I have developed the .NET Core Web Api with .Net Core 6.0, EF Core and SQL Server Database.

I have tested the enpoints with Swagger and XUnit test.

Below are the highlights:

**Highlights/Approach**:

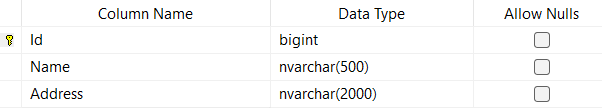
* Used the **Database First** approach of **Entity Framework Core**.
* Designed the database tables and its relationship
* Generated Models with **Scaffold-DbContext** and DTO objects.
* Implemented **Repository Pattern** to implement the Web Api endpoints.
* Created **XUnit** Test project to test some of the WebAPI Endpoints.
* Used **Swagger and Postman** to test all API End points.
* Used **FluentValidation** to validate input fields provided in json.

I have provided screenshots of the testing done with results.

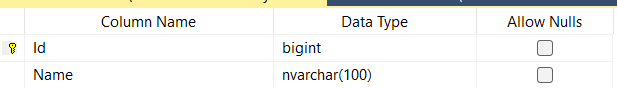
SQL tables scripts are provided to recreate the tables



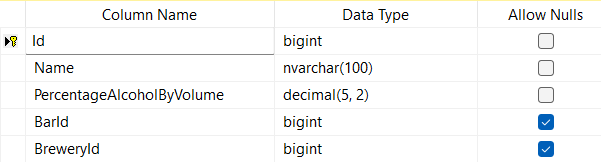
**Bar Table**



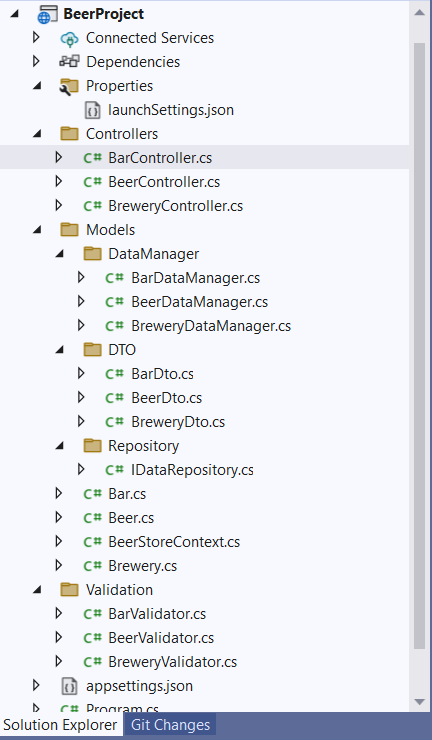
**Brewery Table**

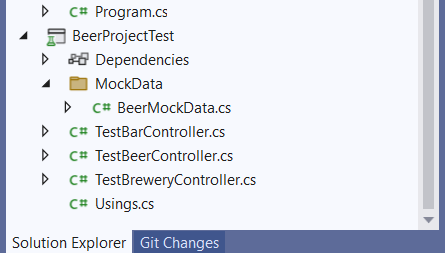


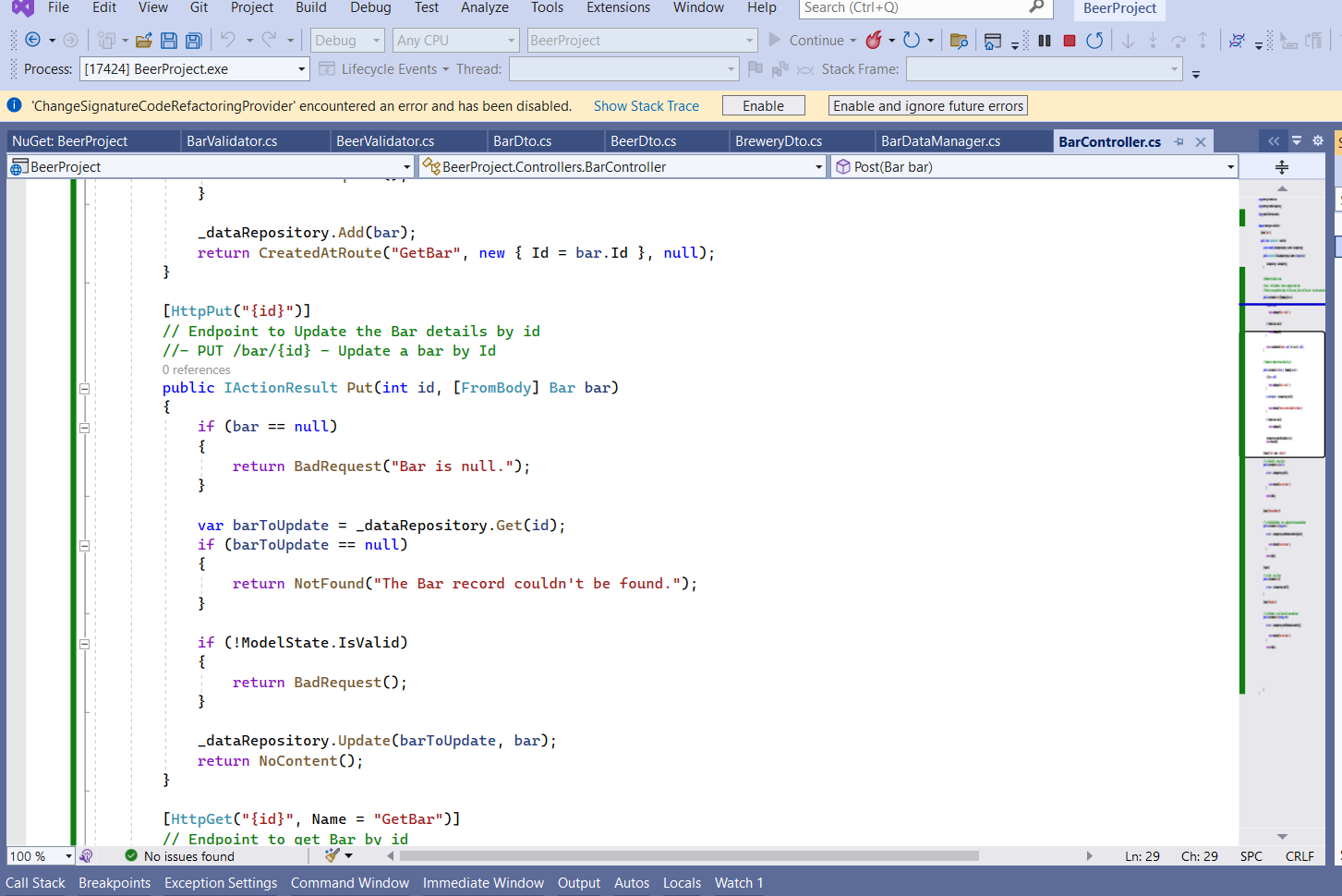
**Beer Table**

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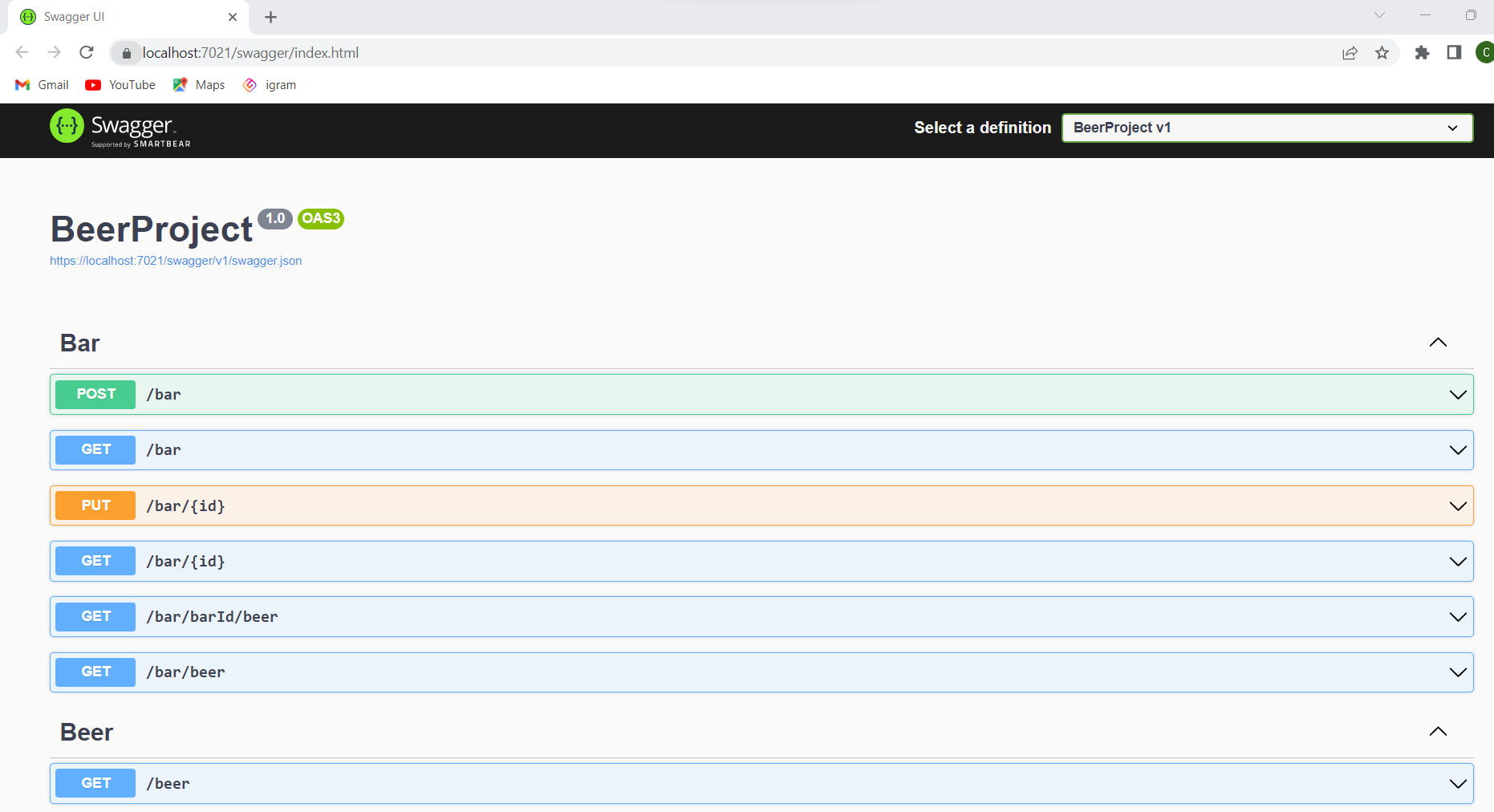
**Project files and structure:**

