

Take-Home Exercise: Health Tech API Service in Go

Overview

We are excited to see your creativity and skills in action! For this exercise, you will create an API server using Go, designed to address a specific need within the health tech space. This project is an opportunity for you to showcase your understanding of API design principles, Go programming, and your ability to design and implement a functional service from scratch.

Assignment

Imagine a health tech startup aiming to revolutionize personal wellness through innovative technology. Your task is to build an API server that helps users track their sleep patterns and improve their sleep quality. The service will allow users to log their sleep data and track their sleep trend.

Requirements

- **Design and Implementation:** Design an API that provides the following functionalities:
 - **Log Sleep Data:** Allow users to log their sleep start and end times, along with the quality of sleep.
 - **View Sleep Logs:** Enable users to view their past sleep logs.
- **Core Functionality:** Focus on delivering a seamless and user-friendly experience. Consider what kind of data will be handled, how users will interact with the service, and what endpoints will be necessary.
- **Documentation:** Provide a README file that explains:
 - The purpose and features of your service
 - Instructions on how to set up and run the server
 - Examples of how to interact with your API
 - A brief explanation of key design decisions
- **Code Quality:** Ensure your code is clean, well-organized, tested, and adheres to best practices in Go programming.

Working Guidelines

We would expect you to spend anywhere between 20-40 hours working on this assignment. We will pay a rate of \$40/hr USD for your work on the assignment. You are welcome (and encouraged) to use AI to help with any part of the assignment. Please reach out with any questions you might have.

Submission

Please submit your completed assignment as a Git repository. Include all necessary files and instructions for running the service.

We are looking forward to seeing your solution and how you approach this challenge. Good luck!