

Problem: We need a way to automatically integrate doctor's calendars from their existing systems of records with the Notable platform. The task is to build a web back-end that supports the following functionality via HTTP requests:

- Get a list of all doctors
- Get a list of all appointments for a particular doctor and particular day
- Delete an existing appointment from a doctor's calendar
- Add a new appointment to a doctor's calendar
 - New appointments can only start at 15 minute intervals (ie, 8:15AM is a valid time but 8:20AM is not)
 - A doctor can have multiple appointments with the same time, but no more than 3 appointments can be added with the same time for a given doctor

An example web UI that would be built on top of this backend is shown below. Doctors should have a unique ID, a first name, and a last name. Appointments should have a unique ID, patient first name, patient last name, date & time, and kind (New Patient or Follow-up). The backend must respond to HTTP requests (ie GET, POST, DELETE).

notable

PHYSICIANS

- Hibbert, Julius
- **Krieger, Algernop**
- Riviera, Nick

Logout

Dr. Algernop Krieger

krieger@notablehealth.com

05/09/2018

| # | Name | Time | Kind | |
|---|-----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------|----------------------------------|
| 1 | Sterling Archer | 8:00AM | New Patient | X |
| 2 | Cyril Figis | 8:30AM | Follow-up | X |
| 3 | Ray Gillette | 9:00AM | Follow-up | X |
| 4 | Lana Kane | 9:30AM | New Patient | X |
| 5 | Pam Poovey | 10:00AM | New Patient | X |
| 6 | <input type="text" value="First name"/> <input type="text" value="Last name"/> | <input type="text" value="09:00 AM"/> | <input type="text" value="New Patient"/> | <input type="button" value="+"/> |

For this exercise, the data can just be kept in memory (such that any changes will be reset on server restarts), though you're welcome to use a database if you prefer. You are free to use any languages, frameworks, libraries, scaffolding, starter packs, etc that you'd like. With your response, please include a zip file with your source code (preferably in a git repository), and instructions for how to run the application locally.