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A golang ebook intro how to build a web with golang



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Build Web Application With Golang Gitbook

**Rheinwerk Publishing, Inc, Bernd
Öggl, Michael Kofler**



Build Web Application With Golang Gitbook:

Git Rheinwerk Publishing, Inc, Bernd Öggl, Michael Kofler, 2025-06-20 Learn Git from scratch to advanced topics including GitHub integration branching error troubleshooting and using platforms like GitLab for version control in development environments Key Features Covers Git installation basic commands and essential workflows for beginners Detailed exploration of advanced Git features like rebasing hooks and submodules Practical troubleshooting guide to address common Git errors and conflicts Book Description This practical guide is designed to take you from Git beginner to advanced user Starting with installation and configuration it covers the essential Git commands you'll need to create and manage repositories track changes and work with branches and commits These fundamental concepts set the stage for more complex workflows and efficient version control management The book then explores advanced features such as using platforms like GitHub and GitLab for remote repositories You'll learn how to collaborate with others through pull requests set up continuous integration pipelines and implement automation using hooks The guide also includes advanced techniques like rebasing and working with submodules helping you streamline your workflow and manage larger projects effectively The final sections focus on troubleshooting common Git errors from merge conflicts to authentication issues Practical solutions and best practices ensure you can resolve problems quickly and efficiently The book wraps up with a comprehensive Git command reference making it a go-to resource for both new users and experienced developers Whether you're working solo or in teams this book will help you master version control with confidence What you will learn Master the fundamentals of Git for version control and workflows Set up and configure Git on various operating systems Work with repositories on GitHub and GitLab platforms Manage branches and handle merge conflicts effectively Implement advanced Git features like hooks and submodules Troubleshoot common Git errors and find solutions Who this book is for This book is ideal for developers DevOps engineers and technical teams seeking to improve their Git skills Beginners can start from scratch with Git's fundamentals while experienced users can dive deeper into advanced workflows A basic understanding of programming concepts is recommended but not mandatory For those looking to enhance team collaboration and automate workflows this guide is perfect It's also suitable for individuals aiming to master version control in a professional environment or contribute to open source projects using GitHub GitLab and other platforms

Web Application Development with R Using Shiny Chris Beeley, Shitalkumar R. Sukhdeve, 2018-09-27 Shiny is an open source R package that provides an elegant and powerful web framework for building web applications using R This guide takes a fresh approach to developing scalable web applications It will enable you to create responsive interactive web applications using the complete R Shiny suite

Building Ethereum Dapps Roberto Infante, 2019-03-05 Summary Building Ethereum Dapps introduces you to decentralized applications based on the Ethereum blockchain platform In this book you'll learn the principles of Dapps development by rolling up your sleeves and actually building a few Foreword by Thomas Bertani Purchase of the print book includes a free eBook in PDF Kindle and

ePub formats from Manning Publications About the Technology Imagine unbreakably secure applications that handle personal and business transactions without any central agency controlling the process Decentralized applications or Dapps do just this shifting power to users The Ethereum blockchain platform provides the tools you need to build Dapps including an innovative smart contracts model and Solidity a Dapp aware JavaScript like programming language About the Book Building Ethereum Dapps teaches Dapps development on the Ethereum blockchain platform You ll begin with a mental model of how Dapps operate and then dive into designing and implementing smart contracts in Ethereum s Solidity language You ll explore Ethereum smart contract development tools like Truffle and Web3 and pick up best practices for design and security Practical exercises throughout give you valuable hands on experience What s inside Ethereum s key components Implementing smart contracts in Solidity Communicating with a smart contract in Web3 Developing Dapps with Truffle Best practices for design and security improvement About the Reader For developers with intermediate experience in JavaScript or an OO language Familiarity with blockchain concepts is helpful About the Author Roberto Infante is a software development consultant who specializes in finance He currently works on financial risk management systems and on blockchain technology Table of Contents PART 1 A first look at decentralized applications Understanding the blockchain The Ethereum platform Deploying your first smart contract PART 2 Programming smart contracts in Solidity Writing more complex smart contracts Generalizing functionality with abstract contracts and interfaces Managing smart contracts with Web3 js PART 3 The Ethereum ecosystem Unit testing contracts with Mocha Improving the development cycle with Truffle Putting it all together Building a complete voting Dapp PART 4 Making a Dapp production ready Security considerations Conclusions

