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| Software Design and Architecture, Lab Report |
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# Use case # 1

**Name:** Process order

**Description:**

This use case describes how the store staff uses this system to process the orders and maintains the database of the store.

**Goal**:

1. Process the order

**Preconditions:**

1. the user is logging on

**BasicCourse:**

1. The sales assistant tells the system to process an order
2. The system displays the order screen to the sales assistant
3. The sales assistant enters the product number into the system
4. The system displays the description, unit price and available stock to the sales assistant
5. The sales assistant enters the required quantity into the system
6. The system displays the total price for the order line to the sales assistant
7. The sales assistant selects delivery or collection to the system
8. The system displays the selection to the sales assistant
9. Steps 3) to 9) may be repeated for further order lines
10. The sales assistant enters the customer's name and address into the system.
11. The system displays the customer's name and address to the sales assistant.
12. The sales assistant enters the credit card details into the system
13. The system verify the credit card details and total order value
14. The system prints a credit card slip to the sales assistant
15. The system confirms the transaction
16. The system records the order together with the payment details
17. The system decrements the stock
18. The system prints an invoice to the sales assistant
19. The system prints the picking note to the warehouse person including the bin reference, product number, quantity and description

**Alternate Course:**

1. Handle Invalid Product Number
   * If in step 3 product number is wrong, the system displays error message and asks whether you want to add new product or enter the product number again.
2. Wrong quantity
   * If in step 5 the quantity is not available, the sales assistant will be able to create a backorder for the product from a regional warehouse.
3. Handle Credit Card Failure
   * If in step 12 the credit card detail is wrong, the whole above process is cancelled.
4. Make Backorder
   * If, at line 5) of the Basic Flow, the sales assistant chooses to backorder the selected product, then:
   * The system displays the backorder screen to the sales assistant
   * The system displays the available warehouses to the sales assistant
   * The sales assistant selects a warehouse on the system
   * The system displays the available stock for the product at that warehouse to the sales assistant.
   * The sales assistant enters the required quantity for the backorder into the system
   * The system displays the required quantity to the sales assistant
   * The sales assistant selects delivery or collection on the system
   * The system displays the backorder information as an order line on the order screen to the sales assistant
   * The use case restarts at line 10) in the basic flow
5. Cancel
   * If there is any error, the system cancels the order.

**Postconditions:**

1. The order is successfully processed.

**Actors:-**

1. Sales assistant
2. Card Handle System
3. Warehouse Person
4. Regional Warehouse

# Use case # 2

**Name:** Print Sales Record / print summary report

**Description:** The store manager will be able at any time to print a summary report of sales in the store for a given period, including assignment of sales to sales assistants in order to calculate weekly sales bonuses.

**Goal:** prints a summary report of sales, assignment of sales to sales assistants in order to calculate weekly sales bonuses.

**Preconditions:**

1. There must be some sales records
2. System of store manager must be running
3. Store manager logs in.

**Basic Course:**

1. Store manager scans the performance of each assistant.
2. Store manager calculates the profit of the store.
3. Store manager assigns the sales to sale assistants.
4. Store manager calculates weekly sales bonuses.
5. At the end, summary report is made.

**Alternate Course:**

1. If there is loss, store manager manages this.
2. If the assistant for which sale manager wants to assign the sales is not available it assign sales to another assistant.

**Post conditions:** the summary report is published.

**Actors:** Store Manager.

**Included Use Cases:** calculate weekly sales bonuses, assignment of sales to sales assistants.