

ASP Fitness

Purpose:

To demonstrate fulfilment of the learning objectives:

- Explain the theory behind and implement authorisation and authentication in a web app
- Be able to use relevant front-end frameworks to develop web apps with a responsive design including use of and knowledge of CSS pre-processors
- Design and implement a REST based web-API
- Design and implement single-page applications with use of client-side MVC framework that communicate with a Restful web-API
- Explain the relevant security concerns and performance optimisations associated with implementing and running a web application

Technology requirements

The web app must use ASP.Net Core as server side framework and must use Entity Framework Core to access a SQL database.

Functional requirements

Implement the API server from assignment 4 in ASP.Net Core (the fitness app with user registration and login). Include your Angular app in your ASP development environment, so it can be served from the same server (as explained here: <https://medium.com/@levifuller/building-an-angular-application-with-asp-net-core-in-visual-studio-2017-visualized-f4b163830eaa>)

Basic functionality:

- New user can sign up with your web app (register)
- User can login and logout
- Users don't have to login to see all programs
- User must login to create a new workout program
- User must login to add new exercises to a workout program
- User must login to log workout activity