

ABCRetailers Web Application - Models Code Snapshots

Models

Customer.cs

Customer.cs

ABCRetailers

ABCRetailers.Models.C

```
1 // Models/Customer.cs
2 using Azure;
3 using Azure.Data.Tables;
4 using System.ComponentModel.DataAnnotations;
5
6 namespace ABCRetailers.Models
7 {
8     18 references
9     public class Customer : ITableEntity
10     {
11         1 reference
12         public string PartitionKey { get; set; } = "Customer";
13         5 references
14         public string RowKey { get; set; } = Guid.NewGuid().ToString();
15         2 references
16         public DateTimeOffset? Timestamp { get; set; }
17         1 reference
18         public ETag ETag { get; set; }
19
20         [Display(Name = "Customer ID")]
21         3 references
22         public string CustomerId => RowKey;
23
24         [Required]
25         [Display(Name = "First Name")]
26         10 references
27         public string Name { get; set; } = string.Empty;
28
29         [Required]
30         [Display(Name = "Last Name")]
31         10 references
32         public string Surname { get; set; } = string.Empty;
33
34         [Required]
35         [Display(Name = "Username")]
36         9 references
37         public string Username { get; set; } = string.Empty;
38
39         [Required]
40         [EmailAddress]
41         [Display(Name = "Email")]
42         7 references
43         public string Email { get; set; } = string.Empty;
44
45         [Required]
46         [Display(Name = "Shipping Address")]
47         7 references
48         public string ShippingAddress { get; set; } = string.Empty;
49     }
50 }
```

Product.cs

```
Product.cs [X]
ABCRetailers ABCR

1 // Models/Product.cs
2 using Azure;
3 using Azure.Data.Tables;
4 using System.ComponentModel.DataAnnotations;
5
6 namespace ABCRetailers.Models
7 {
8     20 references
9     public class Product : ITableEntity
10     {
11         1 reference
12         public string PartitionKey { get; set; } = "Product";
13         6 references
14         public string RowKey { get; set; } = Guid.NewGuid().ToString();
15         1 reference
16         public DateTimeOffset? Timestamp { get; set; }
17         1 reference
18         public ETag ETag { get; set; }
19
20         [Display(Name = "Product ID")]
21         2 references
22         public string ProductId => RowKey;
23
24         [Required]
25         [Display(Name = "Product Name")]
26         21 references
27         public string ProductName { get; set; } = string.Empty;
28
29         [Required]
30         [Display(Name = "Description")]
31         15 references
32         public string Description { get; set; } = string.Empty;
33
34         [Required(ErrorMessage = "Price is required")]
35         [Display(Name = "Price")]
36         5 references
37         public string PriceString { get; set; } = string.Empty;
38
39         [Display(Name = "Price")]
40         19 references
41         public decimal Price
42         {
43             get
44             {
45                 return decimal.TryParse(PriceString, out var result) ? result : 0m;
46             }
47             set
48             {
49                 PriceString = value.ToString("F2");
50             }
51         }
52
53         [Required]
54         [Display(Name = "Stock Available")]
55         23 references
56         public int StockAvailable { get; set; }
57
58         [Display(Name = "Image URL")]
59         9 references
60         public string ImageUrl { get; set; } = string.Empty;
61     }
62 }
```

Order.cs

```
Order.cs  ▸ ×
ABCRetailers

1  // Models/Order.cs
2  using Azure;
3  using Azure.Data.Tables;
4  using System.ComponentModel.DataAnnotations;
5
6  namespace ABCRetailers.Models
7  {
8      15 references
9      public class Order : ITableEntity
10     {
11         1 reference
12         public string PartitionKey { get; set; } = "Order";
13         10 references
14         public string RowKey { get; set; } = Guid.NewGuid().ToString();
15         3 references
16         public DateTimeOffset? Timestamp { get; set; }
17         1 reference
18         public ETag ETag { get; set; }
19
20         [Display(Name = "Order ID")]
21         6 references
22         public string OrderId => RowKey;
23
24         [Required]
25         [Display(Name = "Customer")]
26         5 references
27         public string CustomerId { get; set; } = string.Empty;
28
29         [Display(Name = "Username")]
30         5 references
31         public string Username { get; set; } = string.Empty;
32
33         [Required]
34         [Display(Name = "Product")]
35         3 references
36         public string ProductId { get; set; } = string.Empty;
37
38         [Display(Name = "Product Name")]
39         5 references
40         public string ProductName { get; set; } = string.Empty;
41
42         [Required]
43         [Display(Name = "Order Date")]
44         [DataType(DataType.Date)]
45         8 references
46         public DateTime OrderDate { get; set; } = DateTime.Today;
47
48         [Required]
49         [Display(Name = "Quantity")]
50         [Range(1, int.MaxValue, ErrorMessage = "Quantity must be at least 1")]
51         7 references
52         public int Quantity { get; set; }
53
54         [Display(Name = "Unit Price")]
55         [DataType(DataType.Currency)]
56         4 references
57         public decimal UnitPrice { get; set; }
58
59         [Display(Name = "Total Price")]
60         [DataType(DataType.Currency)]
61         6 references
62         public decimal TotalPrice { get; set; }
63
64         [Required]
65         [Display(Name = "Status")]
66         17 references
67         public string Status { get; set; } = "Submitted";
68     }
69
70     0 references
71     public enum OrderStatus
72     {
73         Submitted,    // When order is first created
74         Processing,   // When company opens/reviews the order
75         Completed,    // When order is delivered to customer
76         Cancelled     // When order is cancelled
77     }
78 }
```

