

Web Coding Challenge

The following exercises should help us to better assess your skills. We have created an example firebase project that already contains some firestore collections and documents. As you may know, Craftnote uses Google Firebase as its backend, so you'll have to deal with Firebase in the exercises. What do you need?

- A Google Account that we can add to the Firebase exercise project
- The Firebase documentation
<https://firebase.google.com/docs/web/setup>
- Any IDE of your choice

Exercise 1

Create a Register & Login View which asks for Credentials and connect it to the existing Firebase Project. Firstly we need to create an Authentication entry via email. (You can choose a design of your choice)

1. A new User should have the possibility to register an account with email and password. So create a form with both fields and a registration button. Validate the password such that it has at least 8 characters and contains uppercase letters, lowercase letters and numbers. Also make sure a valid email address is entered.
2. Create a second view for users which already have an account. We need to link both views so the user can switch between registration and login.

Exercise 2

We often need to visualize existing data in different forms. There is a collection in the Firestore database of the project named "features", it's about the different type of the features we already have with a significance value called "importance" and a quantity.

Example

featureName: "ordner"

importance: 4.4

quantity: 2

Task

1. Create a bar chart which shows all feature names by quantity. A responsive solution would be very nice, so we can check our feedback also on mobile clients.
2. We need a way to add a new feature to the collection with all the fields which are required (featureName, importance, quantity)

If you have questions about the exercises, you can contact th@craftnote.de at any time. Please prepare the results so that you can present them relaxed in the next meeting.

Good luck and have fun with the exercises!