages, and toolsGet to grips with Rocket's tooling and ecosystemExtend your Rocket applications using Rust and third-party librariesCreate a full-fledged web app with Rocket that handles user contentWrite pattern-matching logic and handle Rust object lifetimesUse APIs and async programming to make your apps secure and reliableTest your Rocket application and deploy it to productionContainerize and scale your applications for maximum efficiencyWho this book is for This web development book is for software engineers who want to learn how to use the Rocket framework to build web applications. Although not mandatory, basic knowledge of the Rust programming language will help you understand the topics covered easily. Everything you need to know to create Web sites using your Mac Create and deploy striking Web sites and apps on a Mac for your own business or for clients using the essential techniques in this focused guide. While most Web site how-tos are geared toward either designers or programmers, this detailed book covers both aspects, helping you develop the complete skill sets that you'll need professionally. Tap all of the out-of-the-box perks that Apple has to offer for Web development with these techniques and insights from a seasoned Mac Web developer. Takes you through everything that Macs have to offer for Web development, such as a Web server, PHP, and Ruby on Rails; Macs come with these right out of the box, making setting up a Web development environment pushbutton-easy Reveals the science and the artistry behind creating beautiful and intuitive Web pages using Apple technology Covers the technical elements of Web page construction with HTML, CSS, Javascript, PHP, and Rails; then goes beyond to show you how to add creative flair using Photoshop Turn your design and development skills into marketable assets with this essential guide for Apple users. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. Unearth the power of GraphQL, React, Apollo, Node, and Express to build a scalable, production ready application Key Features Build full stack applications with modern APIs using GraphQL and Apollo Integrate Apollo into React and build frontend components using GraphQL Implement a self-updating notification pop-up with a unique GraphQL feature called Subscriptions Book Description React, one of the most widely used JavaScript frameworks, allows developers to build fast and scalable front end applications for any use case. GraphQL is the modern way of querying an API. It represents an alternative to REST and is the next evolution in web development. Combining these two revolutionary technologies will give you a future-proof and scalable stack you can start building your business around. This book will guide you in implementing applications by using React, Apollo, Node.js and SQL. We'll focus on solving complex problems with GraphQL, such as abstracting multi-table database architectures and handling image uploads. Our client, and server will be powered by Apollo. Finally we will go ahead and build a complete Graphbook. While building the app, we'll cover the tricky parts of connecting React to the back end, and maintaining and synchronizing state. We'll learn all about querying data and authenticating users. We'll write test cases to verify the front end and back end functionality for our application and cover deployment. By the end of the book, you will be proficient in using GraphQL and React for your full-stack development requirements. What you will learn Resolve data from multi-table database and system architectures Build a GraphQL API by implementing models and schemas with Apollo and Sequelize Set up an Apollo Client and build front end components using React Use Mocha to test your full-stack application Write complex React components and share data across them Deploy your application using Docker Who this book is for The book is for web developers who want to enhance their skills and build complete full stack applications using industry standards. Familiarity with JavaScript, React, and GraphQL is expected to get the most from this book. A new, updated and revised edition of the best-selling #1 book on any open source programming topic. "Ruby on Rails(tm) Tutorial by Michael Hartl has become a must-read for developers learning how to build Rails apps." --Peter Cooper, Editor of Ruby Inside Used by sites as varied as Hulu, GitHub, Shopify, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, Ruby on Rails(tm) Tutorial, Seventh Edition, is the solution. Best-selling author and leading Rails developer Michael Hartl teaches Rails by guiding you through the development of three example applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 7. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand while still being useful. Whatever your previous web-development experience, this book will guide you to true Rails mastery. This book will help you Set up your Rails development environment Record version changes with Git and create a secure remote repository at GitHub Deploy your applications early and often with Heroku Go beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the model-view-controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload and display images using Active Storage and Amazon S3 Implement account activation and password reset, including sending email with Rails Integrate JavaScript with Rails using Importmap Add social features and microblogging, including an introduction to Hotwire and Turbo Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. * Teaches Web development using real world tutorials * Approach to subject is no nonsense, wastes little time on history and unnecessary information; therefore it is very concise and results driven * Covers vital Web development subjects such as Web standards principles and implementation 86 recipes on how to build