FileUploadModel.cs

```
FileUploadModel.cs
ABCRetailers
// Models/FileUploadModel.cs
using System.ComponentModel.DataAnnotations;

namespace ABCRetailers.Models
{
    5 references
    public class FileUploadModel
    {
        [Required]
        [Display(Name = "Proof of Payment")]
        7 references
        public IFormFile ProofOfPayment { get; set; }

        [Display(Name = "Order ID")]
        2 references
        public string? OrderId { get; set; }

        [Display(Name = "Customer Name")]
        2 references
        public string? CustomerName { get; set; }
    }
}
```

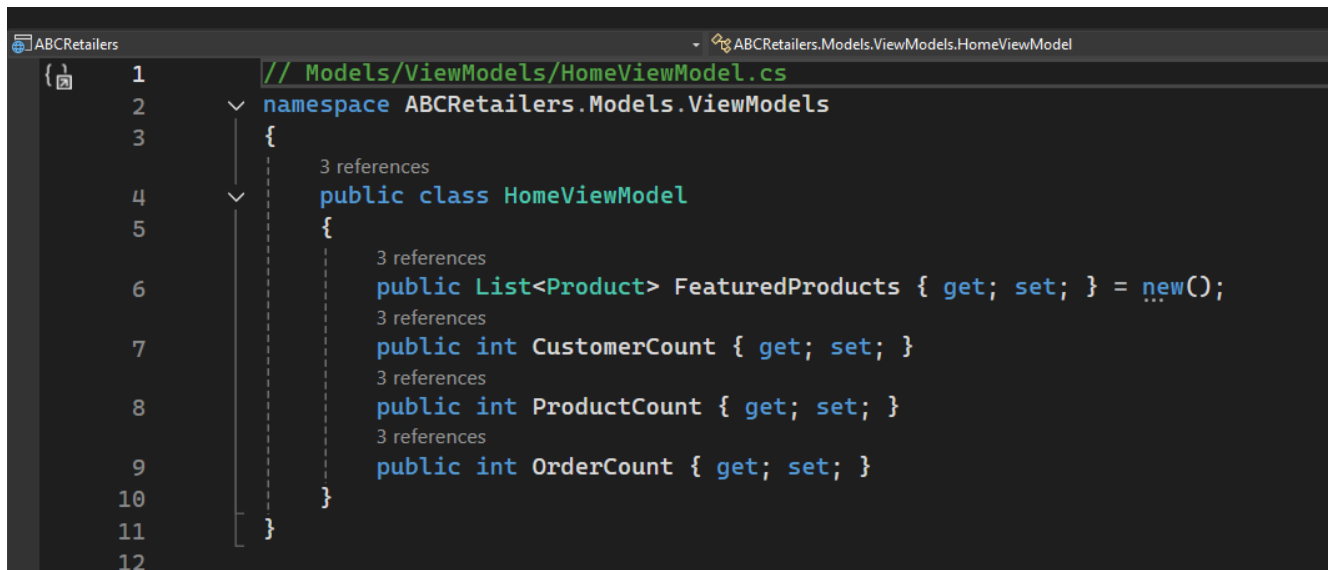
ErrorViewModel.cs

```
ErrorViewModel.cs
ABCRetailers
namespace ABCRetailers.Models
{
    3 references
    public class ErrorViewModel
    {
        3 references
        public string? RequestId { get; set; }

        1 reference
        public bool ShowRequestId => !string.IsNullOrEmpty(RequestId);
    }
}
```

ViewModels/

HomeViewModel.cs



```
1 // Models/ViewModels/HomeViewModel.cs
2 namespace ABCRetailers.Models.ViewModels
3 {
4     3 references
5     public class HomeViewModel
6     {
7         3 references
8         public List<Product> FeaturedProducts { get; set; } = new();
9         3 references
10        public int CustomerCount { get; set; }
11        3 references
12        public int ProductCount { get; set; }
13        3 references
14        public int OrderCount { get; set; }
15    }
16 }
```

OrderCreateViewModel.cs

```
OrderCreateViewModel.cs
ABCRetailers
ABCRetailers.Models.ViewModels.OrderCreateViewModel

1 // Models/ViewModels/OrderCreateViewModel.cs
2 using System.ComponentModel.DataAnnotations;
3
4 namespace ABCRetailers.Models.ViewModels
5 {
6     5 references
7     public class OrderCreateViewModel
8     {
9         [Required]
10        [Display(Name = "Customer")]
11        5 references
12        public string CustomerId { get; set; } = string.Empty;
13
14        [Required]
15        [Display(Name = "Product")]
16        5 references
17        public string ProductId { get; set; } = string.Empty;
18
19        [Required]
20        [Display(Name = "Quantity")]
21        [Range(1, int.MaxValue, ErrorMessage = "Quantity must be at least 1")]
22        8 references
23        public int Quantity { get; set; }
24
25        [Required]
26        [Display(Name = "Order Date")]
27        [DataType(DataType.Date)]
28        4 references
29        public DateTime OrderDate { get; set; } = DateTime.Today;
30
31        [Required]
32        [Display(Name = "Status")]
33        3 references
34        public string Status { get; set; } = "Submitted";
35
36        3 references
37        public List<Customer> Customers { get; set; } = new();
38        3 references
39        public List<Product> Products { get; set; } = new();
40    }
41 }
```