[The Official Guide to Mermaid.js](#) Knut Sveidqvist,Ashish Jain,2021-09-17 Get up to speed with using Mermaid diagrams to facilitate a seamless development workflow with the help of real world examples and expert tips from the creators of the tool Key FeaturesLearn how to use and customize the different diagram types in MermaidDiscover examples of how to add Mermaid to a documentation systemUse Mermaid with various tools available such as editors wiki and moreBook Description Mermaid is a JavaScript based charting and diagramming tool that lets you represent diagrams using text and code which simplifies the maintenance of complex diagrams This is a great option for developers as they re more familiar with code rather than using special tools for generating diagrams Besides diagrams in code simplify maintenance and ensure that the code is supported by version control systems In some cases Mermaid makes refactoring support for name changes possible while also enabling team collaboration for review distribution and updates Developers working with any system will be able to put their knowledge to work with this practical guide to using Mermaid for documentation The book is also a great reference for looking up the syntax for specific diagrams when authoring diagrams You ll start by learning the importance of accurate and visual documentation Next the book introduces Mermaid and establishes how to use it to create effective documentation By using different tools editors or a custom documentation

platform you'll also understand how to use Mermaid syntax for various diagrams. Later chapters cover advanced configuration settings and theme options to manipulate your diagram as per your needs. By the end of this book you'll be well versed with Mermaid diagrams and how they can be used in your workflows. What you will learn: Understand good and bad documentation and the art of effective documentation. Become well versed with maintaining complex diagrams with ease. Discover how to draw different types of Mermaid diagrams such as flowcharts, class diagrams, Gantt charts, and more. Implement Mermaid diagrams in your workflows. Understand how to set up themes for a Mermaid diagram or an entire site. Get to grips with setting up a custom documentation system. Who this book is for: This book is for content generators such as technical writers, developers, architects, business analysts, and managers who want to learn effective documentation or how to effectively represent diagrams using simple text code snippets and extract them. Familiarity with documentation using Markdown will be helpful but not necessary.

Modern Web Development with Go Dušan Stojanović, 2023-03-02

Build fast scalable web server applications by harnessing the power of solution driven programming with Go

KEY FEATURES

- Understanding the core concepts of the Go programming language
- Designing and development of modern Web Server applications
- Dealing with different kinds of database management solutions
- Deploying applications with cutting edge technologies
- Monitoring and maintenance of applications with popular tools

DESCRIPTION In this book we are going to learn how to design, develop, and deploy Web Server Applications using the Go programming language. In recent years, Go has become the industrial standard for these kinds of applications, so by learning this, a lot of good opportunities can be opened in the market. All subjects will be covered through various practical examples. This book will cover the state-of-the-art technology for the development of Web Applications and follow all industrial standards. At the beginning, we will do the preparation for development. Here, we will learn the basics of the Go programming language, the basics of Web Servers, how to set up a project with Go, and how to design software solutions. Later, we will concentrate more on development. We will learn how to develop the application designed in the previous chapters, how to use different types of databases, how to test our application, and how to make it secure. At the end of the book, we will show how to deploy the application and monitor it after deployment. After reading this book, the readers can independently develop Web Server Applications or include themselves in already started projects.

WHAT WILL YOU LEARN

- Solve common problems with the Go programming language
- Be familiar with the terms related to server applications
- Understand the phases in the software development process
- Be able to independently design software solutions and use some best practices
- Be familiar with multiple different database management solutions, relational and NoSQL, and be able to predict which best suits their needs
- Learn how to deploy applications
- Understand and know how to apply monitoring and alerting concepts

WHO THIS BOOK IS FOR The book is for beginners and experienced developers who want to learn and have a thorough introduction to web development using the Go programming language. With a lot of practical examples and guidelines on how to install and configure specific tools.

beginners will easily understand and follow the content covered in this book On the other hand more experienced developers will certainly find some useful tips and tricks

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Go Web Development Cookbook Arpit Aggarwal,2018-04-23 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

