Ex 6 : Authentication

Starting date: @2020년 11월 9일

Deadline: @2020년 11월 13일

Instructions

In this exercise you will have to add one page : The login / signup. When you click on the the signup button in "I don't have an account yet ? Signup now", it the page to the signup page. The text will change to "Have an account ? Login now". Also if the user already type something in the input, it keeps it from signup to login or to login to signup. For example if the user enter an email, if he click on the signup button when he was on the login page, he will move to the signup page but the email will still be here.

On the signup page, there should be the email, the password, the validation password, the name fields.

You will use the firebase user for the login and signup using the authentication with email/password.

Once that works, you will create a user in the real time database using the id that you get from the firebase authentication. So basically when a user signup, it will create a firebase user and a custom user (real time database) with both the same id. (Because you can't personalized the data link to a firebase user : it only have an email, password, photo and username - later you will have to add the address). Same, one you login you get the token from the firebase user and all the data from the custom user you have create.

Then you will change the rights to write or read in the database (so only people who are allow / are logged) can get data or add data. (So for user read everybody should be allow but not write as for the others entries in the database, they all should be allow only if the user is authenticated

Once that is done you will have to add auto login. So if the user was logged and and the expiration time of the token is still valid, it will automatically log the user in and get the user data.

Objectives

- Login with firebase

- How to use the token

- Get the token and send it

- Link the database user with the firebase user

- Add auto-login

Documentation

You don't have to read all the documentation (because it gonna takes a long time) but you can refers to it when you don't know how to do something or when you have issues.
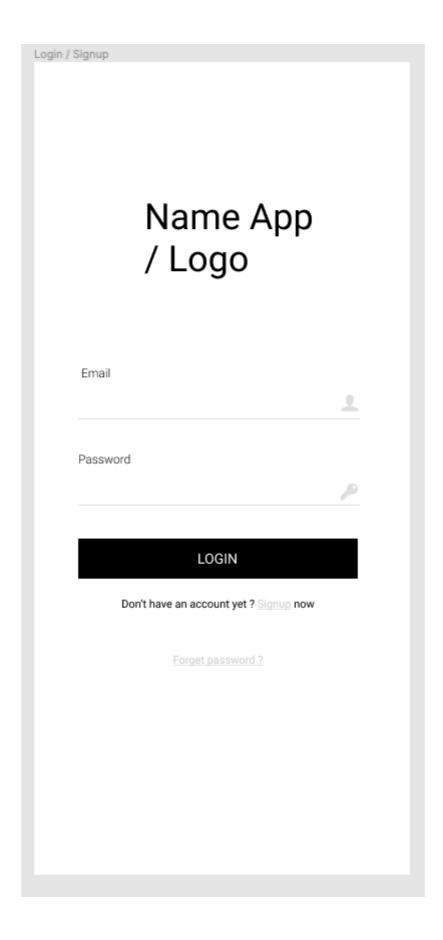
Firebase Authentication

- https://firebase.google.com/docs/reference/rest/auth

Firebase Real Time database rules

- https://firebase.google.com/docs/database/security

Screens

Name App / Logo

Email

Password

LOGIN

Don't have an account yet ? Signup now

Forget password ?

- **Signup / SignIn page**: contains the login form. First there is the logo or app name or both. Then there is the from with 2 inputs email and password. Under the login button, there is a signup button in form of text or login depend on which page you are, then you have the forgot password button.

Realtime database rules

Realtime database have rules. It allow certain users to do be able to do things or not like read or write.

Here you have the general rules : everybody can read but only user who are authenticated can write in the database.

```
{
  "rules": {
    ".read": true,
    ".write": "auth != null",
  }
}
```

Bonus : Add other user information and display it in the settings