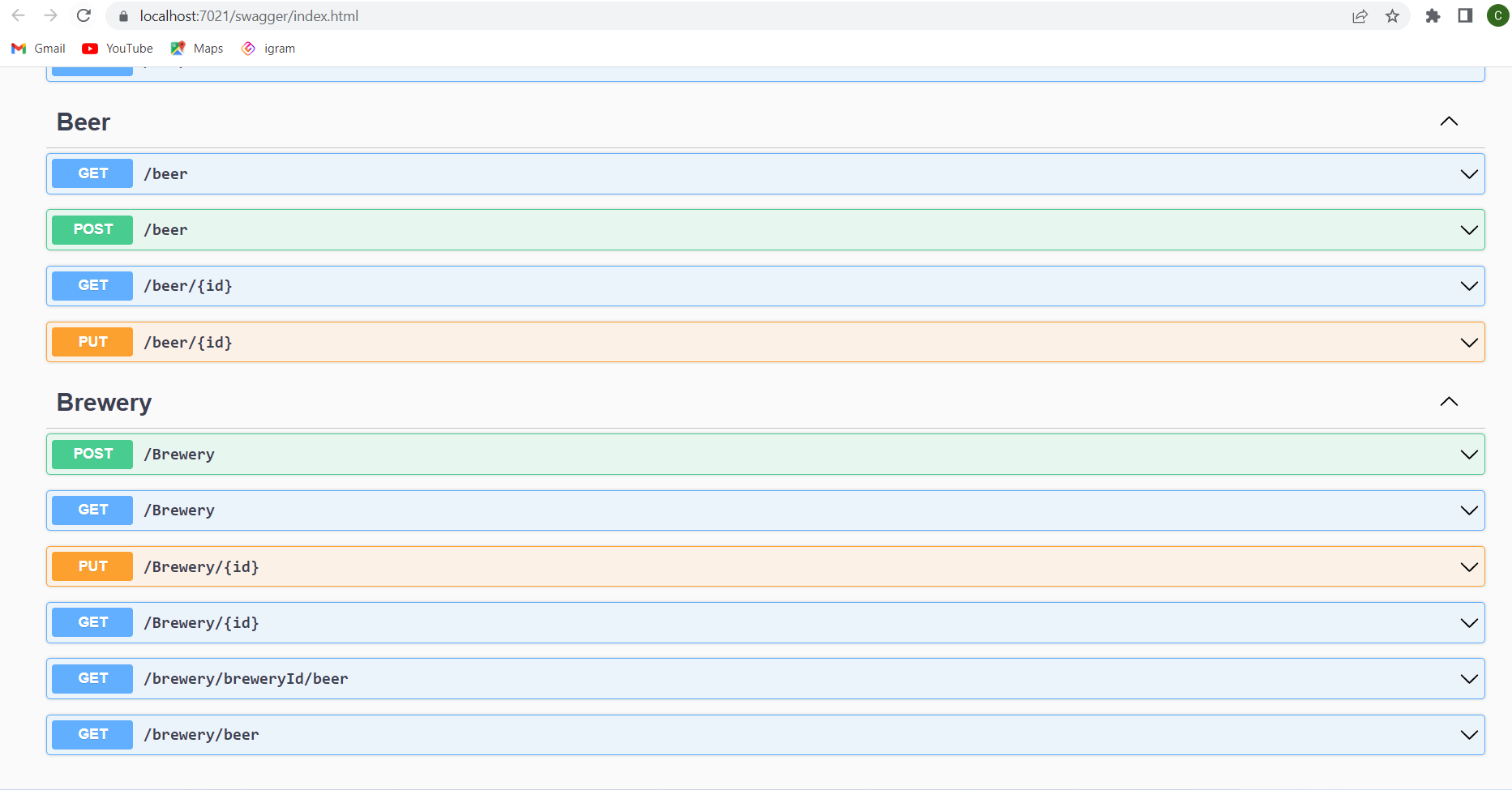




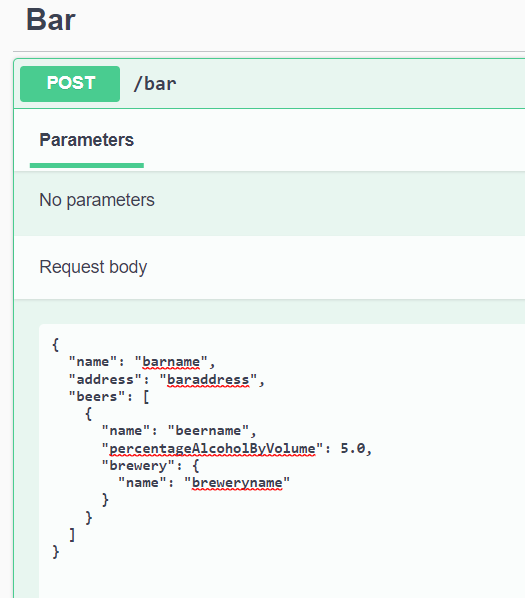


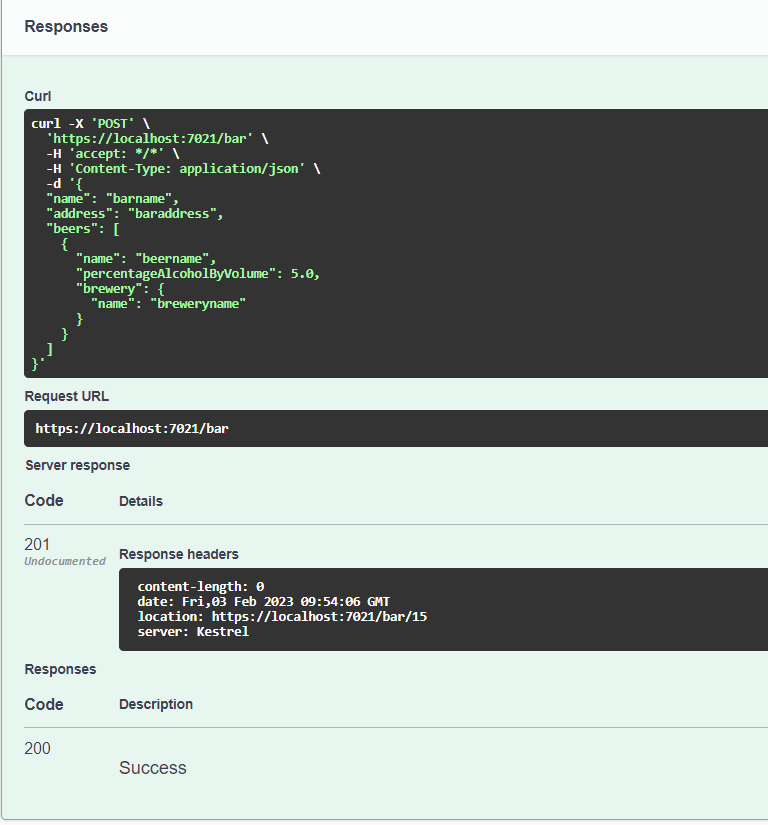
