Case Study The NextGen POS System



The Case Study

- The text uses the development of a Point of Sale (POS) System as a case study to demonstrate object oriented software development.
- A POS system is a replacement for a cash register that adds many computer services to the traditional cash register. Most retail stores now use POS systems.

Architectural Layers

- User Interface
 - (minor topic)
- Application Logic and Domain Objects
 - Sale and Payment (main topics)
- Technical Services
 - Log and Persistence (secondary topics)



Iterative Learning/Development

- The text is organized in three iterations.
- Each iteration will deliver a product to the customer, with subsequent iterations adding features to the earlier ones.
- Each iteration will do analysis and design only on the features for the current release of the software.



☐ Efficient: With the aid of common barcode scanners and touch screen interfaces, you can process your sales quickly and efficiently.



☐ Easy to learn: No expensive training for staff as easy to learn.



☐ Easy to use: Requires minimum keystrokes and the mouse is never required (but you can use it if you want).

☐ Flexible: Handles any combination of discounts, taxes, returns, credits and sales specials in one easy transaction.



☐ Automatic: Applies automatic discounts or preferred price levels to special customers.



☐ Accommodating: If something is not in stock -send a customer order to the purchase order system



- □ Secure: Can view and automatically calculated profit margins and stock counts.
- ☐ Customer-Oriented: Let you know to rewards your best customers with a bonus points program.
- ☐ Versatile: Prints sales slips, price quotes and account invoices.



■ Modern: Works with all the modern retail devices including barcode, customer display, cash drawer, barcoded scales and runs on any network.



■ Email: The email send to the regular customer regarding new scheme for new product.



Benefits

☐ Save your time, increase accuracy and provide greater control over what happens at the sales counter.



☐ It will enhance operation, providing with increased speed, accuracy and control of inventory - all of which lead to increased profits and more time to focus on growing business.



Benefits

- The POS screen is designed to be fast and easy to use without leaving any product. Everything from suspending sales to creating price quotes it's all available in this system.
- The different schemes on the products can be defined and be known to the customer by messaging facility.





Applicable areas



SHOPPING MALLS



PROVISION STORES





Features of NextGen POS

A POS System is a computerized application used to record sales and handle payments. It is typically used in retail store. It includes hardware components such as computer and barcode scanner. A software runs on the system. It interfaces to various service applications such as third party tax calculator and inventory control. These systems must be relatively fault-tolerant that is even if remote services are temporarily unavailable, they must still be capable of capturing sales and handle cash payment.



Problem Statement

A customer arrives at a checkout with items to purchase. The cashier uses the POS system to record each purchased item. System provides running total and line-item details. The customer enters payment info, system validates and records. System updates inventory, customer receives receipt from the system and leaves with the items purchased.

