A Simple Web Api
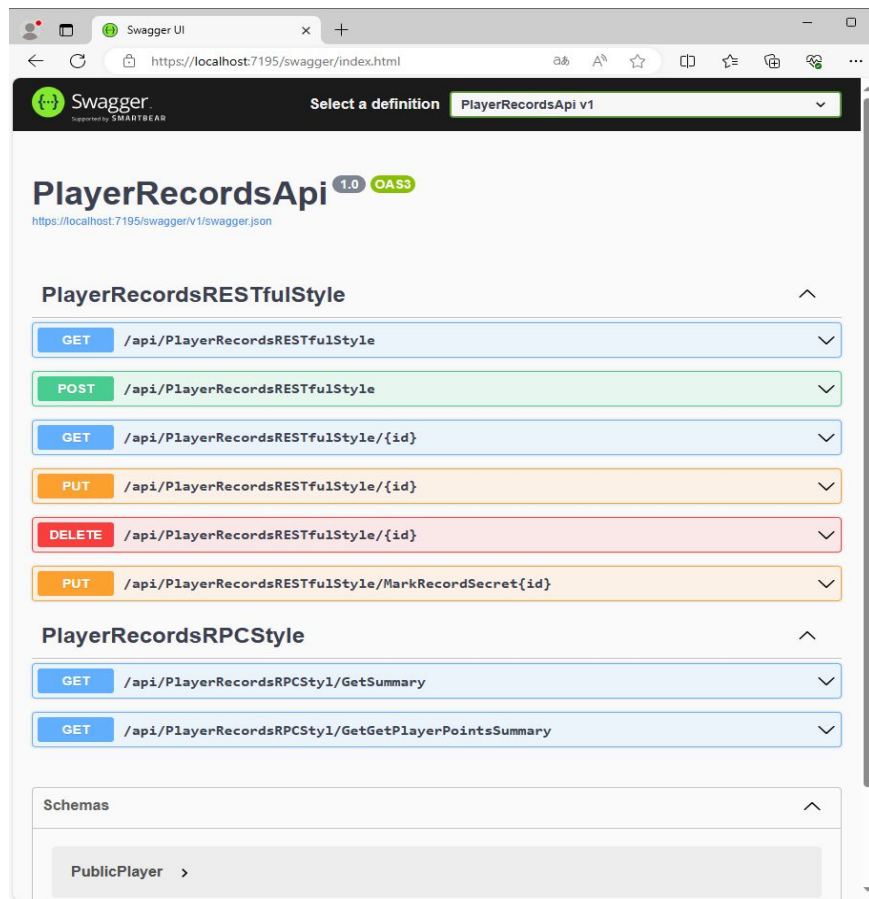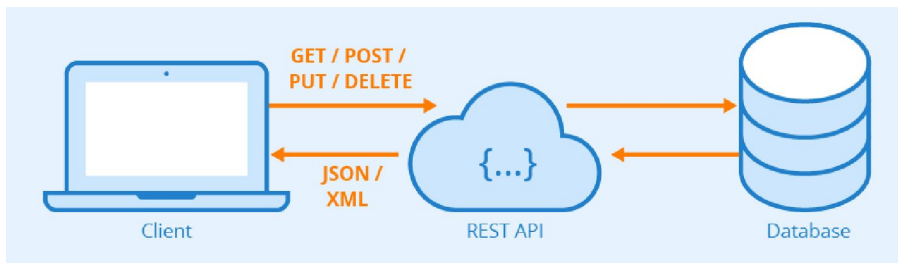

url: https://github.com/JohnBlue-git/PlayerRecordWebApi

Skills:

- Use **Microsoft.AspNetCore.Mvc** to create a web api.
- Utilize **Swagger** to test api and generate api specification document.
- Unit test: **xUnit (reflection & private methods)**.
- Set the access modifiers thoroughly: **public, private, internal**.
- Understand **Task, async and await.**
- Adopt **LINQ** and use correctly without interfering original content.
- Use **ModelState** to store model status or to return as response content.
- Utilize concurrent data structure to **prevent racing conditions**.

Difficulties:

- It is not uniform that what http response will AspNetCore.Mvc return when http error happend. That also make unit test regard handling http error become tricky.
- Static data is used as storage rather of a SQL database, making unit test result unrepeatable when many tests are performed simultaneously.