**Model Validation in ASP.NET Web API**

## Data Annotations

In ASP.NET Web API, you can use attributes from the [System.ComponentModel.DataAnnotations](http://msdn.microsoft.com/en-us/library/system.componentmodel.dataannotations.aspx) namespace to set validation rules for properties on your model. Consider the following model:

using System.ComponentModel.DataAnnotations;

namespace MyApi.Models

{

public class Product

{

public int Id { get; set; }

[Required]

public string Name { get; set; }

public decimal Price { get; set; }

[Range(0, 999)]

public double Weight { get; set; }

}

}

If you have used model validation in ASP.NET MVC, this should look familiar. The **Required** attribute says that the Name property must not be null. The **Range** attribute says that Weight must be between zero and 999.

To apply this filter to all Web API controllers, add an instance of the filter to the **HttpConfiguration.Filters** collection during configuration:

public static class WebApiConfig

{

public static void Register(HttpConfiguration config)

{

config.Filters.Add(new ValidateModelAttribute());

// ...

}

}

Another option is to set the filter as an attribute on individual controllers or controller actions:

public class ProductsController : ApiController

{

[ValidateModel]

public HttpResponseMessage Post(Product product)

{

// ...

}

}