Fitness – a Web App with React

Introduction

A new customer who runs a fitness center where several personal trainers work with their individual clients has contacted us. The owner of the fitness center wants us to develop a web app to be used by the personal trainers to create individual workout programs for their clients. Another team does the backend development, and your team can use their work when you develop the front end in React. The backend team have had some problems, but their first release is now ready for the initial development of the front end.

Backend api

The backend is documented with swagger and the api documentation can be found at https://fitnessbackend2022.azurewebsites.net/swagger/index.html

Notice: you do not need to use all the api endpoints.

If you discover any errors in the backend you can report them to per@ece.au.dk.

Technology requirements

The web app must use React as client side framework.

Functional requirements

Develop the front-end for a fitness web app. Personal trainers should be able to create workout programs like the one shown beneath. A workout program is a collection of exercises (workouts) that each have a name, description, number of sets and number of repetitions or time.

Basic functionality:

- The user can login
- The manager
 - Can create users (personal trainers)
- A personal trainer
 - Can create users (clients)
 - Create a new workout program for a client
 - o Can add new exercises to a workout program
 - An exercise has a name, a description, number of sets and number of repetitions or the time it should last.
 - See a list of workout programs.
 - See a specific workout program.
 - See a list of clients.
- A client
 - Can see his/hers workout program.
 - If the user has more than one program then the app will show a list of programs, and the user can then select the program to be displayed.

Workout program example.

Exercise	Description	Set	Reps/time
Squat	Stand with your feet spread shoulder-	3	20
	width apart. Lower your body as far as		
	you can by pushing your hips back and		
	bending your knees. Pause, and then		
	slowly push yourself back to the starting		
	position.		
Push ups	Place your hands on the floor with legs	3	10
	straight out behind you resting on your		
	toes. Bend your arms and slowly		
Plank	Place your elbows on the floor shoulder-	1	30 sec
	width apart with legs stretched out behind		
	you so only your elbows and toes are in		
	contact with the ground. Use your		
	abdominal muscles to keep		

These users are seeded into the database

```
// Manager
    Email = "boss@fitness.moon",
    FirstName = "Manager",
LastName = "The Boss",
    AccountType = Manager,
    Password = "asdfQWER",
// Personal trainers
    Email = "m@fit",
    FirstName = "Superman",
    LastName = "Mars",
    AccountType = PersonalTrainer,
    Password "aQ",
    Email = "w@fit",
    FirstName = "Superwoman",
    LastName = "Venus",
    AccountType = PersonalTrainer,
    Password = "aZ"
// Clients
    Email = "c1@fit",
    FirstName = "John",
    LastName = "Doe",
    AccountType = Models.Enums.Role.Client,
    PwHash = HashPassword("aA", BcryptWorkfactor),
    PersonalTrainerId = 2
    Email = "c2@fit",
    FirstName = "Jane",
    LastName = "Doe",
    AccountType = Models.Enums.Role.Client,
    PwHash = HashPassword("aA", BcryptWorkfactor),
    PersonalTrainerId = 3
```

Formalia

• Group size: 1-3 people

• Deadline: december 3, 2022

Submission

Your submission consists of 2 parts:

- 1. A video where you demonstrate that your app fulfill the requirements.
- 2. Your solution as a zip package as described below.

Before submitting your solution, do the following:

- 1. Delete the node modules folder in the workspace root folder
- 2. Add a file participants.txt and insert a new line for each participant with the AUID and name of each member separated by whitespace
- 3. Add participants.txt to the root folder of your application
- 4. Archive and compress you application using zip. All other formats will result in a request for resubmission.
- 5. The filename should be named <auid_participant_1>-<auid_participant_2> <auid_participant_3>.<archive_compress_format> Example: Alice with AUID au01248
 and Bob with AUID au84210 creates a compressed archive named au01248-au84210.zip
 and uploads it to Brightspace

Example participants.txt contents:

au01248 Alice au84210 Bob