fast, scalable, and powerful web services and applications with Go Key Features Become proficient in RESTful web services Build scalable, high-performant web applications in Go Get acquainted with Go frameworks for web development Book Description Go is an open source programming language that is designed to scale and support concurrency at the language level. This gives you the liberty to write large concurrent web applications with ease. From creating web application to deploying them on Amazon Cloud Services, this book will be your one-stop guide to learn web development in Go. The Go Web Development Cookbook teaches you how to create REST services, write microservices, and deploy Go Docker containers. Whether you are new to programming or a professional developer, this book will help get you up to speed with web development in Go. We will focus on writing modular code in Go; in-depth informative examples build the base, one step at a time. You will learn how to create a server, work with static files, SQL, NoSQL databases, and Beego. You will also learn how to create and secure REST services, and create and deploy Go web application and Go Docker containers on Amazon Cloud Services. By the end of the book, you will be able to apply the skills you've gained in Go to create and explore web applications in any domain. What you will learn Create a simple HTTP and TCP web server and understand how it works Explore record in a MySQL and MongoDB database Write and consume RESTful web service in Go Invent microservices in Go using Micro - a microservice toolkit Create and Deploy the Beego application with Nginx Deploy Go web application and Docker containers on an AWS EC2 instance Who this book is for This book is for Go developers interested in learning how to use Go to build powerful web applications. A background in web development is expected. Learn Rails the way the Rails core team recommends it, along with the tens of thousands of developers who have used this broad, far-reaching tutorial and reference. If you're new to Rails, you'll get step-by-step guidance. If you're an experienced developer, get the comprehensive, insider information you need for the latest version of Ruby on Rails. The new edition of this award-winning classic is completely updated for Rails 6 and Ruby 2.6, with information on system testing, Webpack, and advanced JavaScript. Ruby on Rails helps you produce high-quality, beautiful-looking web applications quickly - you concentrate on creating the application, and Rails takes care of the details. Rails 6 brings many improvements, and this edition is updated to cover the new features and changes in best practices. We start with a step-by-step walkthrough of building a real application, and in-depth chapters look at the built-in Rails features. Follow along with an extended tutorial as you write a web-based store application. Eliminate tedious configuration and housekeeping, seamlessly incorporate Ajax and JavaScript, send and receive emails, manage background jobs with ActiveJob, and build real-time features using WebSockets and ActionCable. Test your applications as you write them using the built-in unit, integration, and system testing frameworks, internationalize your applications, and deploy your applications easily and securely. New in this edition is coverage of Action Mailer, which allows you to receive emails in your app as well as ActionText, a zero-configuration rich text editing feature. Rails 1.0 was released in December 2005. This book was there from the start, and didn't just evolve alongside Rails, it evolved with Rails. It has been developed in consultation with the Rails core team. In fact, Rails itself is tested against the code in this book. What You Need: All you need is a Windows, Mac OS X, or Linux machine to do development on. This book will take you through the steps to install Rails and its dependencies. If you aren't familiar with the Ruby programming language, this book contains a chapter that covers the basics necessary to understand the material in the book. Build a performant and scalable web application using Sanic, along with maintaining clean code to fit your unique challenges and business requirements Key Features Expand your knowledge of web application architecture for building scalable web apps Learn the core philosophies of performance and scalability from one of the creators of Sanic

Create a complete Python web app from scratch and learn to translate the knowledge you gain across various use cases Book Description Today's developers need something more powerful and customizable when it comes to web app development. They require effective tools to build something unique to meet their specific needs, and not simply glue a bunch of things together built by others. This is where Sanic comes into the picture. Built to be unopinionated and scalable, Sanic is a next-generation Python framework and server tuned for high performance. This Sanic guide starts by helping you understand Sanic's purpose, significance, and use cases. You'll learn how to spot different issues when building web applications, and how to choose, create, and adapt the right solution to meet your requirements. As you progress, you'll understand how to use listeners, middleware, and background tasks to customize your application. The book will also take you through real-world examples, so you will walk away with practical knowledge and not just code snippets. By the end of this web development book, you'll have gained the knowledge you need to design, build, and deploy high-performance, scalable, and maintainable web applications with the Sanic framework. What you will learn Understand the difference between WSGI, Async, and ASGI servers Discover how Sanic organizes incoming data, why it does it, and how to make the most of it Implement best practices for building