ABCRetailers Web Application - OrderController Code Snapshots

Difficult to take Full Code Snapshot – Watch Video Recording for Start and End of Code – The Start and End of Code is also captured in the First and Last Snapshot Respectively)

OrderController.cs (IAzureStorageService Action Code Snapshot – NOTE THAT THE PREAMBLE PART OF THE CODE IS CAPTURED HERE)

```
OrderController.cs → ×
ABCRetailers

    ABCRetailers.Controllers.OrderControl

                   // Controllers/OrderController.cs
                v using Microsoft.AspNetCore.Mvc;
  {ゐ
                  using ABCRetailers. Models;
                   using ABCRetailers.Models.ViewModels;
                   using ABCRetailers.Services;
                   using System.Text.Json;
                v namespace ABCRetailers.Controllers
                       1 reference
                       public class OrderController : Controller
  10
        11
                           private readonly IAzureStorageService _storageService;
        12
       13
                           0 references
                           public OrderController(IAzureStorageService storageService)
        14
                           {
                                _storageService = storageService;
        16
                           }
        17
        18
```

OrderController.cs (Index Action Code Snapshot)

```
3 references
public async Task<IActionResult> Index()
{
   var orders = await _storageService.GetAllEntitiesAsync<Order>();
   return View(orders);
}
```

OrderController.cs (Create GET Action Code Snapshot)

OrderController.cs (Create POST Action Full Code Snapshot)

```
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Create(OrderCreateViewHodel model)
       if (ModelState.IsValid)
              try
{
                     var customer = await _storageService.GetEntityAsync<Customer>("Customer", model.CustomerId);
var product = await _storageService.GetEntityAsync<Product>("Product", model.ProductId);
                      if (customer == null || product == null)
                            ModelState.AddHodelError("", "Invalid customer or product selected.");
amait PopulateOropdowns(model);
return View(model);
                      // Check stock availability
if (product.StockAvailable < model.Quantity)</pre>
                          ModelState.AddModelError("Quantity", $"Insufficient stock. Available: {product.StockAvailable}"); amait PopulateDropdowns(model); return View(model);
                     // Create order
var order = new Order
{
                            CustomerId = model.CustomerId,
Username = customer.Username,
ProductId = model.ProductId,
                            Productio = model.Productio,
ProductName = product.ProductName,
OrderOate = model.OrderOate,
Quantity = model.Quantity,
UnitPrice = product.Price,
TotalPrice = product.Price * model.Quantity,
Status = "Submitted" // Always starts as Submitted
                      await _storageService.AddEntityAsync(order);
                     // Update product stock
product.StockAvailable -= model.Quantity;
await _storageService.UpdateEntityAsync(product);
                             OrderId = order.OrderId,
                            QrderId = order.OrderId,
CustomerId = order.CustomerId,
CustomerName = customer.Name + " " + customer.Surname,
ProductName = product.ProductName,
Quantity = order.Quantity,
TotalPrice = order.TotalPrice,
OrderDate = order.OrderDate,
Status = order.Status
                      a wait \_storage Service. Send Hessage A sync("order-notifications", \ Json Serializer. Serialize(order Hessage)); \\
                      // Send stock update message
var stockMessage = new
                           ProductId = product.ProductId,
ProductName = product.ProductName,
PreviousStock = product.StockAvailable + model.Quantity,
NewStock = product.StockAvailable,
UpdatedBy = "Order System",
UpdateDate = DateTime.UtcNow
                      await _storageService.SendHessageAsync("stock-updates", JsonSerializer.Serialize(stockHessage));
                     TempData["Success"] = "Order created successfully!";
return RedirectToAction(nameof(Index));
               catch (Exception ex)
                      ModelState.AddModelError("", $"Error creating order: {ex.Message}");
      await PopulateDropdowns(model);
return View(model);
```

OrderController.cs (Create POST Action Splitted Code Snapshot – v1)

```
[HttpPost]
[ValidateAntiForgeryToken]
public async Task<IActionResult> Create(OrderCreateViewModel model)
    if (ModelState.IsValid)
    {
       try
        {
           // Get customer and product details
           var customer = await _storageService.GetEntityAsync<Customer>("Customer", model.CustomerId);
           var product = await _storageService.GetEntityAsync<Product>("Product", model.ProductId);
           if (customer == null || product == null)
               ModelState.AddModelError("", "Invalid customer or product selected.");
               await PopulateDropdowns(model);
               return View(model);
            }
            // Check stock availability
            if (product.StockAvailable < model.Quantity)
               ModelState.AddModelError("Quantity", $"Insufficient stock. Available: {product.StockAvailable}");
               await PopulateDropdowns(model);
               return View(model);
           var order = new Order
               CustomerId = model.CustomerId,
               Username = customer.Username,
               ProductId = model.ProductId,
               ProductName = product.ProductName,
               OrderDate = model.OrderDate,
               Quantity = model.Quantity,
               UnitPrice = product.Price,
               TotalPrice = product.Price * model.Quantity,
               Status = "Submitted" // Always starts as Submitted
            };
```

