Cheaper By the Dozen (CBTD) sells **Products** (that have a **Manufacturer** and Product **Category**) at deeply discounted prices. The more you buy the more you save.

Each **Product** has a *retail list price*, a *unit price* (for 1-5 items), a *discounted price* (for 6-11 items), and a *deeply discounted price* when you purchase more than a dozen (12 or more) of the same item.

Each product also has a product name, an *image*, *UPC code*, product size, and *description*, along with a single *manufacturer* and single *product category,* and *modified date.*

A **Manufacturer** simply has a *manufacturer name* and *modified date.*

A **Category** has a *name*, *display order*, and *modified date.*

Products are displayed and sorted on a webpage based on Category.

Product details are displayed on a separate screen to provide more information about the product.

Products can be added to a temporary **Shopping Cart** (established after a **Customer** registers for an **Account** and/or Logs into an existing account).

A **Shopping Cart** item contains the *ProductID*, *Quantity*, *CustomerID*, and *ItemCartPrice* (which varies depending on the quantity of the item added to the cart). Remember, the more you buy, the more you save.

Upon checkout, the **Shopping Cart** items transition to permanent **OrderDetails** (containing the *ProductID*, *Quantity*, *CustomerID*, and *ItemPrice)* which roll up to an **OrderHeader** (containing the *CustomerID, OrderDate, ShippingDate, OrderTotal, OrderStatus, PaymentStatus, TrackingNumber, Carrier, PaymentDate, PaymentProcessingID, PhoneNumber, StreetAddress, City, State, PostalCode, and ShipToName*)
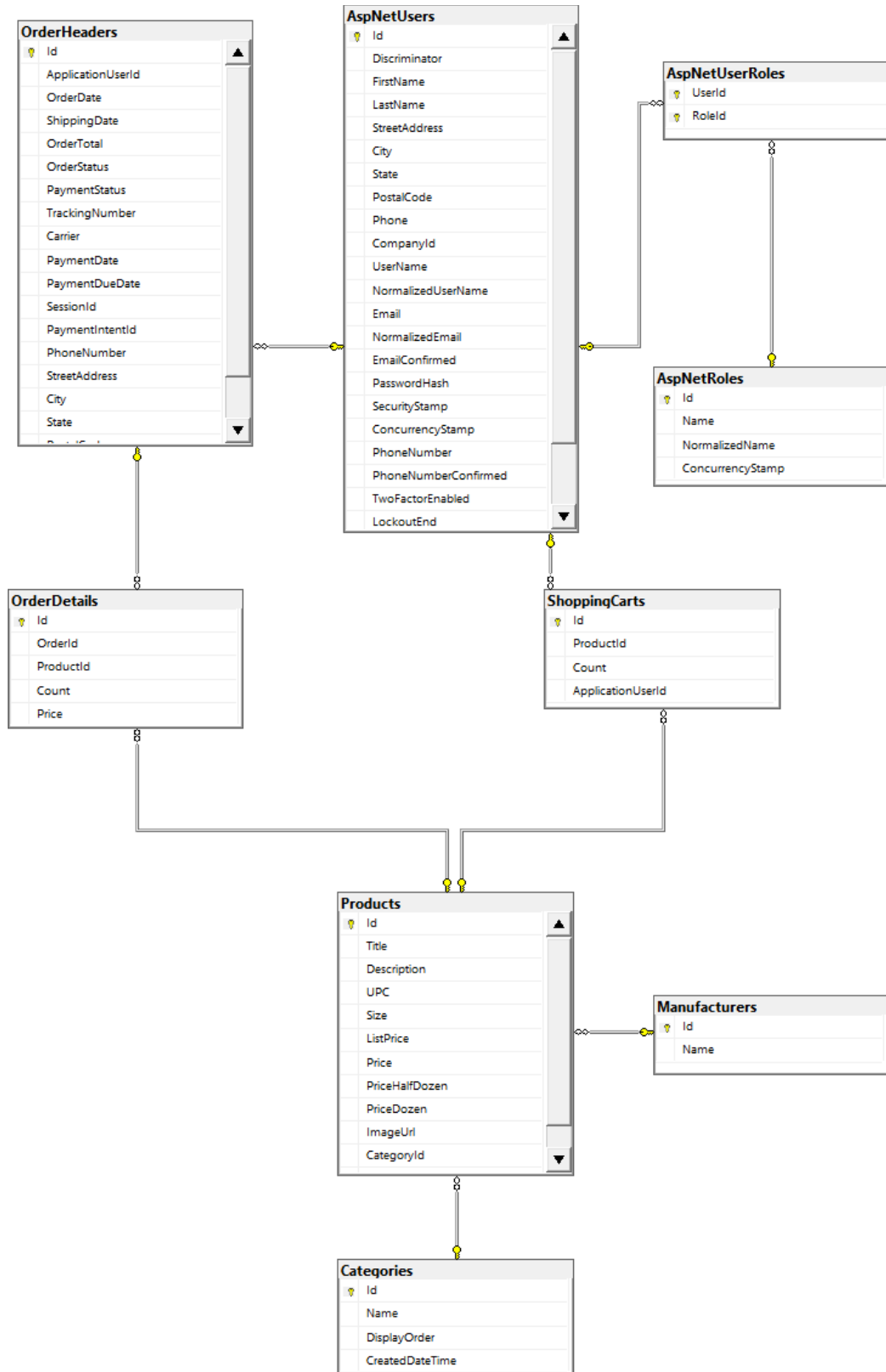
User and Roles

