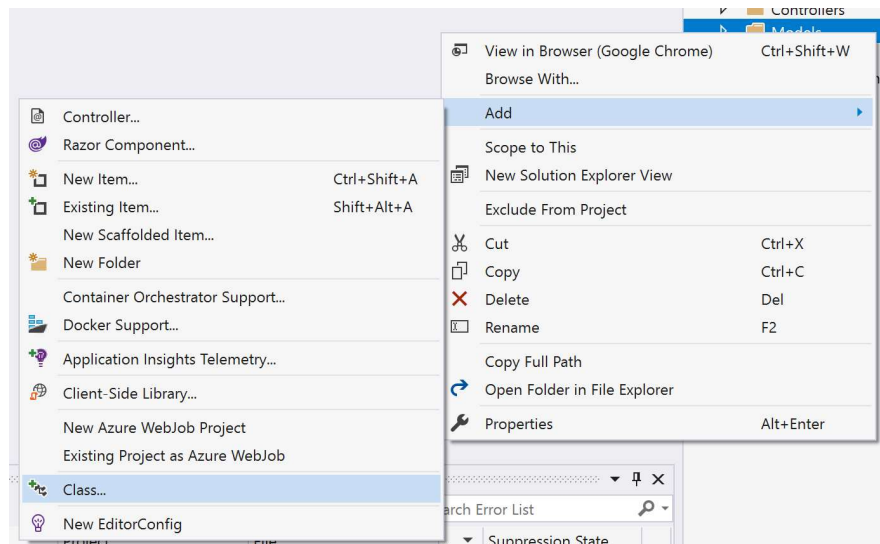
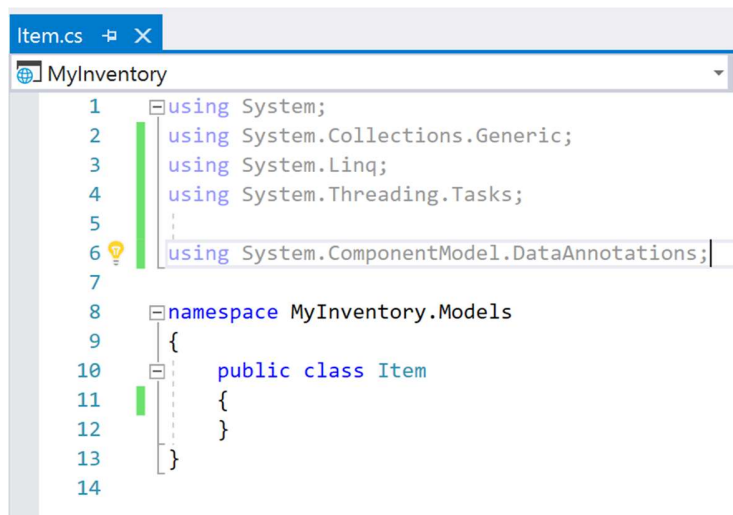


Creating an Entity Model

1. From the **Solution Explorer**, right-click **Models** > **Add** > **Class...**



2. From the **Add New Item** window, name it **Item.cs**.
3. From **Item.cs**, add the namespace **System.ComponentModel.DataAnnotations**.



4. Add the corresponding property names and their values.

```

public class Item
{
    public int ItemId { get; set; }

    public string Name { get; set; }

    public string Code { get; set; }

    public string Description { get; set; }

    public decimal Price { get; set; }

    public DateTime DateAdded { get; set; }

    public DateTime? DateModified { get; set; }
}

```

5. Include a list of item types.

```

public enum ItemType {
    RawMaterials = 1,
    Intermediate = 2
}

```

6. Include a property **Type** from the **Item** model

```

public class Item
{
    public int ItemId { get; set; }

    public string Name { get; set; }

    public string Code { get; set; }

    public string Description { get; set; }

    public decimal Price { get; set; }

    public DateTime DateAdded { get; set; }

    public DateTime? DateModified { get; set; }

    public ItemType Type { get; set; }
}

```

7. Include the necessary **Key**, **Required**, and **Display**, **DataType** attributes for each property.

```

public class Item
{
    [Key]
    public int ItemId { get; set; }

    [Required(ErrorMessage = "Required.")]
    public string Name { get; set; }

    public string Code { get; set; }

    [DataType(DataType.MultilineText)]
    public string Description { get; set; }

    [Required(ErrorMessage = "Required.")]
    public decimal Price { get; set; }

    [Display(Name = "Date Added")]
    public DateTime DateAdded { get; set; }

    [Display(Name = "Date Modified")]
    public DateTime? DateModified { get; set; }

    [Display(Name = "Item Type")]
    public ItemType Type { get; set; }
}

```

8. Save the file.
9. From the **Solution Explorer**, open **Data > ApplicationDbContext.cs**.
10. Update the class to include a property name **Items** of data type **DbSet**.

```

public class ApplicationDbContext : DbContext
{
    public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options)
        : base(options)
    {
    }

    public DbSet<Item> Items { get; set; }
}

```

11. Save the file.