**Testing Artifacts:**



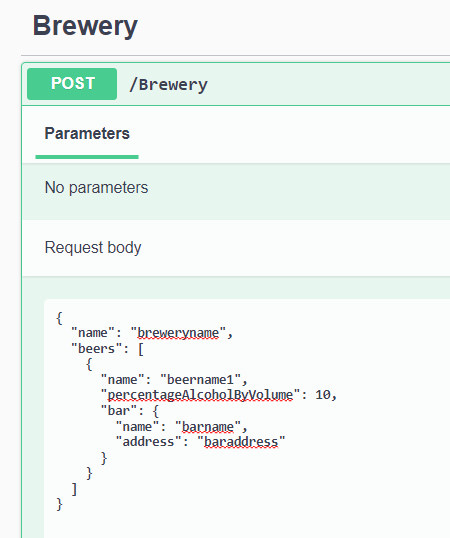


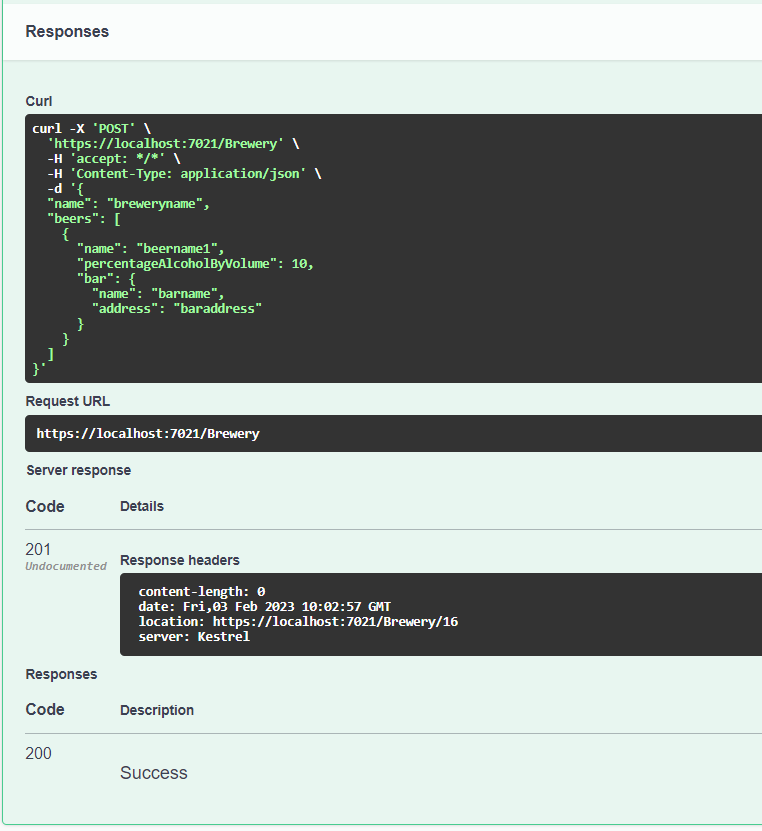
**- POST /bar/beer - Insert a single bar beer link**



