

How to customize error response in web api with .net core?

I am using .net core 2.2 with web api. I have created one class i.e. as below :

```
1 public class NotificationRequestModel
{
    [Required]
    public string DeviceId { get; set; }
    [Required]
    public string FirebaseToken { get; set; }
    [Required]
    public string OS { get; set; }

    public int StoreId { get; set; }
}
```

Using above class I have created one method. Now I want to return custom object but it's return it's own object. API method is :

```
public ActionResult<bool> UpdateFirebaseToken(NotificationRequestModel model)
{
    if (!ModelState.IsValid)
    {
        return BadRequest(FormatOutput(ModelState.Values));
    }
    var result = _notificationService.InsertOrUpdateFirebaseToken(model);
    return Ok(result);
}
```

Here `FormatOutput` method is format the output.

```
protected Base FormatOutput(object input, int code = 0, string message = "", string[]
details = null)
{
    Base baseResult = new Base();
    baseResult.Status = code;
```

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```
    return baseResult;  
}
```

But the issue is it returns :

```
{ "errors": { "Deviceld": [ "The Deviceld field is required." ] }, "title": "One or more validation errors occurred.", "status": 400, "traceld":  
"800000049-0001-fc00-b63f-84710c7967bb" }
```

I want to customize this error with my model. I need error message and details from return output and passed it to my model. How can I do that? I had try to debug my code and found that breakpoint on API method is not calling. So I can't handle my custom method. Is there any solution? What am I doing wrong? Any help will be much appreciated. Thank you.

[asp.net-core](#)[model](#)[asp.net-core-webapi](#)

asked Mar 1 at 10:00



[Srusti Thakkar](#)

732 8 31

2 Answers



As Chris analyzed, your issue is caused by [Automatic HTTP 400 responses](#).

1

For the quick solution, you could suppress this feature by



```
services.AddMvc()  
    .ConfigureApiBehaviorOptions(options => {  
        options.SuppressModelStateInvalidFilter = true;  
    }).SetCompatibilityVersion(CompatibilityVersion.Version_2_2);
```



For a efficient, you could follow suggestion from Chris, like below:

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```
        return new BadRequestObjectResult(FormatOutput(modelState));  
    };  
}).SetCompatibilityVersion(CompatibilityVersion.Version_2_2);
```

And, there is no need to define the code below any more in your action.

```
if (!ModelState.IsValid)  
{  
    return BadRequest(FormatOutput(ModelState.Values));  
}
```

answered Mar 4 at 6:13



[Tao Zhou](#)

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2

When utilizing a controller with the `ApiController` attribute applied, ASP.NET Core *automatically* handles model validation errors by returning a 400 Bad Request with `ModelState` as the response body. As such, your conditional testing `ModelState.IsValid` is essentially always false (and therefore not entered) because the only requests that will ever get this far are valid ones.



You could simply remove the `ApiController` attribute, but that removes a bunch of other beneficial stuff the attributes adds as well. The better option is to use a custom response factory:

```
services.Configure<ApiBehaviorOptions>(o =>  
{  
    o.InvalidModelStateResponseFactory = actionContext =>  
        new BadRequestObjectResult(actionContext.ModelState);  
});
```

That's essentially what's happening by default, so you'd simply need to change the action provided there accordingly to customize it to your whims.

answered Mar 1 at 15:36



[Chris Pratt](#)

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