reliable, performant, and secure web apps Explore useful techniques for successfully testing and deploying a Sanic web app Create effective solutions for the modern web, including task management, bot integration, and GraphQL Identify security concerns and understand how to deal with them in your Sanic apps Who this book is for This book is for Python web developers who have basic to intermediate-level knowledge of how web technologies work and are looking to take their applications to the next level using the power of the Sanic framework. Working knowledge of Python web development along with frameworks such as Django and/or Flask will be helpful but is not required. A basic to intermediate-level understanding of Python 3, HTTP, RESTful API patterns, and modern development practices and tools, such as type annotations, pytest, and virtual environments will also be beneficial. Build a simple, yet fully-functional modern web application using .NET Core 3.1, Entity Framework Core and Angular 9 Key Features Explore the latest edition of the bestselling book ASP.NET Core 2 and Angular 5 Design, build and deploy a Single Page Application or Progressive Web App with ASP.NET Core and Angular Adopt a full stack approach to handle data management, Web APIs, application design, testing, SEO, security and deployment Book Description Learning full stack development calls for knowledge of both frontend and backend web development. By covering the impressive capabilities of ASP.NET Core 3.1 and Angular 9, right from project setup through to the deployment phase, this book will help you to develop your skills effectively. The book will get you started with using the .NET Core framework and Web API Controllers to implement API calls and server-side routing in the backend. Next, you will learn to build a data model with Entity Framework Core and configure it using either a local SQL Server instance or cloud-based data stores such as Microsoft Azure. The book will also help you handle user input with Angular reactive forms and frontend and backend validators for maximum effect. You will later explore the advanced debugging and unit testing features provided by xUnit.net (.NET Core) and Jasmine, as well as Karma for Angular. Finally, you will implement various authentication and authorization techniques with the ASP.NET Core Identity system and the new IdentityServer, as well as deploy your apps on Windows and Linux servers using IIS, Kestrel, and Nginx. By the end of this book, you will be equipped with the skills you need to create efficient web applications using ASP.NET Core and Angular. What you will learn Implement a Web API interface with ASP.NET Core and consume it with Angular using RxJS Observables Create a data model using Entity Framework Core with code-first approach and migrations support Set up and configure a SQL database server using a local instance or a cloud data store on Azure Perform C# and JavaScript debugging using Visual Studio 2019 Create TDD and BDD unit test using xUnit, Jasmine, and Karma Implement authentication and authorization using ASP.NET Identity, IdentityServer4, and Angular API Build Progressive Web Apps and explore Service Workers Who this book is for This book is for experienced ASP.NET developers who already know about ASP.NET Core and Angular and are looking to learn more about them and understand how to use them together to create production-ready Single Page Applications (SPAs) or Progressive Web Applications (PWAs). However, the fully-documented code samples (also available on GitHub) and the step-by-step implementation tutorials make this book easy-to-understand - even for beginners and developers who are just getting started. Develop your real-time MEAN application efficiently using a combination of MongoDB, Express, Angular 2, and Node 5.0 About This Book* Construct a fully-functional MEAN application by using its components along with the best third-party modules* Harness the power of the JavaScript ecosystem to effectively run, build, and test your MEAN application* Gain a deep, practical understanding of real-time web application development through real-world examples Who This Book Is For If you are a JavaScript developer who is interested in building modern web applications using MongoDB, Express, Angular 2, and Node 5.0, then this book is for you. You only need knowledge of JavaScript development. What You Will Learn* Use MongoDB to store and retrieve your application's data* Connect your Express application to MongoDB and use the Mongoose module* Manage your users' authentication and offer them diverse login options using Passport* Structure and use an Angular 2 application in your MEAN project* Use Socket.io to create real-time communication between your client and server* Test your application's Express and Angular 2 entities In Detail The MEAN stack is a collection of the most popular modern tools for web development that helps you build fast, robust, and maintainable web applications. Starting with the MEAN core frameworks, this pragmatic guide will explain the key concepts of each framework, how to set them up properly, and how to use popular modules to connect it all together. By following the real-world examples shown in this tutorial, you will scaffold your MEAN application architecture, add an authentication layer, and develop an MVC structure to support your project development. You will learn the best practices of maintaining clear and simple code and will see how to avoid common pitfalls. Finally, you will walk through the different tools and frameworks that will help expedite your daily development cycles. Watch how your application development grows by learning from the only guide that is solely orientated towards building a full, end-to-end, real-time application using the MEAN stack!

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