Scottish Widows Coding Exercise

Overview

You'll be provided with a partial implementation of an app for registering for online services with Scottish Widows.

As it stands the project comprises:

- a screen with fields for the user's first name and last name, pension type, age, and password.
- a network component that provides an interface for making registration requests.

Today we'd like you to work towards an implementation such that when the user completes the registration form, the validated details are passed to the network component in a format that matches the registration api.

How you implement everything between the ui and network component is up to you.

We'll aim to spend about 45 minutes on the test today.

Tasks

Wire up the screen elements and validate user input

The app should validate content entered by the user. For today's exercise we only require you validate the password field. The password:

- must be between 5 and 10 characters long
- cannot contain any spaces
- cannot contain any of the following strings: [password, 123, letmein]
- cannot contain the same letter three times in a row

Call the network component

The network component defines a `makeRegistrationRequest` method that takes a `RegistrationModel` and transforms that model into the request body json.

The `RegistratonModel` has yet to be implemented and, in order to work, the structure of the `RegistrationModel` must match the structure of the json payload below.

```
{
    "name" : "firstName lastName",
    "pensionType: "personal",
    "age": 17
    "password": "fasd7*%asf"

}
```

Note, that `pensionType` must be one of `[personal, definedBenefit, definedContribution]`.

Implement `RegistrationModel` so that it matches the structure of the json payload, and pass it to the `makeRegistrationRequest` method once the user has entered valid content.

Vary validation rules based on pension type

Pension type may be one of: `[personal, definedBenefit, definedContribution]`

Due to a quirk of the system `personal` pensions do **not** have the same requirements for repeating the same letter three times in a row, or containing the same letter four times or more.

Do not apply these rules if the pension type is `personal`.