Architectures for Software Systems

Web based POST system

## Sales System

## Business Process

Version <0.1>

Huyen Le

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Revision History

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**Business Process Model**

1. **Sales system**

* General pattern of sales system includes three main processes:

1. Management sales system

- Become a point service member

- Using Point service member

1. Management point

- Bonus points for customers

- Entry points into the system

1. Statistics

**1. Management sales system**

* 1. Become a point service member
* Purchase
* Customer be employees to introduce customers to choose products.
* When customers have finished selecting products like that, then bring the product to store cashiers
* Customer will pay the selected products
* Procedures for become a point service member
* Save the new customer information, if a new customer, the salesperson will have to enter customer information into customer lists to window.
* Making membership card: Customer Information, information on the identity card, address, phone number…
* Hand over membership card
* After disclosing the customer will receive a membership card
  1. Using Point service member
* Point are recorded in the system, and not on the point card. The awarded points become valid for use the following day, and can be used by the member who accrued the points in place of cash when making a purchase. Points can be used in all stores.
* In the sales operation at the POS terminals, first the member number is read from the point card, and then the number of points accrued by the member is displayed. Next, the bar codes of the products being purchased are scanned, and the total amount is determined. The member the either pays with cash, points, or a combination of the two, and the sales data, including the number of points earned and the number of points used, is recorded. When the points are used, the number of points used is immediately subtracted from the number of points accrued by the member.

**2. Management point**

2.1 Bonus points for customers

* For each product, its standard price, common to all stores, is set as a part of the product data. Each store, however, can set and use its own actual retail price instead of the standard price during the limited period specified be each store. The actual retail price must be set in advance, and it cannot be charged in the middle of the specified period.
* Products are classified into product types such as food, general merchandise, etc. Not all stores carry every product type, and the range of product types carried is designated for each store.

2.2 Entry points into the system

* Everyday, in the morning before business hour starts, the system executes a batch process which post-processes the sales operations from previous day, and prepares for the daily sales operations.

**3. The other process**

The statistical analysis of the sales records is performed using the sales data stored at the head office server.