

3 Tier Architecture

UI: [asp.net](#), Bootstrap, html, CSS

Middle Layer: [asp.net](#) with C#

Backend layer: Mysql

Order Creation

- Check for product quantity availability
- Calculate sales tax based on bill to address Zip-code
- multiple bill to addresses and ship to addresses
- Payment through Multiple cards
- Order is set to PICK state by default

Cancel & Return Order

Orders can be cancelled only before the product is shipped.
When the order is cancelled it increases product quantity.
Orders return uses 30-days return policy.
Order can only be returned when the product is delivered.

Subscription Order

Saves payment information for future use
Can set frequency (number of times)
Can set time span (every 2-3-6 months)

Subscription Engine

Runs during minimal traffic

Triggers/Create order the day before based on the due date & frequency

Created order follows normal order flow

Frequency decreases after every order creation

Admin

Add/Modify category, subcategory, product
Modify Price

Changes Order status PICK -> other status(PACK,SHIP)

Report Order status (order will have 4 states: PENDING, SHIPPED, INVOICED, RETURNED)

Refunds payment and increases quantity: cancel/return orders.

Maintains subscription Engine

Thank you!