

# Technical exercises for full-stack senior engineer

## Introduction

Hello and congratulations on passing the interview!

Now, we would like to get an idea of how you write and organize your code. We think that the best way to do so, is to ask you to complete a small technical exercise.

Please pay special attention to this exercise as for us, it is the single most important way of evaluating your technical skills. It is not optional and any failure to complete the exercise will result in immediate disqualification of the candidate.

We are looking for full-stack engineers that can deliver clean, readable, optimized and maintainable code. We also want to make sure that we treat everyone fairly, so this exercise is standardized and it is evaluated against a set of predetermined criteria.

Keep in mind that this exercise is not directly related to our problem domain, but to specific technologies we (plan to) use. Therefore, you are required to complete this task by using technologies listed in the exercise specification - wherever possible.

We are also very respectful of your time and knowledge. We promise not to use your code in our products (remember, you own the copyright to the code!). We promise to provide actionable feedback even if you do not satisfy our criteria and once done, we encourage you to add this code to your portfolio.

Good luck!

## Instructions

Submission deadline	3 days (72 hours) from the moment you received this document
Technologies (where applicable)	<a href="#">Sass (SCSS)</a> <a href="#">Node.js</a> <a href="#">Express.js</a> <a href="#">Next.js</a> <a href="#">Prisma</a> <a href="#">MariaDB</a> <a href="#">Docker</a> <a href="#">Webpack</a> <a href="#">Git</a>
Criteria (where applicable)	Readability and Formatting Clarity Complexity Maintainability Extensibility Security Testability
Submission process	Upload to any git repository and email the link to <a href="mailto:jobs@indexclinic.com">jobs@indexclinic.com</a> with subject line "Technical Exercise - Submission"

## Technical Exercise

Create a dockerized Next.js application that fetches [users](#) and [posts](#) data from JSON placeholder API and visualizes it ([API reference](#)). Paginate the results. Make users editable via a separate page. Make posts editable via modal window. Add login and logout functionality (use hard coded username and pass, no need for DB and no 3rd party authorization - Google, Facebook, etc.). All pages, except Login, should be available only to logged in users. Use component-level Sass via CSS Modules. Pre-render all pages except Login on server-side. Pre-render Login page at build time. Design is up to you, but needs to be responsive and optimized for at least large, tablet and mobile screens.

PLEASE NOTE: Resources will not be updated or deleted on the server, but it will be faked as if.

For any additional questions please contact [armin@indexclinic.com](mailto:armin@indexclinic.com)