

# Your challenge – our test assignment

This assignment is based on a real project – our SocialHub. We need a monitoring tool, that enables us to watch the status of our APIs closely. For this it is important that the endpoint answers with HTTP status 200 to a GET request. In addition it's important to know, how long it takes the request to be completed.

Your task is to create a small web interface, in which you can enter and save Urls. The Urls should be displayed in a list and we need the possibility to delete them again.

Next to the Url, the „health“ and the response time of the request in ms should also be displayed. After adding a new Url, this Url has the status „pending“ until it gets requested for the first time (see status definition below). The status of a Url should be determined at least every 10 seconds.

Url

| Url   | Status  | RT (ms) |                        |
|---|---------|---------|------------------------|
| <a href="http://sh.brl.io/channels?appid=testapp1">http://sh.brl.io/channels?appid=testapp1</a> | ok      | 20      | <a href="#">delete</a> |
| <a href="http://sh.brl.io/down?appid=testapp1">http://sh.brl.io/down?appid=testapp1</a>         | error   | 100     | <a href="#">delete</a> |
| <a href="http://socialhub.maloon.de/">http://socialhub.maloon.de/</a>                           | pending | 123     | <a href="#">delete</a> |

*Don't spend too much time on styling, functionality is the key here.*

Status definition:

- pending: A Url has just been added and hasn't been checked for its' health yet.
- ok: A GET request to the Url returns the HTTP Status 200.
- error: A GET request to the Url returns a HTTP Status unequal to 200.

Miscellaneous:

- There's no need to store the Urls or other data in a database. A simple JSON file should be enough in the beginning.
- <http://socket.io/> is a good way to send the status of a Url in realtime to the frontend, but you're free to do this any other way.
- Use node.js version 0.8.14

A few links that will help you:

|   |   |   |   |
|---|---|---|---|
| <a href="http://nodejs.org/">http://nodejs.org/</a> | <a href="http://coffeescript.org/">http://coffeescript.org/</a> | <a href="http://socket.io/">http://socket.io/</a> | <a href="http://expressjs.com/">http://expressjs.com/</a> |
|---|---|---|---|

A simple barrier: <https://gist.github.com/3917496>

Should you have any questions, don't hesitate to call us or send us a quick mail at [jobs@maloon.de](mailto:jobs@maloon.de) – we're always happy to help. Have fun!