

## **Thank you for applying to the PingThings Engineering Team!**

As preparation for our collaborative technical interview, we would like you to complete this simple API project. It is intended to be a jumping-off point for our collaborative technical interview so that you don't have to worry about framing out an app and writing boilerplate code with someone looking over your shoulder. While you are welcome to spend as much time as you would like, a couple hours of work should be enough to get this to an acceptable level of completeness.

Once you have completed it, please create a zip of your project and send it to [david.konigsberg@pingthings.io](mailto:david.konigsberg@pingthings.io) 12 hrs or more before your interview. We will then build on this code during your interview.

### **Task:**

Please build a JSON REST API for storing and querying sensor metadata.

At a minimum, this API should expose endpoints for the following:

- Storing name, location (gps position), and a list of tags for each sensor.
- Retrieving metadata for an individual sensor by name.
- Updating a sensor's metadata.
- Querying to find the sensor nearest to a given location.

It is up to you how you structure your application, but please write it in Go and include anything you would in a professional project (i.e.: README, tests, input validation, etc).

**You are welcome to spend as much time on this as you would like, but in an effort to be respectful of your time, please feel free to punt on any features you don't have time to implement. Simply document in your readme what some of your next steps might be, were you to spend more time developing the app.**