SOUTHERN
UNIVERSITY COLLEGE
南方大學學院

BTIS 3023
PRACTICAL PROJECT 1

Stage 2 (Revised Version)

Topic:
Inventory Management System

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Department of Computer Science
Faculty of Engineering and Information Technology

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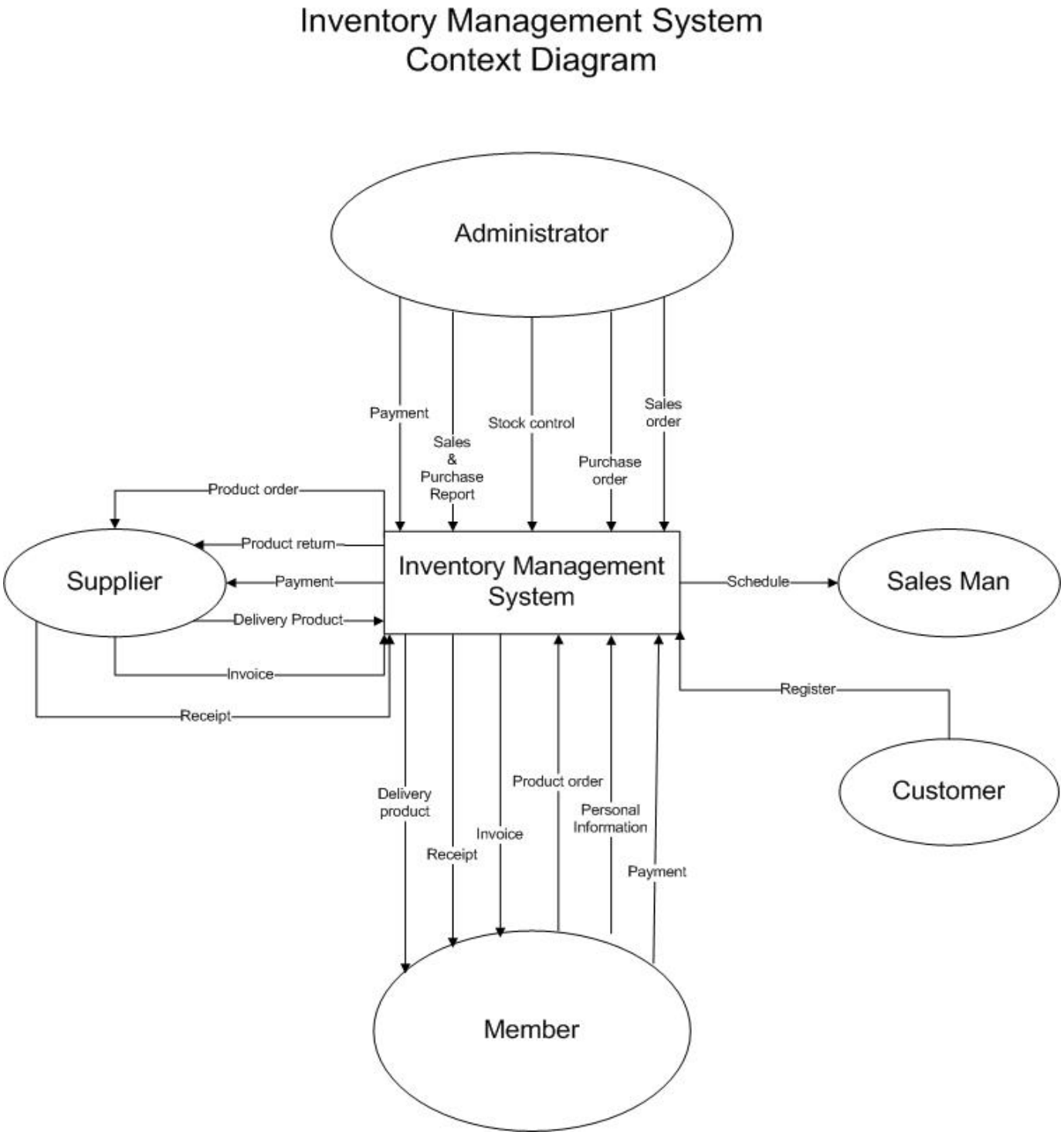
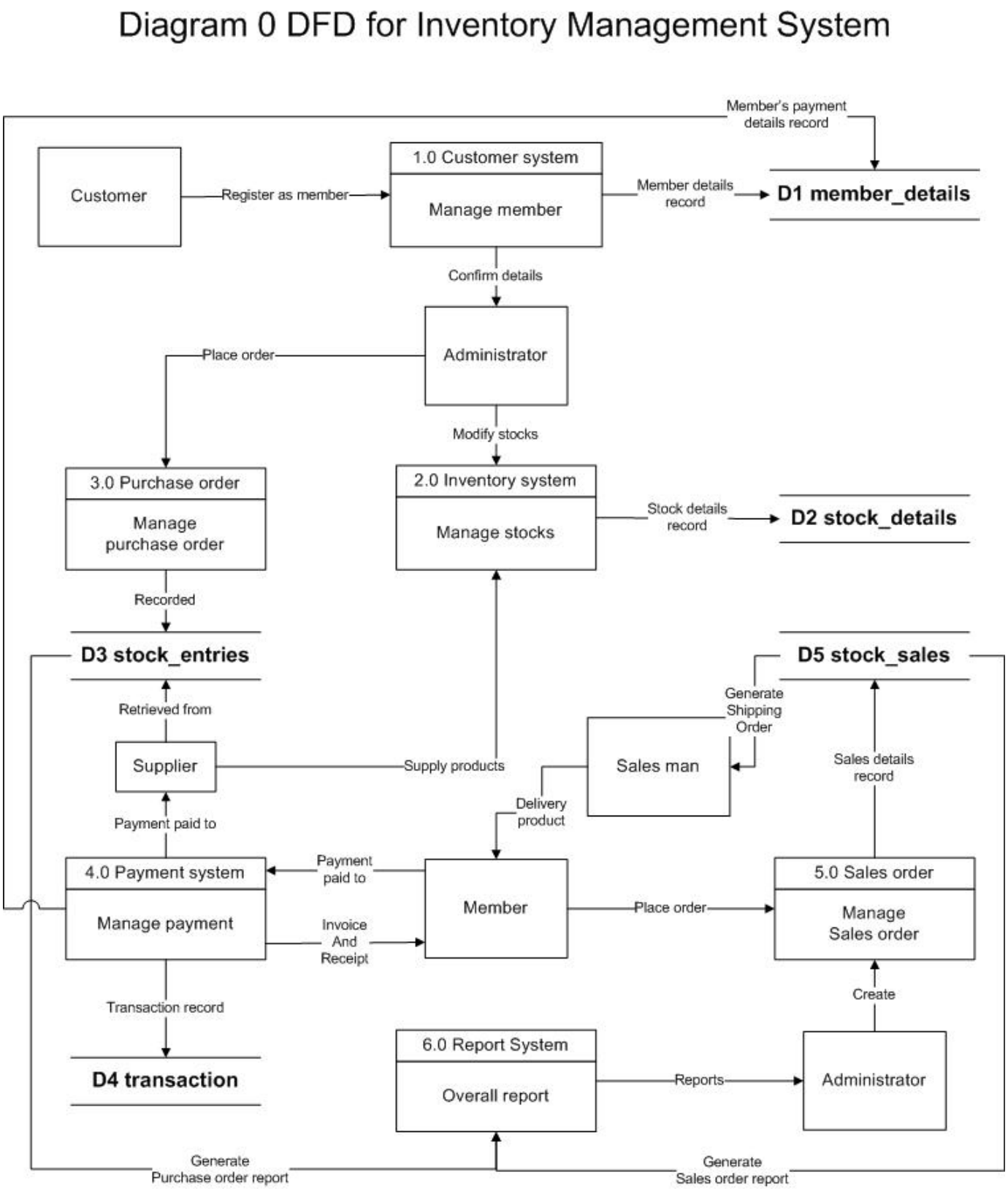
1.0 DFD diagram

