

# Web Development Challenge

Congratulations! 🎉

If you are reading this, you have reached a crucial phase in the recruitment process, and you are now closer to the finish line! 🏁

Below you will find our Web Development challenge that you now need to deliver. This will allow us to access your skills and potential, and we hope that you'll have fun doing it as well. 😊

Here's what you'll need to do:

## 1. The challenge

To test the candidate's skills as a full-stack web developer, we propose the development of a simple chat application.

The chat app should be able to send messages through an input area and then draw those same messages in a chat, as well as the automatic answers from the algorithm.

### What it needs to do:

- write messages;
- send messages;
- receive answer messages every time a message is sent.

The complexity of development depends on the developer's skills and knowledge. How the challenge is approached will determine the candidate's level and role.

### There are a **few restrictions**:

- only use JavaScript & Javascript frameworks (like Typescript, Node.js, React.js, etc.);
- must have back-end and front-end logic;
- if a database is created for this purpose, it should be a non-relational database;

Besides this, feel free to make the best of your skills in this exercise but take into consideration **some tips**:

- write clean code;
- create a well-organized project;
- use good code practices;
- make sure the logic is explained in the best way possible.

## 2. How to submit your challenge?

You should submit your challenge via a private GitHub repo. Make sure to let us know which **Node.js version** you used, and don't forget to include any necessary **environment variables** — ideally in a `.env.example` file — so we know exactly what needs to be configured.

If it's easier for you, feel free to send us a Dockerfile and Docker Compose YAML.

Your **README** should guide us through the setup, step by step, so we can run and review everything smoothly. 🚀

## 3. The expected deliverables

Once we've reviewed your challenge, and if it gets a thumbs up 👍, we'll reach out to schedule a quick session so you can walk us through your work. We're looking forward to seeing your magic in action!

Good luck and happy coding! 🤖