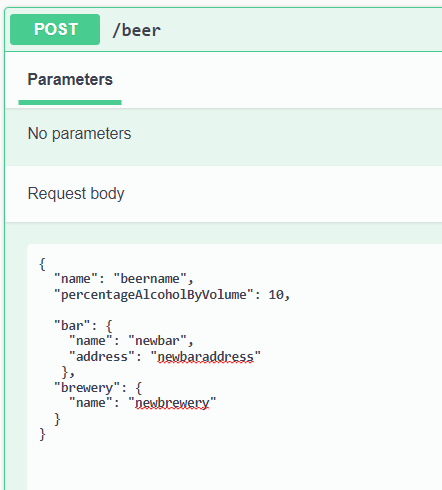


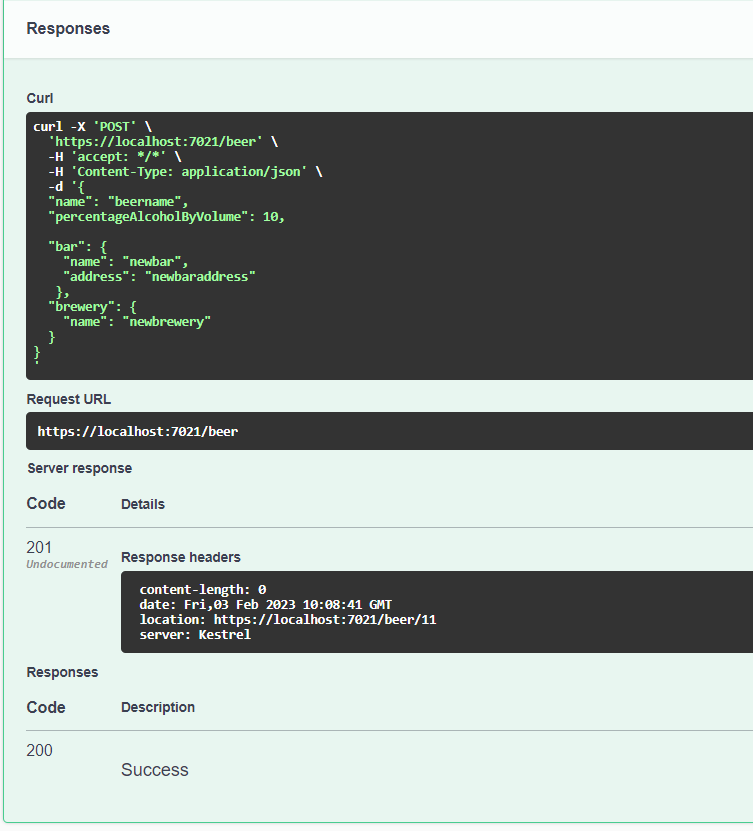
**- POST /brewery/beer - Insert a single brewery beer link**

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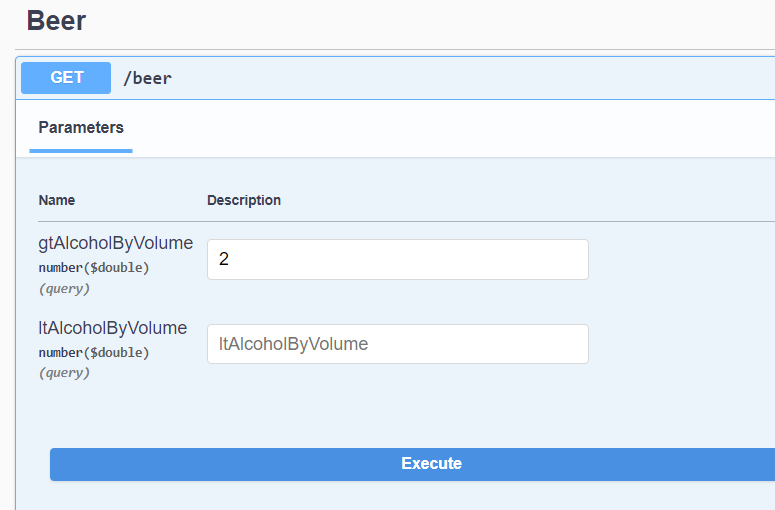