Go Web Programming Sau Sheong Chang,2016

Full-Stack Web Development with Go Nanik Tolaram,Nick Glynn,2023-02-24

A Go programmer s hands on guide to go from building basic server side templates to full single page apps using Tailwind CSS Vue js and more

Key Features

- Learn how to structure your Go projects be smarter with SQLc
- create middleware and secure your apps
- Explore different frontend frameworks and dive into Vue and Tailwind CSS
- Use Terraform and Docker and deploy in minutes

Book Description Go is a modern programming language with capabilities to enable high performance app development With its growing web framework ecosystem Go is a preferred choice for building complete web apps This practical guide will enable you to take your Go skills to the next level building full stack apps This book walks you through creating and developing a complete modern web service from auth middleware server side rendering databases and modern frontend frameworks and Go powered APIs You ll start by structuring the app and important aspects such as

networking before integrating all the different parts together to build a complete web product Next you ll learn how to build and ship a complete product by starting with the fundamental building blocks of creating a Go backend You ll apply best practices for cookies APIs and security and level up your skills with the fastest growing frontend framework Vue Once your full stack application is ready you ll understand how to push the app to production and be prepared to serve customers and share it with the world By the end of this book you ll have learned how to build and ship secure scalable and complete products and how to combine Golang with existing products using best practices What you will learn Discover how to quickly scaffold structure and build your Golang applications Design and build databases using PostgreSQL and SQLc to generate type safe SQL code Monitor applications with centralized logging and metrics collection for high performance Explore frontend frameworks and libraries such as Vuetify Buefy and Tailwind CSS to build a responsive frontend for your app Communicate securely between the frontend and backend with cookies and session handling with middleware Understand how to package applications using Docker and set up CI pipelines in GitHub Who this book is for This book is for Go programmers who want to combine the power of the Go language with modern web development technologies to build complete web apps from frontend to backend The book assumes beginner level knowledge of HTML CSS and the web

Building Scalable Web Applications with Golang Tihana Grgic, Rogers Isaacson, 2025-02-23 Building Scalable Web Applications with Go Golang A Comprehensive Guide to Developing Fast Scalable and Concurrent Applications for the Web and Cloud Master the art of web development with Building Scalable Web Applications with Go Golang your ultimate guide to creating fast efficient and scalable web applications using one of the most powerful programming languages today Designed for developers and tech enthusiasts this book provides a step by step approach to leveraging Go s concurrency model and robust standard library to build modern cloud ready applications From building RESTful APIs to deploying production grade services this book equips you with practical tools and techniques to create high performance web applications that can handle millions of users with ease What You ll Learn Introduction to Go for Web Development Understand the core principles of Go and why it s ideal for building scalable web applications Go Syntax and Fundamentals Master Go s syntax data types and control structures to write clean and efficient code Building RESTful APIs Learn how to design and implement RESTful APIs using Go s net http package Concurrency in Go Harness the power of Go s goroutines and channels to build highly concurrent and responsive applications Database Integration Work with popular databases like PostgreSQL and MongoDB using Go libraries such as gorm and sqlx Authentication and Authorization Implement secure user authentication and authorization using JWT and OAuth Web Frameworks in Go Explore lightweight frameworks like Gin and Echo to speed up development and simplify routing Real Time Web Applications Build real time features like chat and live notifications with WebSockets and Go Deploying Applications to the Cloud Learn to containerize your applications with Docker and deploy them to AWS Google Cloud or Kubernetes Performance Optimization Optimize your Go applications for speed and scalability

with tools like pprof and benchmarking techniques Testing and Debugging Use Go's built-in testing tools to write unit tests integration tests and debug efficiently Microservices Architecture Design and implement scalable microservices using Go and service-oriented principles Error Handling in Go Write robust error handling mechanisms to ensure application reliability Security Best Practices Protect your applications from vulnerabilities with secure coding practices and data encryption techniques Real World Projects Apply your knowledge to build projects such as an e-commerce platform blog engine and task management system Who Is This Book For This book is perfect for backend developers web developers and anyone looking to harness the power of Go to build scalable web applications for the cloud Why Choose This Book With its hands-on approach practical examples and real-world projects Building Scalable Web Applications with Go Golang bridges the gap between learning and applying Go empowering you to create fast and reliable web applications Start building scalable web applications today with Building Scalable Web Applications with Go Golang A Comprehensive Guide to Developing Fast Scalable and Concurrent Applications for the Web and Cloud

