**Booking Agency Documentation**

For this project, I used third party like DevExpress ASP.NET MVC to show all data using gridview to make it easier. I also don’t use database for this solution and only use collection such as List.

I’m using some of design patterns to separate models, repositories, and services. I also separate the business layer and web layer. The project solution already made for IoC and DI but I don’t use any third-party library for DI such as Autofac or Unity.

I only make one UI page for all the functions there is:

1. Booking Appointment
2. Show Booking Appointment By Date,
3. Grid All Booking Appointments
4. Set Off Days
5. List Off Days

Here’s the list of NuGet package manager that I’ve used in this project, ie:

1. Swashbuckle for Swagger API Documentation
2. Microsoft.AspNet.WebApi for API
3. Microsoft.AspNet.WebApi.Client for API
4. Microsoft.AspNet.WebApi.Core for API
5. Microsoft.AspNet.WebApi.WebHost for API
6. Microsoft.AspNet.WebApi.Cors for API
7. NUnit for Unit Test
8. NUnit3TestAdapter for Unit Test
9. Moq for Unit Test

For the unit testing, I make 3 Unit Tests for Controllers, Repositories, and Services

1. AppointmentsControllerTest
2. BookAppointment\_Should\_Return\_Ok\_With\_Appointment\_When\_Successful
3. BookAppointment\_Should\_Return\_BadRequest\_When\_Exception\_Occurs
4. GetAppointments\_Should\_Return\_Ok\_With\_Appointments
5. SetOffDay\_Should\_Return\_Ok\_With\_OffDay
6. GetOffDays\_Should\_Return\_Ok\_With\_OffDays
7. AppointmentRepositoryTest
8. AddAppointment\_Should\_Add\_Appointment
9. GetAppointments\_Should\_Return\_Appointments\_For\_Given\_Date
10. AddOffDays\_Should\_Add\_OffDays
11. AppointmentServiceTest
12. BookAppointment\_Should\_Add\_Appointment\_If\_Date\_Is\_Valid
13. BookAppointment\_Should\_Throw\_Exception\_If\_Date\_Is\_OffDay
14. AddOffDay\_Should\_Add\_OffDay\_If\_Date\_Is\_Valid
15. AddOffDay\_Should\_Throw\_Exception\_If\_Date\_Is\_Already\_OffDay

**Booking Agency Application**

A screenshot of a computer

Description automatically generated

**Swagger UI Documentation**

A screenshot of a computer

Description automatically generated