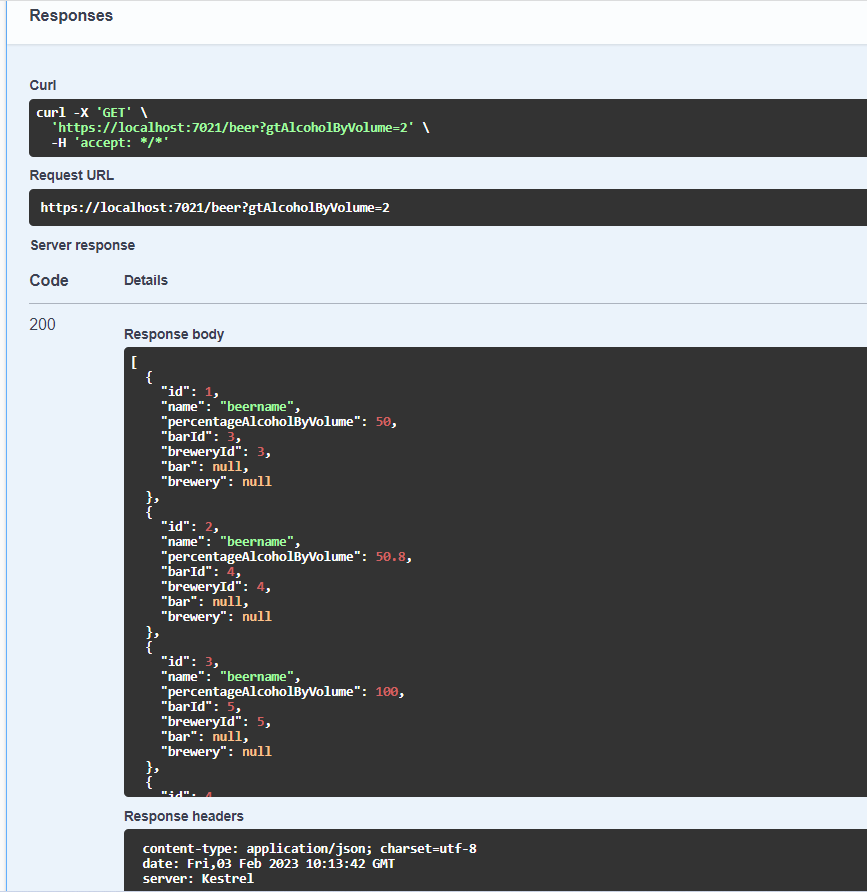
**- POST /beer - Insert a single beer**

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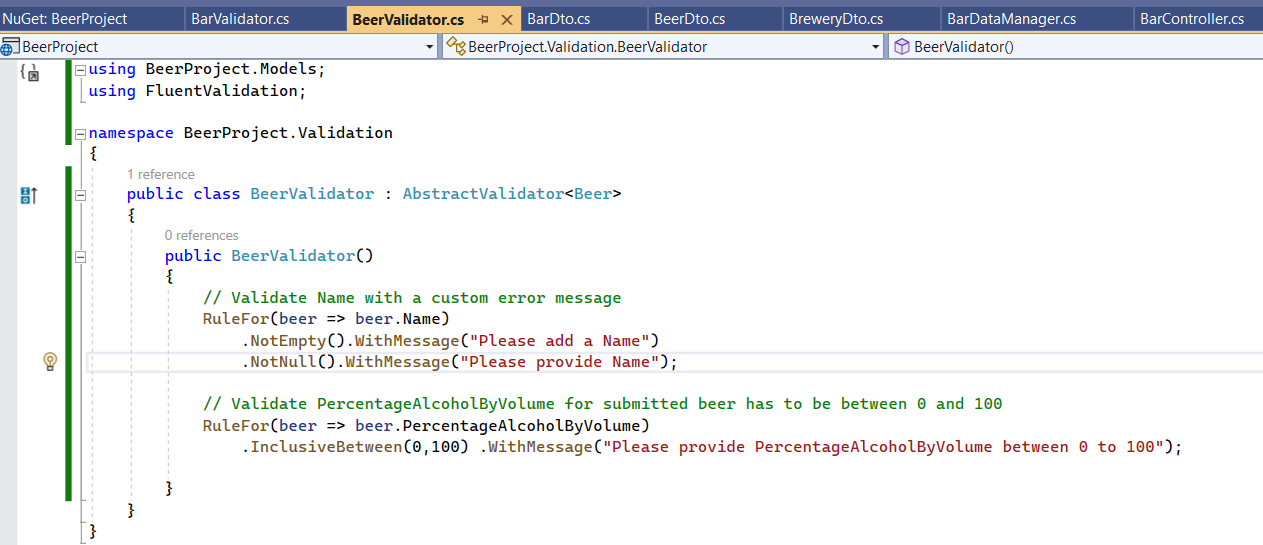
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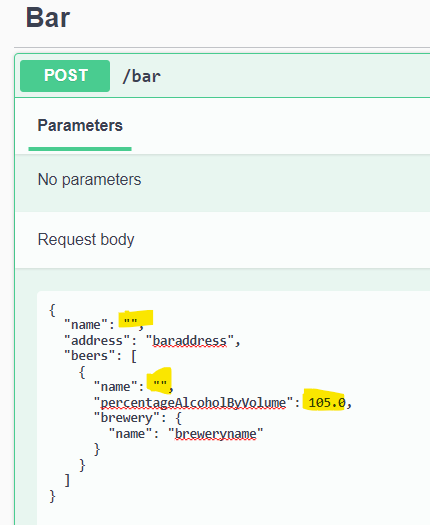
**- GET /beer?gtAlcoholByVolume=5.0&ltAlcoholByVolume=8.0 - Get all beers with optional filtering query parameters for alcohol content (gtAlcoholByVolume = greater than, ltAlcoholByVolume = less than)**

