

# Udemy course: Ultimate ASP.NET pt. 6

## Creating Additional API Behaviours

### #35. Scaffolding Controller and Actions

- we create a new API controller with Entity Framework
  - below Controller we add file HotelController
  - we select Hotel (HotelListing API Data) as Model
    - if we use Visual Studio with the Scaffolding feature
- this time I use Visual Studio Code template
  - **api-controller-async**
- about our GetHotels
  - (created by Course instructor via Visual Studio -> API controller with Entity Framework)
  - with the created controller: we get also the details of the country!
    - this is like a recursive loop
    - we don't want that
  - **instead we use the Data Transfer Object** to shape the data in the way we want
    - we wouldn't include the details

### #36. Setup Repository

- in this section we work on our Hotel repository
  - to replace the datacontext in the controller
- again we start with the interface in Contracts/IHotelRepository.cs
  - then the implementation of that in Repository folder
    - HotelsRepository
    - again we inherit that from IGenericRepository, but now with object Hotel
- again we need an extra line in Program.cs to register the HotelRepository
  -

```
builder.Services.AddScoped<IHotelsRepository, HotelsRepository>();
```

- I am wondering
  - don't we need the AutoMapper in the HotelController?
  - we will need the mapper later on
- instead of blindly following the video:
  - I compare what we did before with Countriescontroller
  - I also already create or extend the Datatransferobject of Hotels
  - when it is required/useful I look onto the solution code and make notes
- what I note:
  - in the BaseHotelDto
    - for the CountryId we put following attributes, after [Required]
    - **to include a number in range 1 to max Int!**
    -

```
[Range(1, int.MaxValue)]  
  
public int CountryId { get; set; }
```

- not sure whether I noted that in the countriesController before:
  - but in both Delete and Put we return **NoContent()**
- also we think about the MapperConfig of the HotelsDto
  -

```
CreateMap<Hotel, HotelDto>().ReverseMap();  
  
CreateMap<Hotel, CreateHotelDto>().ReverseMap();
```

- Testing what works easily - what doesn't at first
  - Get all Hotels
    - works
  - Get by Id
    - with 3 gives success statuscode 200
    - but no result
    - easy error: I didn't return any result! So I put:

```
return Ok(record);
```

- works now
- POST
  - I test with values that should work
  - and get error status 500
  - **No route matches the supplied values**

```
System.InvalidOperationException: No route matches the supplied values.
```

  - seeing this error, I suspect it might be something with the routes or other configuration
  - **but no, one actual error** was:
    - > my method to get a Hotel by id is not called GetHotel, but GetHotelById, so I had to put this in the POST method:

```
return CreatedAtAction("GetHotelById", new {id = hotel.Id}, hotel);
```
  - but it was still not all; still the same error
    - > I noticed it adds the hotels, but the status code is showing status code 500
    - > **I changed the action name to GetHotel and restarted**
    - > **now it works!?** Was it really this?
- PUT
  - works
- DELETE
  - works correctly

### #37: Setup Data Transfer Object and Refactor Controller

### # 38: Testing

- with PUT method
  - if id's don't match, we get a status error **400 Bad Request**
  - that is because we return BadRequest();
  - in Put Action
  - we could consider changing that