

Python/JavaScript Full-stack Test Task

Welcome to what.! We are looking forward to working with you on this technical assessment!

The task is to create an application which allows users to authenticate, search for a product and perform simple operations with the search result.

The frontend is supposed to be connected to the backend through a REST API.

This assessment should **require around 4 hours** of your efforts but you can take as little or as much time as you like to work on the task.

We are excited to get a glimpse of how it is to work with you!

Your contacts

- Technical contact: **Sergey G.** - sergey.gordeychuk@what.digital
- Product owner: **Marcus** - marcus@what.digital
- Administrative contacts: **Carina** - carina@what.digital

All communications (chat + calls) should go via the Slack channel that has been created for you - all your contacts are already there..

If you have remarks or questions at any point in time do not hesitate to reach out to us on Slack!

The Task

Important things to consider

- *Please operate under the assumption of a subsequent production release.*
- *It's very important how you communicate before and during the test task: such as providing a clear deadline, asking questions, etc.*
- *The specification is intentionally imperfect, because we're simulating a briefing that we might receive from a client.*

General

Process & Checkpoints

1. Once you have checked the briefing, please let us know your estimated due date of delivery. Should the delivery be delayed please inform us as soon as you know.
2. Deliver the code as a repository on Github, Gitlab or similar. Please be careful about commits, comments and all other details. They will matter for us to see how you work. We care about the quality of the code.
3. Deploy the result on <https://www.divio.com/>
 - You have received an email from Divio for this purpose, please use the Google button to sign up
 - **Note:** You'll be asked to add a credit card on Divio to deploy the project. Divio won't charge anything, they're asking for credit card details to avoid fraud. Feel free to contact us if you don't want to add a credit card and we'll sort it out from our end.
4. Please inform us as soon as we can review your work.
5. We will be in touch with next steps.

Initial Setup

- Frontend JS application made with any framework and toolset you prefer
- Backend application using any Python-based framework

- The UI design is not important for us, but it should be responsive. You're free to use frameworks like bootstrap if you want.

Specification

1. The first screen should be the authentication screen, it should be checked by the backend and accept any entered user credentials
2. The logged in user email should be displayed in the top right corner
3. After login the user should see the empty table of products and the search field
4. The product row should have the following columns: id, name, description, price, stock
5. When user enters a search string, the API request should be sent to the backend
6. User should see the search result after entering each letter to the search field
7. The user should be able to sort the search results by all fields
8. The user should be able to "select" any product, it should trigger request to the backend which marks the product as selected
9. The user session should be saved, so if user re-opens the browser tab then search results / selection and auth session should be restored automatically
10. Add Logout button which clears the session

Tools

- In order to deploy the application on Divio your app should be dockerized
- At what. we use Django+DRF for the backend and Typescript + React + Redux for the frontend, but we don't want to restrict you with that at this point. It's ok if you don't know these tools, you're free to use the most comfortable stack for you. Although please be aware that we'll expect you to learn our preferred tools if we hire you.