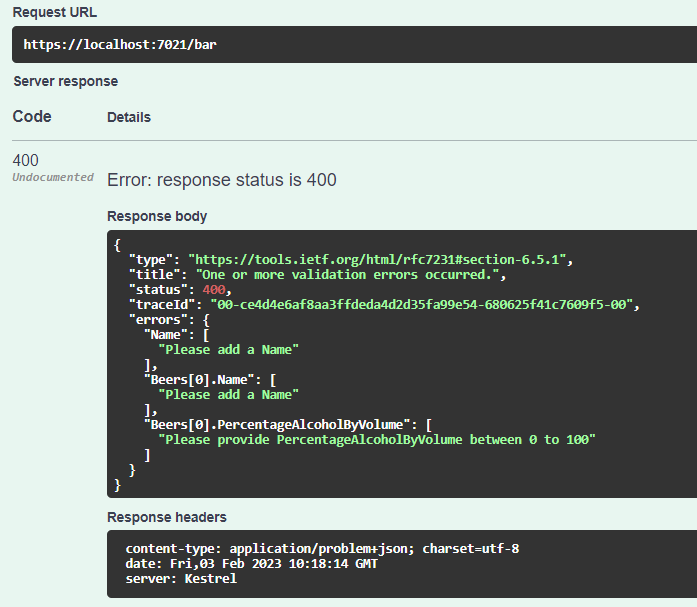




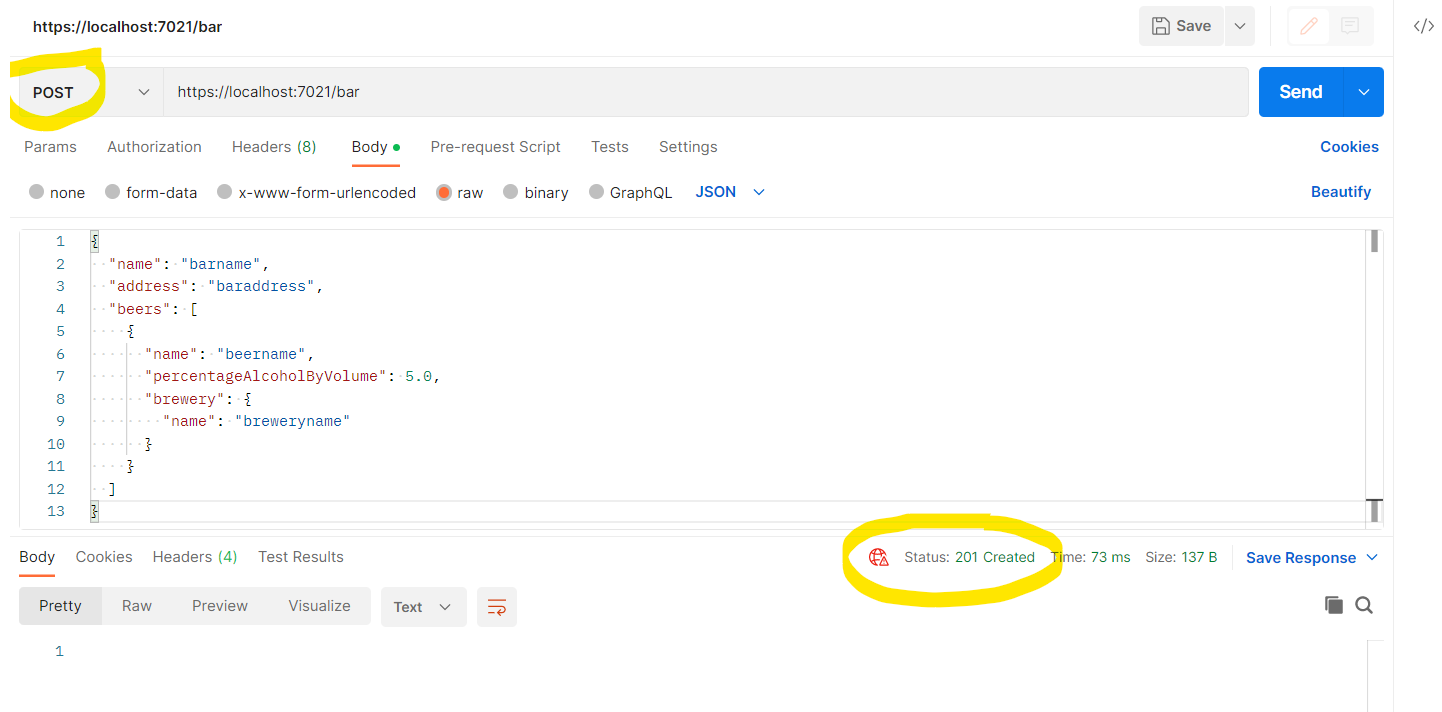
**Validations**:







**Testing With Postman:**



**Testing With xUnit Test:**