OrderController.cs (Create POST Action Splitted Code Snapshot – v2)

```
await _storageService.AddEntityAsync(order);
        // Update product stock
        product.StockAvailable -= model.Quantity;
        await _storageService.UpdateEntityAsync(product);
        var orderMessage = new
           OrderId = order.OrderId,
           CustomerId = order.CustomerId,
           CustomerName = customer.Name + " " + customer.Surname,
           ProductName = product.ProductName,
           Quantity = order.Quantity,
            TotalPrice = order.TotalPrice,
OrderDate = order.OrderDate,
            Status = order.Status
        };
        await _storageService.SendMessageAsync("order-notifications", JsonSerializer.Serialize(orderMessage));
        var stockMessage = new
        {
            ProductId = product.ProductId,
            ProductName = product.ProductName,
            PreviousStock = product.StockAvailable + model.Quantity,
            NewStock = product.StockAvailable,
           UpdatedBy = "Order System",
            UpdateDate = DateTime.UtcNow
        };
        await _storageService.SendMessageAsync("stock-updates", JsonSerializer.Serialize(stockMessage));
        TempData["Success"] = "Order created successfully!";
        return RedirectToAction(nameof(Index));
    catch (Exception ex)
        ModelState.AddModelError("", $"Error creating order: {ex.Message}");
await PopulateDropdowns(model);
return View(model);
```

OrderController.cs (Details Action Code Snapshot)

```
public async Task<IActionResult> Details(string id)
{
    if (string.IsNullOrEmpty(id))
    {
        return NotFound();
    }

    var order = await _storageService.GetEntityAsync<Order>("Order", id);
    if (order == null)
    {
        return NotFound();
    }

    return View(order);
}
```

OrderController.cs (Edit Action Code Snapshot)

```
0 references
public async Task<IActionResult> Edit(string id)
    if (string.IsNullOrEmpty(id))
        return NotFound();
    var order = await _storageService.GetEntityAsync<Order>("Order", id);
    if (order == null)
        return NotFound();
    return View(order);
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public async Task<IActionResult> Edit(Order order)
    if (ModelState.IsValid)
    {
        try
            await _storageService.UpdateEntityAsync(order);
            TempData["Success"] = "Order updated successfully!";
            return RedirectToAction(nameof(Index));
        catch (Exception ex)
            ModelState.AddModelError("", $"Error updating order: {ex.Message}");
    return View(order);
```

OrderController.cs (Delete Action Code Snapshot)

```
[HttpPost]
0 references
public async Task<IActionResult> Delete(string id)
{
    try
    {
        await _storageService.DeleteEntityAsync<Order>("Order", id);
        TempData["Success"] = "Order deleted successfully!";
    }
    catch (Exception ex)
    {
        TempData["Error"] = $"Error deleting order: {ex.Message}";
    }
    return RedirectToAction(nameof(Index));
}
```

OrderController.cs (GetProductPrice Action Code Snapshot)

OrderController.cs (UploadOrderStatus Action Code Snapshot)

```
[HttpPost]
public async Task<IActionResult> UpdateOrderStatus(string id, string newStatus)
   try
    {
       var order = await _storageService.GetEntityAsync<Order>("Order", id);
       if (order == null)
       {
           return Json(new { success = false, message = "Order not found" });
       var previousStatus = order.Status;
       order.Status = newStatus;
       await _storageService.UpdateEntityAsync(order);
       // Send queue message for status update
       var statusMessage = new
           OrderId = order.OrderId,
           CustomerId = order.CustomerId,
           CustomerName = order.Username,
           ProductName = order.ProductName,
           PreviousStatus = previousStatus,
           NewStatus = newStatus,
           UpdatedDate = DateTime.UtcNow,
           UpdatedBy = "System"
       };
       await _storageService.SendMessageAsync("order-notifications", JsonSerializer.Serialize(statusMessage));
       return Json(new { success = true, message = $"Order status updated to {newStatus}" });
   catch (Exception ex)
   {
       return Json(new { success = false, message = ex.Message });
```

OrderController.cs (PopulateDropdowns Action Code Snapshot – NOTE THESE PART OF THE CODE CAPTURES THE TWO CLOSING BRACES)

```
3 references
private async Task PopulateDropdowns(OrderCreateViewModel model)
{
    model.Customers = await _storageService.GetAllEntitiesAsync<Customer>();
    model.Products = await _storageService.GetAllEntitiesAsync<Product>();
}
}
```