Admin
- Create, Read, Update, and Delete **Categories**
- Create, Read, Update, and Delete **Manufacturers**
- Create, Read, Update, and Delete **Products**
- Search and Manage Orders by OrderHeader Status (InProcess, Completed, PaymentPending, Payment Approved)
- Update **OrderHeader** (*OrderStatus, ShippingDate, Tracking Number*)

Public (not logged in)

- Browse and search various Products by Category and/or Manufacturer (FIGURE 1)
- View details of Products (including bulk pricing, detailed descriptions, and larger image) (FIGURE 2)

Customer (logged in after registering a new account)

- All Public Features plus
  - Add Product(s) to Shopping Cart
  - Update Product Quantity in Cart
  - Remove Products from Cart
  - Check out
    - Enter Shipping Address Details
    - Pay by Credit Card (third-party payment processor)
    - Obtain an order confirmation and tracking number by automated e-mail
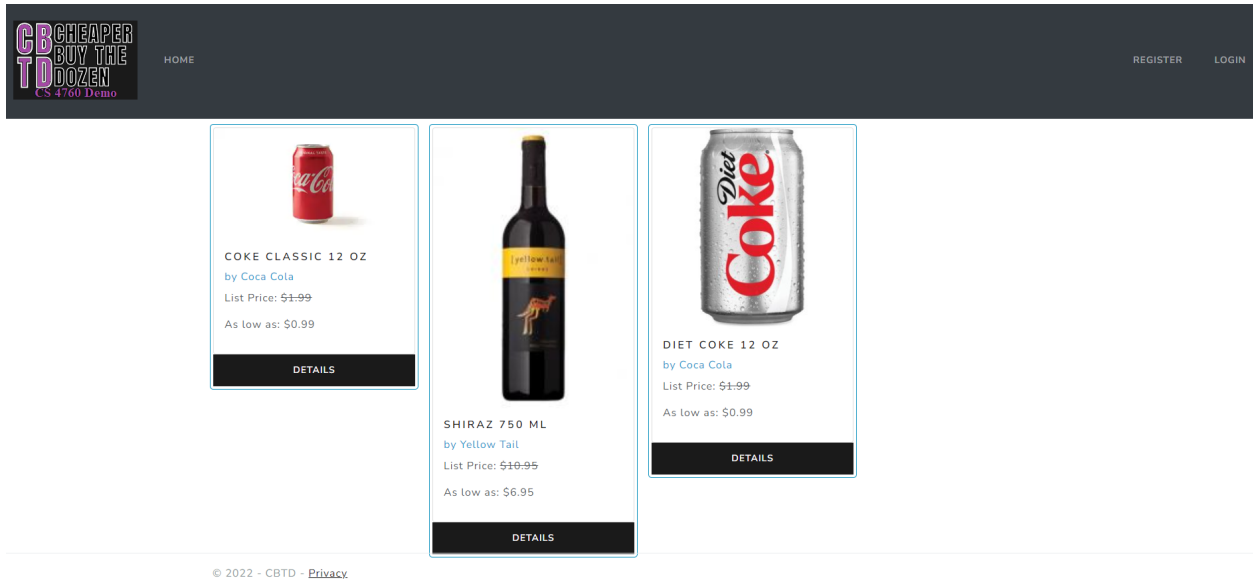 - View orders (historical and current)
  - Reset / Forgot Password

OrderHeaders
- 🔑 Id
- ApplicationUserId
- OrderDate
- ShippingDate
- OrderTotal
- OrderStatus
- PaymentStatus
- TrackingNumber
- Carrier
- PaymentDate
- PaymentDueDate
- SessionId
- PaymentIntentId
- PhoneNumber
- StreetAddress
- City
- State

AspNetUsers
- 🔑 Id
- Discriminator
- FirstName
- LastName
- StreetAddress
- City
- State
- PostalCode
- Phone
- CompanyId
- UserName
- NormalizedUserName
- Email
- NormalizedEmail
- EmailConfirmed
- PasswordHash
- SecurityStamp
- ConcurrencyStamp
- PhoneNumber
- PhoneNumberConfirmed
- TwoFactorEnabled
- LockoutEnd

AspNetUserRoles
- 🔑 UserId
- 🔑 RoleId

AspNetRoles
- 🔑 Id
- Name
- NormalizedName
- ConcurrencyStamp

OrderDetails
- 🔑 Id
- OrderId
- ProductId
- Count
- Price

ShoppingCarts
- 🔑 Id
- ProductId
- Count
- ApplicationUserId

Products
- 🔑 Id
- Title
- Description
- UPC
- Size
- ListPrice
- Price
- PriceHalfDozen
- PriceDozen
- ImageUrl
- CategoryId

