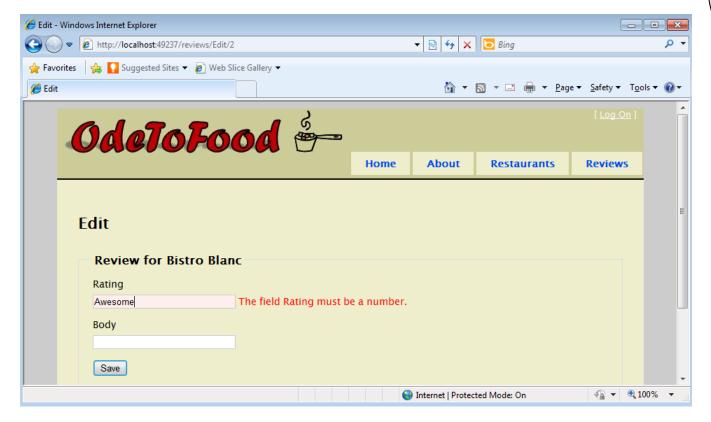
Building Applications with ASP.NET MVC

Data part 2 of 2 K. Scott Allen



Data (Part II)





Model Binding

Entity Mapping



Mapping

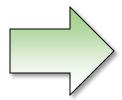
When the database doesn't match conventions ...

```
public class OdeToFoodDB : DbContext
    protected override void OnModelCreating(ModelBuilder modelBuilder)
        modelBuilder.Entity<Restaurant>()
                    .Property(r => r.ID).HasColumnName("restaurant id");
        modelBuilder.Entity<Restaurant>()
                    .HasMany(restaurant => restaurant.Reviews)
                    .WithRequired(review => review.Restaurant);
        modelBuilder.Entity<Review>()
                    .ToTable("tbl Reviews");
        base.OnModelCreating(modelBuilder);
    }
```



Model Binding





HTTP POST /Review/Create
Rating=7&Body=Great!

DefaultModelBinder



```
public ActionResult Create(Review newReview)
{
    // ...
}
```



Validation with Annotations

- Attributes defined in System.ComponentModel.DataAnnotations
- Covers common validation patterns
 - Required
 - StringLength
 - Regex
 - Range

```
public class LogOnModel
{
    [Required]
    public string UserName { get; set; }

    [Required]
    public string Password { get; set; }

    public bool RememberMe { get; set; }
}
```



Custom Validation

- Custom attributes
- IValidatableObject (self validation)

```
[AttributeUsage(AttributeTargets.Property)]
public sealed class MinLengthAttribute : ValidationAttribute
   // ...
    public override bool IsValid(object value)
        string valueAsString = value as string;
        return (valueAsString != null &&
                valueAsString.Length >= minCharacters);
```

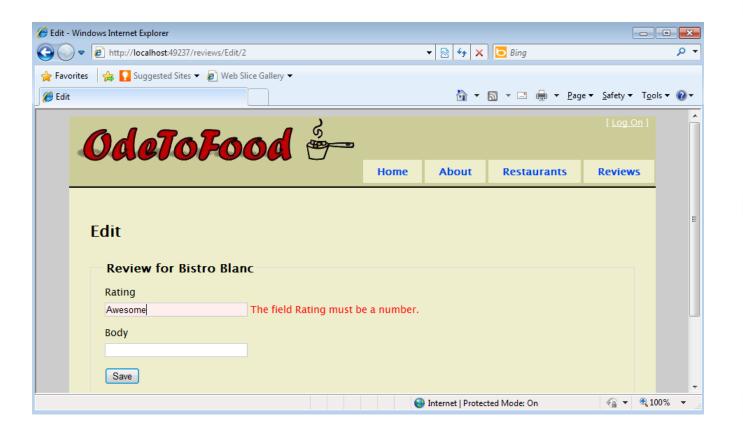


Display / Edit Annotations

Attribute	Description
DisplayColumn	Specify the property of a model class for simple text display.
HiddenInput	Render value in a hidden input (when editing).
UIHint	Specify the name of the template to use for rendering.
DataType	Common templates (email, password, URL, currency)
ReadOnly	Specify a read-only property (for model binding).
DisplayFormat	Format strings and null display text
ScaffoldColumn	Turn off display and edit capabilities
DisplayName	Friendly name for labels



Summary



Entity Mapping

Model Binding

Validation

