One of our clients requested us to build a small UI that displays a list of members (season pass holders) and one-time game tickets that accessed the stadium given a **season and a game**, or a **product code**.

**Exercise 1**

We have already made a .NET Core project to get and return the data; however, it has not been built correctly.

The task will require you to refactor or rewrite the app. The implementation requirements are:

* Apply an appropriate design pattern to get, manipulate and return the data.
* Re-implement the **GetAttendanceListFor** method as it does not return correct data.
* Provide a way to get the attendance list both by **season and a game**, and by a **product code**.
* The API is not secure: anyone can use it. This vulnerability needs to be addressed.
* Write automatic tests.

**Exercise 2**

Create a simple front-end application using Angular 2+ that consumes the API and displays a list of **members/ticket barcodes** per **season and a game**, or **product**. The season and game combination should be selected using dropdowns. The product must be selected using a dropdown as well.