Web Development with Go Shiju Varghese, 2015 Take a deep dive into web development using the Go programming language to build web apps and RESTful services to create reliable and efficient software Web Development with Go provides Go language fundamentals and then moves on to advanced web development concepts and successful deployment of Go web apps to the cloud Web Development with Go will teach you how to develop scalable real-world web apps RESTful services and backend systems with Go The book starts off by covering Go programming language fundamentals as a prerequisite for web development After a thorough understanding of the basics the book delves into web development using the built-in package net/http With each chapter you'll be introduced to new concepts for gradually building a real-world web system The book further shows you how to integrate Go with other technologies For example it provides an overview of using MongoDB as a means of persistent storage and provides an end-to-end REST API sample as well The book then moves on to demonstrate how to deploy web apps to the cloud using the Google Cloud platform Web Development with Go provides Fundamentals for building real-world web apps in Go Thorough coverage of prerequisites and practical code examples Demo web apps for attaining a deeper understanding of web development A reference REST API app which can be used to build scalable real-world backend services in Go A thorough demonstration of deploying web apps to the Cloud using the Google Cloud platform Go is a high-performance language while providing greater level of developer productivity therefore Web Development with Go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of Go

Web Applications with Go Tommy Clark, 2024-11-20 Web Applications with Go Unlock the Power of Go for Real World Web Server Development Unlock the full potential of Go Golang and learn how to build powerful scalable web applications with Web Applications with Go This practical guide takes you through building web applications with Go covering everything from web APIs with Go to building complete full-stack web applications with Go Whether you are new to Go or looking to deepen your skills this book offers

expert guidance real world examples and hands on projects to help you succeed Why This Book Build Scalable Web Applications with Go *Go Web Programming* Sau Sheong Chang,2016-07-05 Summary Go Web Programming teaches you how to build scalable high performance web applications in Go using modern design principles Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology The Go language handles the demands of scalable high performance web applications by providing clean and fast compiled code garbage collection a simple concurrency model and a fantastic standard library It s perfect for writing microservices or building scalable maintainable systems About the Book Go Web Programming teaches you how to build web applications in Go using modern design principles You ll learn how to implement the dependency injection design pattern for writing test doubles use concurrency in web applications and create and consume JSON and XML in web services Along the way you ll discover how to minimize your dependence on external frameworks and you ll pick up valuable productivity techniques for testing and deploying your applications What s Inside Basics Testing and benchmarking Using concurrency Deploying to standalone servers PaaS and Docker Dozens of tips tricks and techniques About the Reader This book assumes you re familiar with Go language basics and the general concepts of web development About the Author Sau Sheong Chang is Managing Director of Digital Technology at Singapore Power and an active contributor to the Ruby and Go communities Table of Contents PART 1 GO AND WEB APPLICATIONS Go and web applications Go ChitChat PART 2 BASIC WEB APPLICATIONS Handling requests Processing requests Displaying content Storing data PART 3 BEING REAL Go web services Testing your application Leveraging Go concurrency Deploying Go **Cloud Native Programming with Golang** Mina Andrawos,Martin Helmich,2017-12-28 Discover practical techniques to build cloud native apps that are scalable reliable and always available Key Features Build well designed and secure microservices Enrich your microservices with continuous integration and monitoring Containerize your application with Docker Deploy your application to AWS Learn how to utilize the powerful AWS services from within your application Book Description Awarded as one of the best books of all time by BookAuthority Cloud Native Programming with Golang will take you on a journey into the world of microservices and cloud computing with the help of Go Cloud computing and microservices are two very important concepts in modern software architecture They represent key skills that ambitious software engineers need to acquire in order to design and build software applications capable of performing and scaling Go is a modern cross platform programming language that is very powerful yet simple it is an excellent choice for microservices and cloud applications Go is gaining more and more popularity and becoming a very attractive skill This book starts by covering the software architectural patterns of cloud applications as well as practical concepts regarding how to scale distribute and deploy those applications You will also learn how to build a JavaScript based front end for your application using TypeScript and React From there we dive into commercial cloud offerings by covering AWS Finally we conclude our book by providing some overviews of other concepts and technologies that you can explore to

