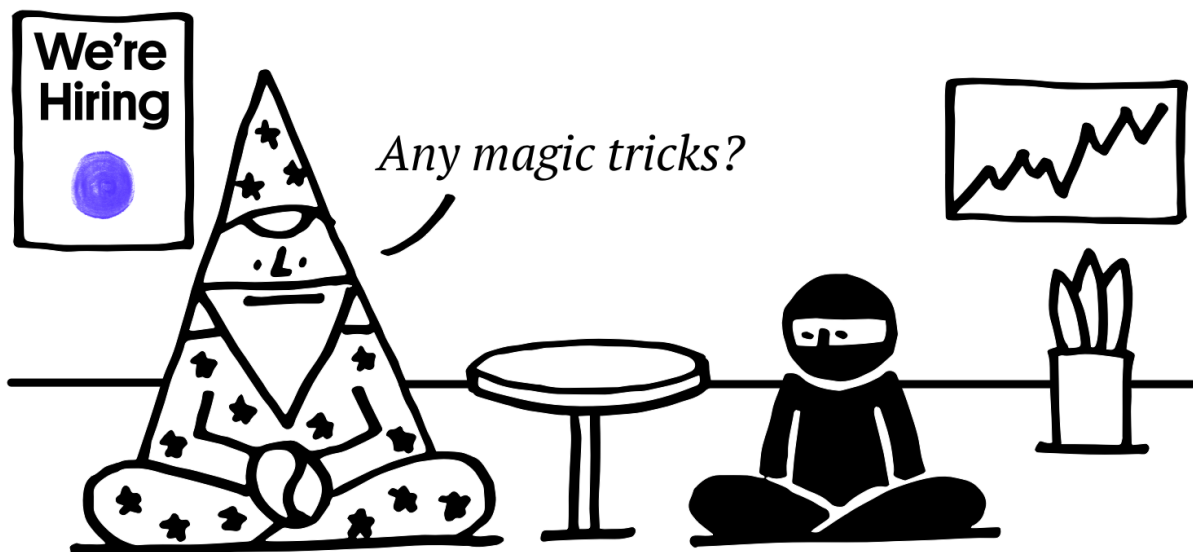




Welcome, Azemina.

Frontend Developer Test Day at d.labs



Dear Azemina,

At our first interview, you made quite an impression on us, which is why we want you to spend a day with us so we can get to know each other.

We hope you'll enjoy today's challenge called **"The one OS to rule them all"**!

Think of what is ahead of you less as an assignment and more as **a job simulation** — one that is helpful both for you to see whether the developer role at d.labs is what you're after and for us to see whether you are a good fit.

Quick tech brief

You'll be building a single-page application, so no need to bother with databases, BE environments, dockers and similar. The application should be easily buildable and runnable from the source files which should be available from a Github repository (public or private via access) with complete history.



Now, **take a breath**, put on your d.labs developer hat and **have fun**!

1 Intro: The one OS to rule them all

You have just received a Slack message from Pete, our salesperson.

Borgoth, a serial entrepreneur with a plethora of mostly failed ventures, has contacted us to work on his new idea. You can find a short brief below:

Mord OS, the operating system to rule them all. Borgoth believes that most entrepreneurs and managers in his line of work require a more tailored operating system. It is possible to work with all the different tooling that is already available but the constant context switch is not productive and staggers the flow of work. He firmly believes that it should be web based so it is virtually available everywhere. At this stage it would serve as an internal tool for his company but he is willing to offer it later, if it receives traction.

2 Product development: Mord OS

Your assignment is to create a graphical user interface for a web based operating system. That couldn't sound more wild than it actually is. **This is an MVP** so functionally it'll be quite far from an OS but it does need to **look and feel like an OS, be appealing and fun to explore**.

Borgoth, being the flaming venture demon, completely understands a lean approach and gives us our full support. However, he believes some **functionalities bring a lot of value**:

Mord OS should support creating and managing plain text files and include a directory mechanic in order to sort the files as one wishes.

There should be a simple authentication feature so not everyone can access the OS. A simple email and password flow will do for now. (*email: borgoth@mordos.com / pass: 12bindthem*)

Borgoth hasn't decided on the look and feel of it yet and he doesn't want us to reinvent the wheel. The OS should **look familiar to other systems** so it doesn't create confusion. He did mention that the web is flooded with generic things so **no visual UI libraries should be used**.

Other functionalities that are not as crucial but could really help enrich the OS:

To keep up with all the news and banter going on, the OS could include a dedicated RSS reader app. (*data source: <https://jsonplaceholder.typicode.com/comments>*)

Having a camera app seems like a must for any OS today.

It would be good if the OS had a Gallery app to view images from different sources without having to switch. (*data source: <https://jsonplaceholder.typicode.com/photos>, but can include others*)

The OS could also have a dedicated web browser. Can be simple at first.

Borgoth isn't limiting us on anything here:

You can enrich the experience as much as you want!



Hint: There is a lot of creative freedom available here, yet just enough boundary to keep it sane. Use that to your advantage: create an experience people would like to use.

3 Delivery

Once you're ready please send the Github repository link (or give access if using a private repo) via email. Make sure to include additional instructions or information.

Try to provide suggestions on **additional features or improvements** that could be implemented and how you would build them.

You can also mention **things you would do differently** or what were some pain points that were giving you trouble.



Hint: **Keep it brief** and don't worry about being formal.