BACKEND ENGINEERING PROJECT

Appointment Scheduling

MOTIVATION

At Future, our trainers often schedule video calls with clients to check in on progress and make adjustments. We'd like you to build an API to allow a client to schedule a video call with their trainer.

INSTRUCTIONS

The client should be able to pick from a list of available times, and appointments for a coach should not overlap.

All appointments are 30 minutes long, and should be scheduled at :00, :30 minutes after the hour during business hours.

Business hours are M-F 8am-5pm Pacific Time

Your goal is to create an HTTP JSON API written in Go with the following endpoints:

· **Get a list of available appointment times for a trainer between two dates**
  Parameters:
    trainer_id
    starts_at
    ends_at
  Returns:
    list of available appointment times

· **Post a new appointment (as JSON)**
  Fields:
    trainer_id
    user_id
    starts_at
    ends_at

· **Get a list of scheduled appointments for a trainer**
  Parameters:
    trainer_id

The included file appointments.json contains the current list of appointments in this format:

```
[
 {
  "id": 1
  "trainer_id": 1
  "user_id": 2,
  "starts_at": "2019-01-25T09:00:00-08:00",
  "ends_at": "2019-01-25T09:30:00-08:00"
 }
]
```