move from where the book leaves off What you will learn Understand modern software applications architectures Build secure microservices that can effectively communicate with other services Get to know about event driven architectures by diving into message queues such as Kafka Rabbitmq and AWS SQS Understand key modern database technologies such as MongoDB and Amazon s DynamoDB Leverage the power of containers Explore Amazon cloud services fundamentals Know how to utilize the power of the Go language to access key services in the Amazon cloud such as S3 SQS DynamoDB and more Build front end applications using ReactJS with Go Implement CD for modern applications Who this book is for This book is for developers who want to begin building secure resilient robust and scalable Go applications that are cloud native Some knowledge of the Go programming language should be sufficient To build the front end application you will also need some knowledge of JavaScript programming

Go: Building Web Applications Nathan Kozyra, Mat Ryer, 2016-08-31 Build real world production ready solutions by harnessing the powerful features of Go About This Book An easy to follow guide that provides everything a developer needs to know to build end to end web applications in Go Write interesting and clever but simple code and learn skills and techniques that are directly transferable to your own projects A practical approach to utilize application scaffolding to design highly scalable programs that are deeply rooted in go routines and channels Who This Book Is For This book is intended for developers who are new to Go but have previous experience of building web applications and APIs What You Will Learn Build a fully featured REST API to enable client side single page apps Utilize TLS to build reliable and secure sites Learn to apply the nuances of the Go language to implement a wide range of start up quality projects Create websites and data services capable of massive scale using Go s net http package exploring RESTful patterns as well as low latency WebSocket APIs Interact with a variety of remote web services to consume capabilities ranging from authentication and authorization to a fully functioning thesaurus Explore the core syntaxes and language features that enable concurrency in Go Understand when and where to use concurrency to keep data consistent and applications non blocking responsive and reliable Utilize advanced concurrency patterns and best practices to stay low level without compromising the simplicity of Go itself In Detail Go is an open source programming language that makes it easy to build simple reliable and efficient software It is a statically typed language with syntax loosely derived from that of C adding garbage collection type safety some dynamic typing capabilities additional built in types such as variable length arrays and key value maps and a large standard library This course starts with a walkthrough of the topics most critical to anyone building a new web application Whether it s keeping your application secure connecting to your database enabling token based authentication or utilizing logic less templates this course has you covered Scale performance and high availability lie at the heart of the projects and the lessons learned throughout this course will arm you with everything you need to build world class solutions It will also take you through the history of concurrency how Go utilizes it how Go differs from other languages and the features and structures of Go s concurrency core It will make you feel comfortable designing a safe data consistent and high performance concurrent

application in Go This course is an invaluable resource to help you understand Go s powerful features to build simple reliable secure and efficient web applications Style and approach This course is a step by step guide which starts off with the basics of go programming to build web applications and will gradually move on to cover intermediate and advanced topics You will be going through this smooth transition by building interesting projects along with the authors discussing significant options and decisions at each stage while keeping the programs lean uncluttered and as simple as possible

Web Programming with Go Ian Taylor,2023-10-24 Web Programming with Go is a must have book for software professionals and web developers looking to harness Go s potential for creating excellent web apps The extensive knowledge imparted by this book about Go s powerful libraries and packages is crucial for building scalable and efficient web platforms The book s core focus is on exploring deeply into the complexities of web development through the perspective of Go The first step in building any web application is to review the fundamentals which will serve as a foundation for the rest of the learning experience As you explore deeper you ll learn about the diverse ecosystem that supports Go This book covers a wide range of issues including the complexities of routing mechanics HTTP requests and Go s concurrency model all with the goal of improving web efficiency The book uses the example of a bookstore app throughout the book providing you with a practical touchpoint on every possible learning With this iterative example you can follow the development of a simple web app from its infancy all the way to a fully featured robust platform The later sections of the book focus on performance evaluation and debugging which are frequently overlooked in other Go books This book takes you from the fundamentals of web development to the depths of Go culminating in a strong online application designed to meet today s digital issues This book promises to be your compass in the vast ocean of web development whether you re an experienced developer or an enthusiast just getting started with Go