Manufacturers
- 🔑 Id
- Name

Categories
- 🔑 Id
- Name
- DisplayOrder
- CreatedDateTime

DATABASE ERD

FIGURE 1 - HOME PAGE with PRODUCTS for Sale
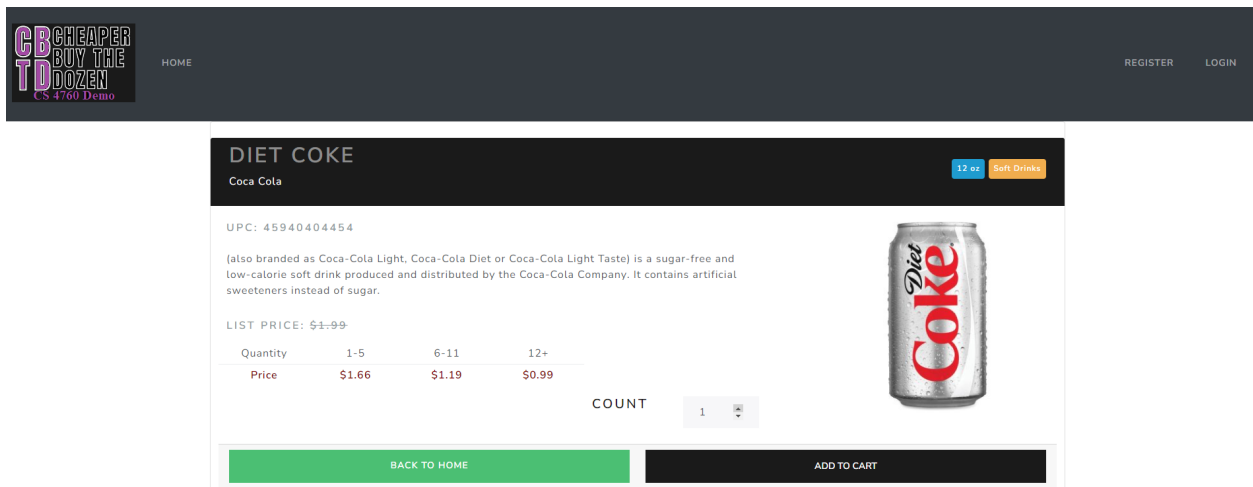
FIGURE 2 - PRODUCT DETAILS PAGE
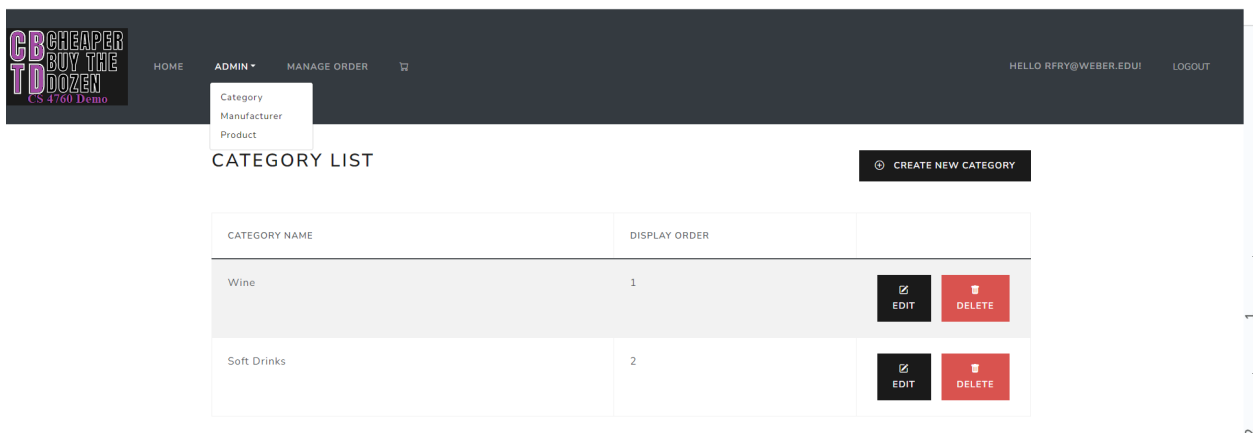
FIGURE 3A - ADMIN INTERFACE FOR CREATE, UPDATE, DELETE CATEGORY

CB CHEAPER BUY THE DOZEN CS 4760 Demo   HOME   ADMIN ▾   MANAGE ORDER   🛒   HELLO RFRY@WEBER.EDU!   LOGOUT

CREATE CATEGORY

Category Name

The Category Name field is required.

Display Order

The Display Order field is required.

[CREATE]   BACK TO LIST

FIGURE 3B - CREATE CATEGORY (with Validation)

EDIT CATEGORY

Category Name

Wine

Display Order

1

[UPDATE]   BACK TO LIST

FIGURE 3C - EDIT CATEGORY