Audition Assignment for Engineers - Plotify

If you're reading this assignment then congratulations, you passed the first round of our interview process! 🎉

EXPECTATION

This audition assignment is part of the Plotify interview process. We want to get a better sense of your skills and the thoughts behind your product decisions.

TEST ASSIGNMENT

Every startup goes through several stages. In every stage, there are necessary steps to be accomplished.

Create a simple application that documents this progress.

CORE PRINCIPLES

- We value quality over quantity, be sure your code works
- The code has to be yours and written from scratch. Does not need to be huge, but needs to be yours
- Implement the complexity based on your engineering level. You can leave TODOs and comments in the code, we know the time is limited
- Be sure to provide all the info needed on how to run the code
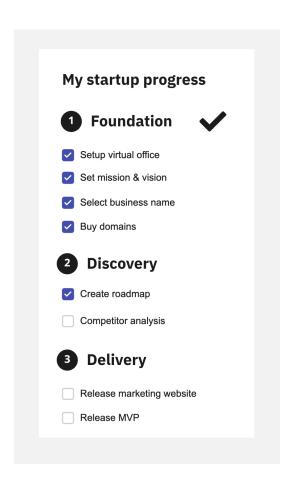
YOUR TIMELINE

This task should take approximately 120 minutes to complete. Please **implement the backend part ideally in Typescript**. Implementing the frontend part is optional.

The assignment is vague on purpose and it's up to you what technologies and approaches you use.

DEADLINE

We know you might have plans for tonight, a planned holiday or you just want to spend time with your family, and that's ok.

That's why we aren't giving you a deadline, instead, we're asking you to set your own deadline that you share with us. But once you set it, we expect you to stick to it.

My startup progress

1 Foundation ✔

- ☑ Setup virtual office
- ☑ Set mission & vision
- ☑ Select business name
- ☑ Buy domains

2 Discovery

- ☑ Create roadmap
- ☐ Competitor analysis

3 Delivery

- ☐ Release marketing website
- ☐ Release MVP

REQUIREMENTS

- Every phase can have an unlimited amount of tasks
- If the startup accomplishes all tasks in the phase, it's marked as done and unlocks the next phase
- Tasks cannot be marked as completed unless all tasks in the previous phase were completed
- Propose and implement a solution how to reopen (undo) a task

REQUIREMENTS - FRONTEND

- Implement in **React**
- Store the progress in local storage
- When all phases are completed, display a random fact from https://uselessfacts.jsph.pl/random.json
- If you're applying for a senior position, be sure to use **Typescript**

REQUIREMENTS - BACKEND

- Implement a GraphQL or REST API using **Node.js**
- Store the progress in memory **(not the database)**
- Design a database schema to store the data (no need to implement)
- If you're applying for a senior position, be sure to use **GraphQL and Typescript**

Happy coding!

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