Key Learnings Master Go s efficient syntax and streamline coding with better performance Build robust web applications from scratch ensuring scalability and responsiveness Seamlessly integrate APIs enhancing app functionality and user experience Harness Go s concurrency boosting app speed and multitasking capabilities Optimize data storage and retrieval with Go ensuring data integrity and speed Develop resilient apps by mastering error detection and troubleshooting in Go Implement user sessions enhancing user experience and data security Ensure app reliability through Go s comprehensive testing and debugging techniques Utilize Go tools for real time performance tracking ensuring optimal user experiences Safeguard user data and interactions through Go s top tier security practices

Table of Content Introduction to Web Development in Go Structuring Go Web Application Handling HTTP Requests and Routing Templating and Rendering Content Interaction with Databases Concurrency in Go Sessions Authentication and Authorization Frontend and Backend Communication Testing and Debugging

Hands-On High Performance with Go Bob Strecansky,2020-03-24 Proven methodologies and concurrency techniques that will help you write faster and better code with Go programming

Key FeaturesExplore Go s profiling tools to write faster programs by identifying and fixing bottlenecksAddress Go specific

performance issues such as memory allocation and garbage collection. Delve into the subtleties of concurrency and discover how to successfully implement it in everyday applications.

Book Description: Go is an easy-to-write language that is popular among developers thanks to its features such as concurrency, portability, and ability to reduce complexity. This GoLang book will teach you how to construct idiomatic Go code that is reusable and highly performant. Starting with an introduction to performance concepts, you'll understand the ideology behind Go's performance. You'll then learn how to effectively implement Go data structures and algorithms along with exploring data manipulation and organization to write programs for scalable software. This book covers channels and goroutines for parallelism and concurrency to write high-performance code for distributed systems. As you advance, you'll learn how to manage memory effectively. You'll explore the compute unified device architecture (CUDA) application programming interface (API) use containers to build Go code and work with the Go build cache for quicker compilation. You'll also get to grips with profiling and tracing Go code for detecting bottlenecks in your system. Finally, you'll evaluate clusters and job queues for performance optimization and monitor the application for performance regression. By the end of this Go programming book, you'll be able to improve existing code and fulfill customer requirements by writing efficient programs.

What you will learn:

- Organize and manipulate data effectively with clusters and job queues.
- Explore commonly applied Go data structures and algorithms.
- Write anonymous functions in Go to build reusable apps.
- Profile and trace Go apps to reduce bottlenecks and improve efficiency.
- Deploy, monitor, and iterate Go programs with a focus on performance.
- Dive into memory management and CPU and GPU parallelism in Go.

Who this book is for: This GoLang book is a must for developers and professionals who have an intermediate to advanced understanding of Go programming and are interested in improving their speed of code execution.

Go Programming Oliver Lucas, Jr, 2024-11-08

Go Programming for Web Developers: Build High Performance Web Applications with Go Unlock the power of Go to create fast, efficient, and scalable web applications. This comprehensive guide dives deep into the world of Go programming, specifically tailored for web developers. Whether you're a seasoned web developer looking to expand your skillset or a newcomer eager to learn a powerful language, this book provides a clear and practical path to mastering Go for web development. Inside, you'll discover:

- Go Fundamentals:** A solid foundation in Go syntax, data structures, and core concepts.
- Web Development with Go:** Learn to build web applications from the ground up, covering topics like handling HTTP requests, routing, templating, and working with databases.
- Concurrency in Go:** Leverage Go's powerful concurrency features to build high-performance applications that can handle massive traffic.
- Building RESTful APIs:** Design and implement robust APIs that follow RESTful principles.
- Working with Frameworks:** Explore popular Go web frameworks like Gin, Echo, and Beego to streamline your development process.
- Security Best Practices:** Implement secure coding practices to protect your web applications from vulnerabilities.
- Real World Examples:** Apply your knowledge through practical examples and projects that demonstrate Go's capabilities in web development.

