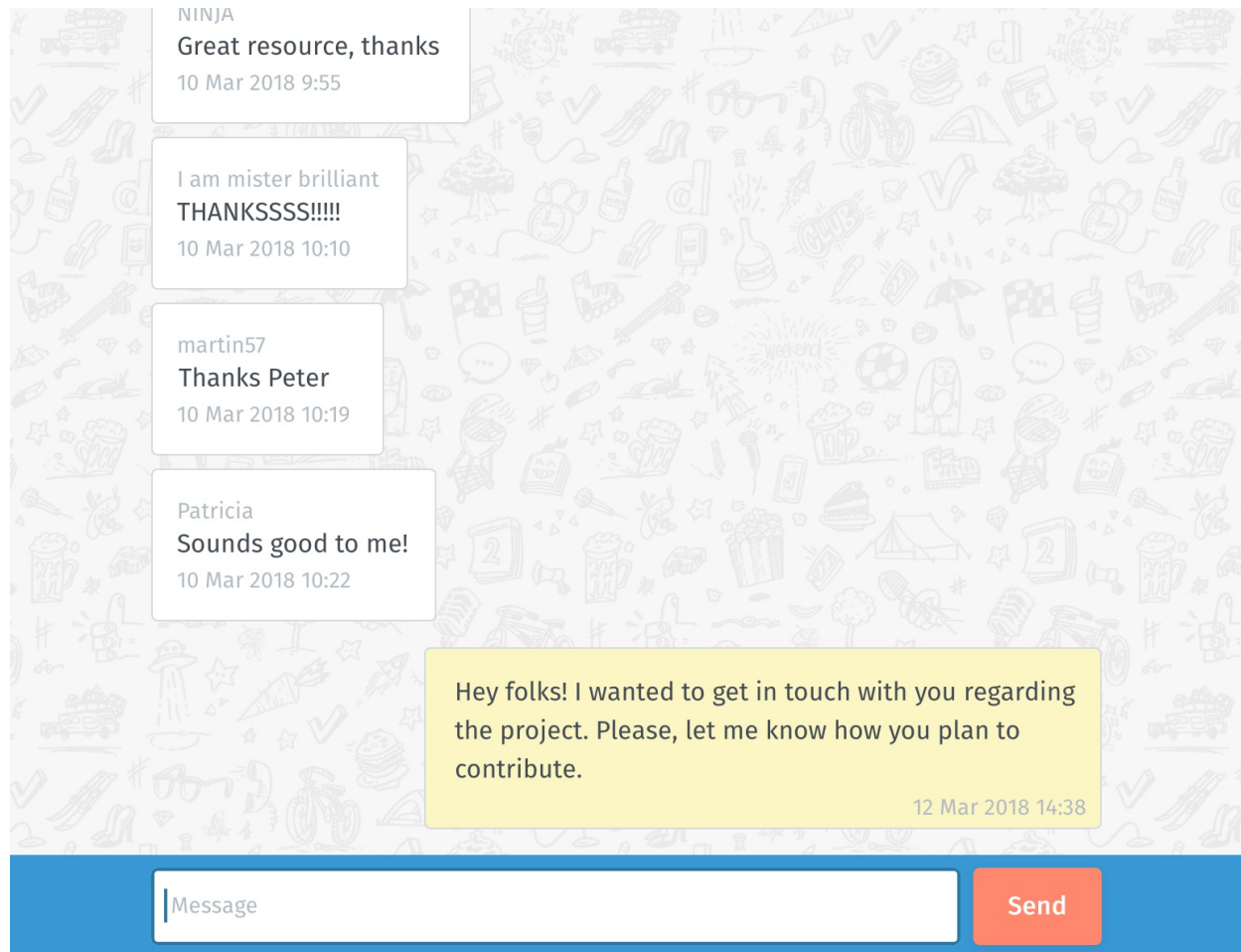# Front-end coding exercise

Congratulations! Your application for the Doodle frontend position piqued our interest. You can code – we trust you on that one. However, we'd like to see your style!

We want you to build a simple chat interface in JavaScript which is able to send messages and display messages from all senders:

For this, we have prepared a simple API which receives new messages in a `POST` endpoint and lists all messages reverse chronological order in a `GET` endpoint:

- Receive all messages:

  ```
  curl https://chatty.kubernetes.doodle-test.com/api/chatty/v1.0/?token=[YOUR_AWESOME_UNIQUE_TOKEN]
  ```
- If you want, you can also only receive a maximum of 10 messages newer than the timestamp `1521096352339`:

  ```
  curl https://chatty.kubernetes.doodle-test.com/api/chatty/v1.0/?since=1521096352339&limit=10&token=[YOUR_AWESOME_UNIQUE_TOKEN]
  ```
- Send a message:

```
  curl -X POST \ -H 'Content-Type: application/json' \ -H 'token:
[YOUR_AWESOME_UNIQUE_TOKEN]' \ -d '{"message":"Hello world","author":"Tom"}' \
https://chatty.kubernetes.doodle-test.com/api/chatty/v1.0
```

Rules and such

We understand your time is precious and would not want you to spend more than **3 hours** on this over the span of one week max. The outcome should be runnable locally on a UNIX-flavored OS (MacOS, Linux) in a common browser.

You must use **Javascript** (Vanilla JS, React, …). We want you to provide a responsive implementation. Keep in mind that Doodle is used worldwide and has to work on commonly used browsers.

We expect to hear back from you **in a week from now**, latest.

What are we after?

It is ok if the assignment is not completed. Try to **prioritize** by what you think is more important. Tell us what **motivated** your technology choices, how you tackled the task, what you would do differently were you given more time, what you would differently a second time around, etc.

- Commit often, write useful commit messages
- Code readability
- Performance: it should load reasonably fast on a mobile device
- Accessibility: the more usable the interface, the better
- Design: we are not looking for pixel-pushing, but we love attention to detail

Next steps

We will carefully review your exercise in a timely manner. Next, we're inviting you to an interview, where we can explore your solution in detail.