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| Topics | Task Name | Description | Why is it needed? | Resources | | | Notes |
|--------------------------------|--|---|--|--|--|---------------|-------|
| | | | | Article | Video | Time Estimate | |
| Introduction | Setup your environment | This document is about setting up your Go environment | This document is about setting up your Go environment | Setup your environment A Tour of Go: Newsweek | | 10mins | |
| | Introduction to Go | The document provides an overview of the Go programming language, covering its major components and features. It is useful for software developers who want to learn about Go or refresh their knowledge. | | Learn Go by Example Developing a RESTful API with Go and Gin - REST test server | Go Tutorial: Overview for Beginners | 2-3 hrs | |
| | Developing a RESTful API with Go and Gin | RESTful web services are a type of web service that uses the Representational State Transfer (REST) architectural style. REST is an architectural style that defines a set of constraints that can be used to design and build web services that are simple, lightweight, stateless, cacheable, and layered. | This tutorial introduces the basics of writing a RESTful web service API with Go and the Gin Web Framework (Gin). | Go REST Example with Framework - A to Z Series | Link | 30 mins | |
| Tools and Frameworks | | | | | | | |
| | Postman | Postman is a popular tool used for testing and debugging APIs. It provides a user-friendly interface for developers to send HTTP requests, inspect responses, and visualize API data. | By learning how to use Postman, developers can save time and effort in manually testing APIs, easily create and manage collections of API requests, and automate testing workflows. Postman also offers collaboration features, allowing team members to work together on API testing and documentation. | 1. Introduction to postman (Link) 2. Documentation using Postman (Link) | Link | 20 - 30 mins | |
| Database | | | | | | | |
| | MongoDB | MongoDB is a general-purpose document database designed for modern application development and for the cloud. | Databases provide an interface to save data in a persistent way to memory. MongoDB stores data as JSON documents. The document data model maps naturally to objects in application code, making it simple for developers to learn and use. | MongoDB Basics MongoDB Go Driver Tutorial MongoDB Aggregation (optional) | MongoDB basics | 2 hrs | |
| Authentication & Authorization | | | | | | | |
| | JWT Authentication | Both Authentication and Authorization are units utilized in respect of knowledge security that permits the safety of an automatic data system. In the authentication process, the identity of users is checked for providing the access to the system. While in the authorization process, a person's or user's authorities are checked for accessing the resources. Authentication is done before the authorization process, whereas the authorization process is done after the authentication process. | Authentication and authorization are critical components of any web application, as they help ensure that only authorized users can access specific resources and perform certain actions. | Implementing authentication and authorization in a Go application | GO JWT Authentication with Gin Gonic | 3 hrs | |
| Clean Architecture | | | | | | | |
| | Clean Architecture | Clean architecture is a software design philosophy that separates the elements of a design into ring levels | Clean architecture provides developers a way to organize code in such a way that it encapsulates the business logic but keeps it separate from the delivery mechanism. | The Clean Architecture Go Backend Clean Architecture | | 2 hrs | |
| Testing | | | | | | | |
| | Unit Tests | Unit testing ensures that the functional requirements of individual code units are met, promoting accurate functionality. | Unit testing helps identify defects related to safety, security, and reliability, ensuring higher code quality | Detailed Guide for Simplifying Testing with Golang Testify Relia Software Testing REST API in Go with Testify and Mockery | | 2 hrs | |

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[2] Your folder structure is excellent, but don't forget to follow the instructions as well. There was no folder named 'services' in the task description.