

# Senior Fullstack engineer



This technical test is intended for ~**Fullstack Typescript profiles**. It is composed of a backend and frontend part (web or mobile; your choice)

## Stack

- **Language** : `Typescript` - Latest version (on @October 19, 2023 = `5.2` )
- **Backend** : `NestJS` - Latest version (on @October 19, 2023 = `10.2.7` )
- **Frontend** :
  - Web : `Next.js` - Latest version (on @October 19, 2023 = `13.5.6` )
  - Mobile : `React Native` - Latest version (on @October 19, 2023 = `0.72` )



You can use any additional libraries or dependencies of your choice if you feel it's useful and know how to **justify** it.

## Specs

This mini project consists of creating a **small nickname registration system**. It needs a **backend** and a **UI frontend** (mobile OR web). You will have to develop only ONE combination :

1. back + web
2. or back + mobile

On **backend** side you need 1 **REST API** endpoint to register a nickname.

- Logic management :
  - The user sends (through frontend) a nickname **of exactly 3 letters** (A to Z, all capitals. No numbers), no more, no less.
  - If the nickname is **free**
    - we save it then we respond to the user with the nickname he has just registered.
  - If the nickname **is not free**
    - The system finds an available one with the same rules as before (3 letters exactly, A to Z, all capitals, no numbers) we register it, and we respond with this nickname in question. FYI, this auto-attributed nickname does not need to look like the one tried by user.

On **frontend** side you need 1 simple UI

- Logic management :
  - The user can enter a nickname in a simple input and submit it
  - Once submitted the UI display a message indicating (depending the case) that
    - The nickname “XXX” is available and registered
    - The nickname “XXX” wasn’t available so the system automatically gave him an other one : “YYY”

## Work to be done

- Init a git project
- **Store** it on a private repository on Github
- **Develop** the project on a dedicated feature branch
- Create a pull request from your branch to main

- Invite me (<https://github.com/FlorianBruniaux>) on the project and make me PR reviewer

## What we will look at

- The ease of getting into your project (naming, architecture, git history)
- Your breakdown of the problem
- If it works, of course
- And above all, the effectiveness of your solution, in particular the way in which you will find an available nickname when the one requested by the user is already taken

## Next steps

- We debrief your solution, in terms of style, architecture, best practices and efficiency.
- If we think you've missed something important, we'll give you some tips so you can possibly make a second pass.