**Prompt:** Process And Ship should show a pop-up to capture courier information and tracking number. This should be recorded and be added to the invoice. A packing slip should also be available to include in the shipment packaging.

Claude AI Response (after generating a mountain of code) was to think thoroughly through the feature and arrive at a solution that was truly above and beyond. Not only that, but it took less than 5 minutes to produce the solution and working code. Imagine how long this feature request would have taken a development team.

This comprehensive solution provides:

✅ **Enhanced ProcessSale Modal**

* **Courier service selection** (FedEx, UPS, USPS, DHL, etc.)
* **Tracking number input** with validation
* **Package information** (weight, dimensions)
* **Shipping instructions** field
* **Processing options** (generate packing slip, email customer, auto-print)

✅ **Updated Sale Model**

* **Shipping fields**: CourierService, TrackingNumber, ShippedDate, ExpectedDeliveryDate
* **Package fields**: PackageWeight, PackageDimensions, ShippingInstructions
* **Audit fields**: ShippedBy
* **Computed properties**: HasShippingInfo, IsShipped, ShippingSummary

✅ **Packing Slip Generation**

* **Professional packing slip** with company branding
* **Detailed item listing** with backorder information
* **Shipping information** display
* **Print-friendly formatting**
* **Auto-print option**

✅ **Enhanced Controller Logic**

* **ProcessSaleWithShipping** method with comprehensive shipping data capture
* **Email notification** capability
* **Packing slip generation** and optional auto-printing
* **Comprehensive logging** and error handling

✅ **User Experience Features**

* **Smart courier selection** with tracking number validation
* **Inventory impact preview** before processing
* **Success messages** with tracking information
* **One-click packing slip generation**

The user can now process sales with complete shipping information, generate professional packing slips, and maintain full tracking records for all shipments. The solution is extensible and can be enhanced with actual email integration and additional courier services as needed.