Design System Team - Home Assignment

Welcome to the UI challenge for the Design System team at Neo4j. We are super excited to have you here.

For this challenge, you will implement a simple Password Generator component using our in-house component library Needle.

Our developer documentation is hosted in Storybook, with many resources on how to consume the Needle code library and how to get started (if you have any questions, ask us).

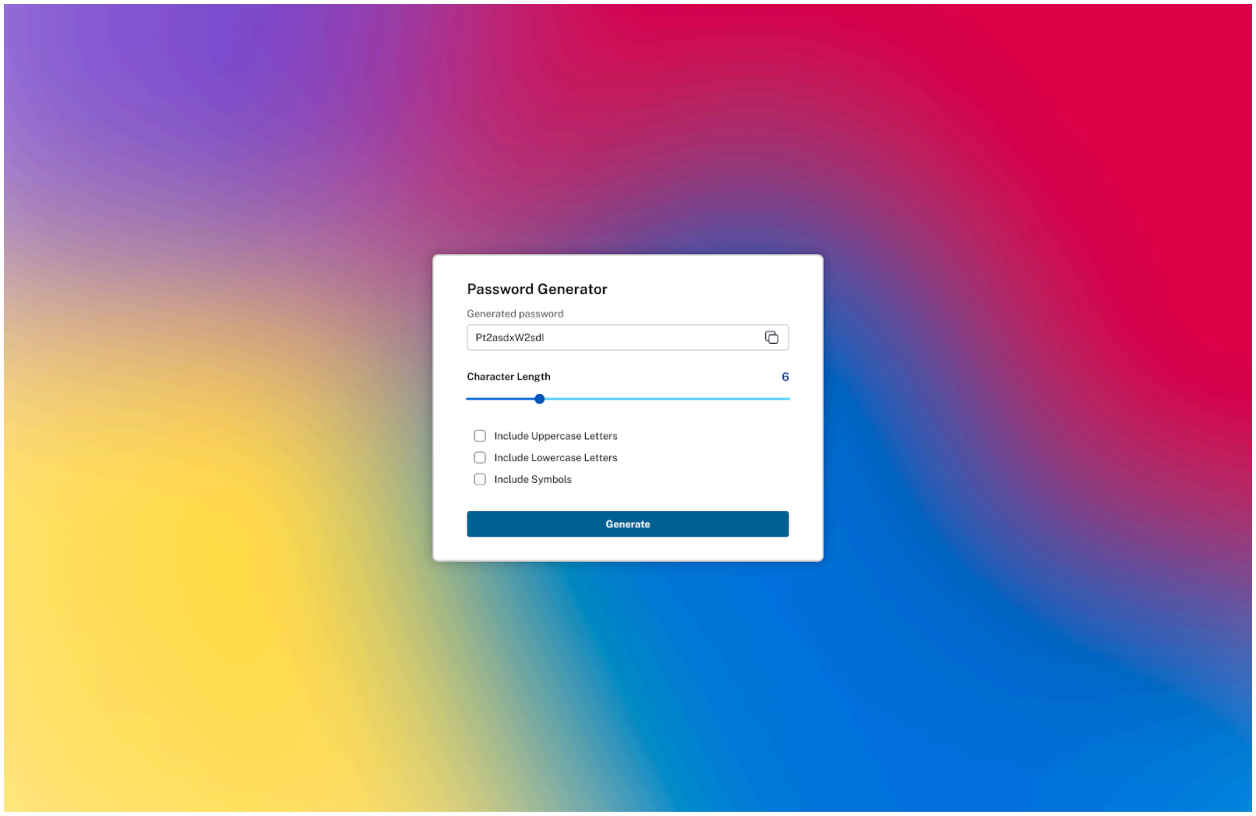
Host the code in a private GitHub repository, and invite basickarl, noahmay as an administrator for this project. Submit your homework assignment at most one week after receiving it.

Part of the task is to set up a project by yourself, so please create a project using any build tool you are comfortable with. However, we would like the project to use TypeScript. We would like to see a project set up so that other people can easily start working with the codebase.

We want to make life easy for each other. This means that we automate tasks where possible, provide just enough documentation to allow people to understand what we've built and keep the surfaces of components as simple as possible. We write code with our future selves in mind -- making it as easy as possible to understand and modify.

Assignment

Implement the following screen with the core being React and TypeScript using as many Needle components as possible from the Needle code library. However, we would like you to construct the Slider component from scratch instead of using the Slider component that is part of the Needle code library.



To inspect the screen's elements, you can use the following Figma file: https://www.figma.com/file/e6lAWY9UqqOTooMd2hhyf3/Design-System-UI-Challenge?type=design&node-id=1%3A3&mode=design&t=WXcnEESLddf5J2E5-1

Password: design-system-ui

Checklist

- ☐ Create a reusable slider component
- ☐ Make sure all checkboxes modify the password generation process
- ☐ Update the password only on explicit password generation, meaning the user pressing the `Generate` button
- ☐ Implement the copy-to-clipboard functionality
- ☐ Ignore the background, it is used just as a placeholder
- ☐ For styling, feel free to use any technology you feel comfortable with
- ☐ Keyboard navigation works

- [ ] Different states for Slider component

Assessment

When assessing the assignment we will look at the whole project. We will especially look at the following points:

- Your facility with the technologies you've used (E.g. tooling you feel would improve the developer experience etc.).
- The comprehensibility and correctness of the code that you have written, including scripts.
- The readability of your commit history.
- Making sure that the system is working as intended using automated tests.
- How easy it is to start working with the codebase.

Things we won't assess:

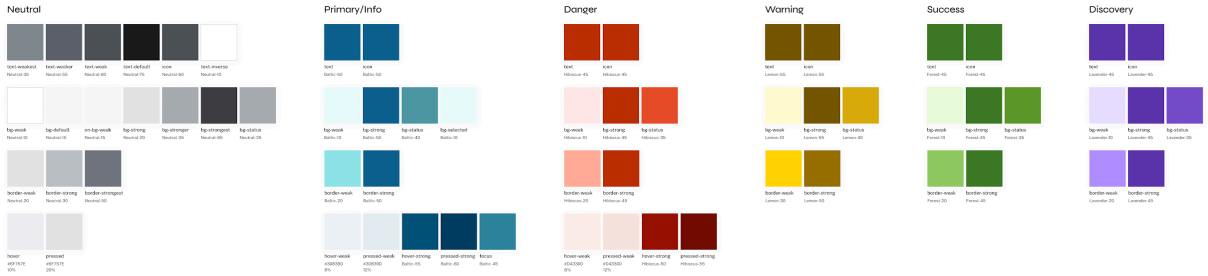
- How long did it take you (although we'd like you to tell us how long you spent on it to help us improve the exercise for future applicants).
- Your telepathy: if anything is unclear, or you need a requirements decision, please ask.
- Adherence to some arbitrary set of secret criteria that we're not telling you about.

Things we'd like to discuss at a follow-up interview:

- The edge cases you have chosen to handle and how you decided to do so.
- The reason for technical decisions you made along the way.
- What would you do differently for a production system?

We have also noticed that when visiting the Neelde website that the following images are not displayed to individuals outside of Neo4j. These can be helpful for mapping colors.

Light theme



Dark theme