Fullstack Developer Assignment Live Coding

Introduction

Congratulations, you made it to the technical interview for the Fullstack Developer position @Eversports 🥳

Context

You are working in the product team at eversports that is maintaining the SaaS software Eversports Manager. You and your team are working on a bunch of features around customer memberships within the current quarter.

The team also started an initiative to modernize the codebase by refactoring features implemented in an old technology stack to a more modern one.

You already modernized the codebase of memberships and implemented features to create a new membership and list all memberships. Based on the feedback the team got in user interviews, they decided to enrich the feature-set around memberships.

Assignment

Task 3: Terminate Membership

Implement a new feature that allows the user to terminate a membership (BACKEND ONLY)

The teams want to build a feature into the membership domain, which enables a user to terminate a membership. The team agreed to the following acceptance criteria for the feature:

- A user can terminate a membership that is currently active or pending
- A user can terminate a membership that is not in the last period of its runtime.
- When a user is terminating a membership, all remaining planned periods of this membership change to state "terminated".

Your task is to implement this feature in the modern codebase. It should be built upon the membership codebase you implemented in task 1.

To make sure the code quality in the modern codebase stays high, you should consider the following aspects:

- You write readable and maintainable code
- You use Typescript instead of Javascript to enabled type safety
- Your code is separated based on concerns
- Your code is covered by automated tests to ensure the stability of the application