Setting up for Validation

We can add rules to model classes to make certain fields required if we like. Also, we can force a certain field to be in a certain format and supply the error message.

Here is an example for a model called Customer:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
namespace WebApplication3.Models
                                           or you will get an error.
   public class Customer
       public int CustomerID { get; set; }
[Required(ErrorMessage = "Please enter your name.")]
       public string Name { get; set; }
       [Required(ErrorMessage = "Please enter your email address.")]
       [EmailAddress(ErrorMessage = "Please enter a valid email address")]
       public string Email { get; set; }
       [Required(ErrorMessage = "Please enter your phone number.")]
       [Phone(ErrorMessage = "Please enter a valid phone number.")]
       public string Phone { get; set; }
    }
```

https://docs.microsoft.com

- [CreditCard]: Validates the property has a credit card format.
- [Compare]: Validates two properties in a model match.
- [EmailAddress]: Validates the property has an email format.
- [Phone]: Validates the property has a telephone format.
- [Range]: Validates the property value falls within the given range.
- [RegularExpression]: Validates that the data matches the specified regular expression.
- [Required]: Makes a property required.
- [StringLength]: Validates that a string property has at most the given maximum length.
- [Url]: Validates the property has a URL format.

In MVC, validation happens on **both the client and server**.

Non-string value types (such as decimal, int, float, and DateTime) are inherently required (non-nullable) and don't need the Required attribute.