By the end of this book, you'll be able to confidently write Go code for web applications. Build

scalable and maintainable web services Utilize Go's concurrency model for optimal performance Secure your web applications against common threats Choose the right Go web framework for your needs This book is perfect for Web developers with experience in languages like Python JavaScript or PHP Backend developers looking to learn a new language for building high performance web applications Students and enthusiasts interested in exploring the world of Go programming Start your journey into the world of Go web development today

Learning Go Programming Shubhangi Agarwal,2021-01-02 Deep dive into the essential topics in Go programming KEY FEATURES _ Understand the fundamentals of Go language its history purpose and success stories _ Learn how to work with Variables Constants Data types Operators Control structures and Functions _ Get familiar and work with the standard Golang libraries _ Learn how to create custom packages and third party package installation _ Understand how concurrency is achieved in Go with the use of Goroutines Mutex and Channels _ Understand how an error is handled in Golang and supported libraries DESCRIPTION This book is a unique read for both beginners and developers as it extensively covers topics ranging from fundamentals to advanced topics in Go programming Basics such as Data types Control structures and Loops in have been explained in depth A detailed description of Structs Interfaces Polymorphism and Concurrency will enable you to write professional codes using Golang You will get an idea of error data type and how to recover it in Golang You will be capable of using standard libraries create custom packages and install third party packages in Go Creation of functions and invoking them in Go have been vividly explained By the end you will be able to write advanced Golang code and at the same time develop an application with Golang server WHAT YOU WILL LEARN _ Learn how to write codes using Control structures and Loops in Go _ Get familiar with the type of Operators in Go _ Learn how to work with Arrays and Slices in Go _ Get familiar and work with the functions in Go _ Learn how to implement Concurrent programming in Go WHO THIS BOOK IS FOR This book is for anyone who wants to learn the Golang programming language Programmers and developers who are currently using Golang can use this book as a reference guide TABLE OF CONTENTS 1 Introduction to Go 2 Environment Setup 3 Beginning With Go 4 Variables Data Types and Constants 5 Operators 6 Control Structures 7 Functions 8 Packages in Go 9 Arrays and Slices 10 Strings 11 Pointers 12 Structures 13 Composition 14 Interfaces and polymorphism 15 Maps 16 Concurrency with Go 17 Mutex Channels 18 Error Handling 19 Reflection 20 Build Web Application

GOLANG FOR MODERN WEB DEVELOPMENT JOSE. GOBERT,2025 **Go for Web Development** ETHAN. CALDWELL,2025-02-03 Go Golang is a powerful efficient and modern programming language designed for building high performance web applications Its simplicity concurrency model and built in web development capabilities make it a top choice for developers looking to build scalable cloud native applications Whether you re developing APIs microservices or full fledged web applications Go provides the speed security and reliability needed for today's demanding software environments Written by experienced software engineer Ethan Caldwell this book is a comprehensive project based guide to building real world web applications with Go With years of expertise in backend

development and scalable architecture Ethan simplifies complex concepts ensuring that beginners and professionals alike can master Go for web development Go for Web Development is a step by step guide to building modern scalable and production ready web applications using Go Covering everything from backend architecture and RESTful API development to authentication real time features and deployment this book ensures that you gain hands on experience in creating professional grade web solutions Each chapter is structured with practical examples hands on exercises and best practices to help you develop high performance web applications with confidence What s Inside Setting up a Go web development environment Building RESTful APIs and dynamic templates Authentication user management and security best practices Implementing real time features using WebSockets Scaling web applications with load balancers and caching Deploying applications using Docker AWS and Kubernetes Debugging logging and performance optimization techniques A complete end to end project to reinforce your learning This book is ideal for developers at any skill level who want to master Go for web development Whether you re a beginner transitioning into backend development or an experienced programmer looking to build scalable applications this book provides a structured learning path with real world projects to help you succeed Start building scalable Go web applications today With clear explanations hands on projects and expert insights this book fast tracks your journey to mastering Go for web development Each chapter is designed to be practical engaging and time efficient so you can apply your knowledge immediately Unlock the power of Go for web development Get your copy of Go for Web Development Build Scalable and Dynamic Web Applications with Ease today and take your web development skills to the next level

Decoding **Build Web Application With Golang Gitbook**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Build Web Application With Golang Gitbook**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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