1.1 Context level



1.2 DFD Diagram 0



1.3 DFD Diagram 1

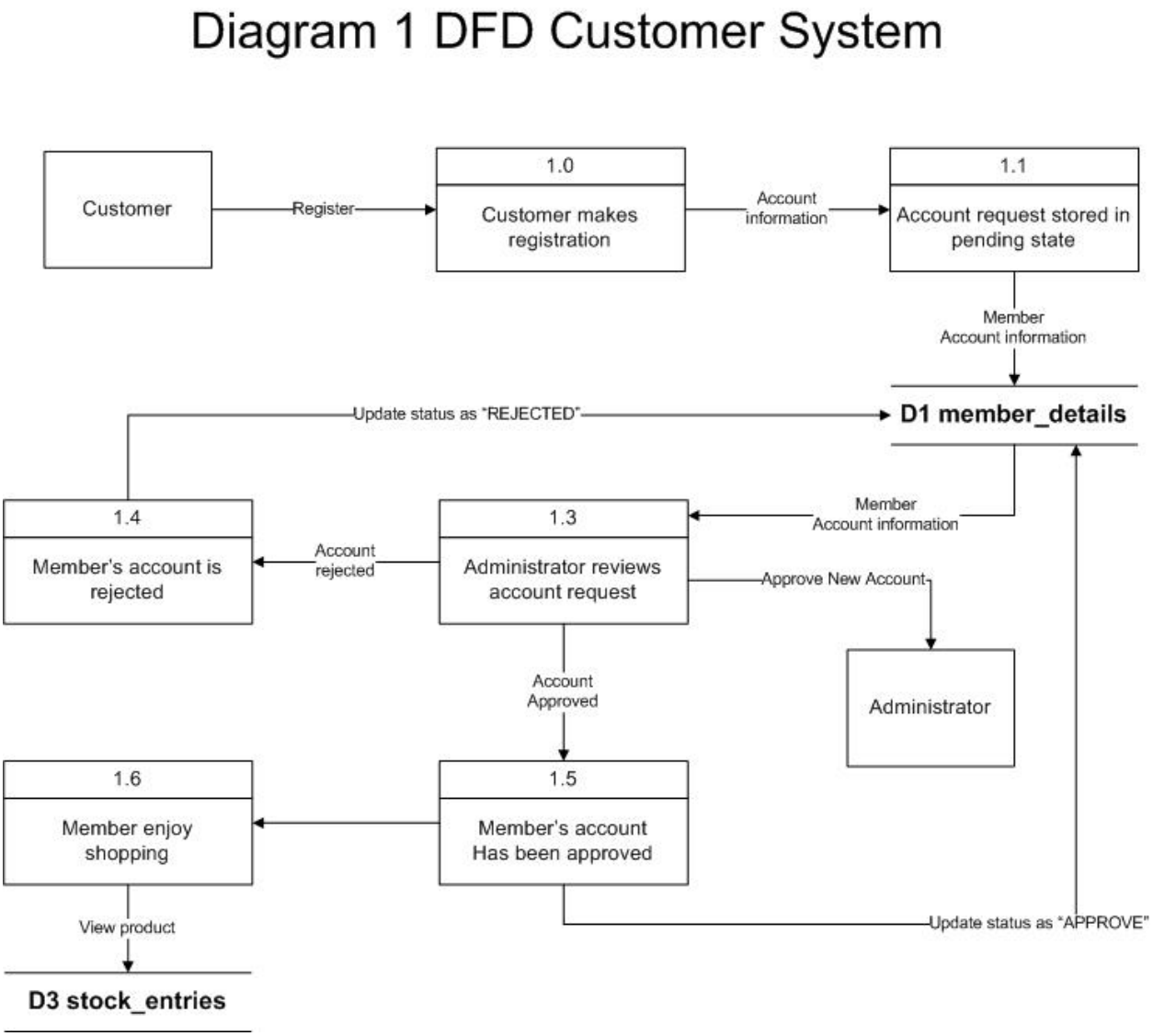


Diagram 1 DFD Inventory System

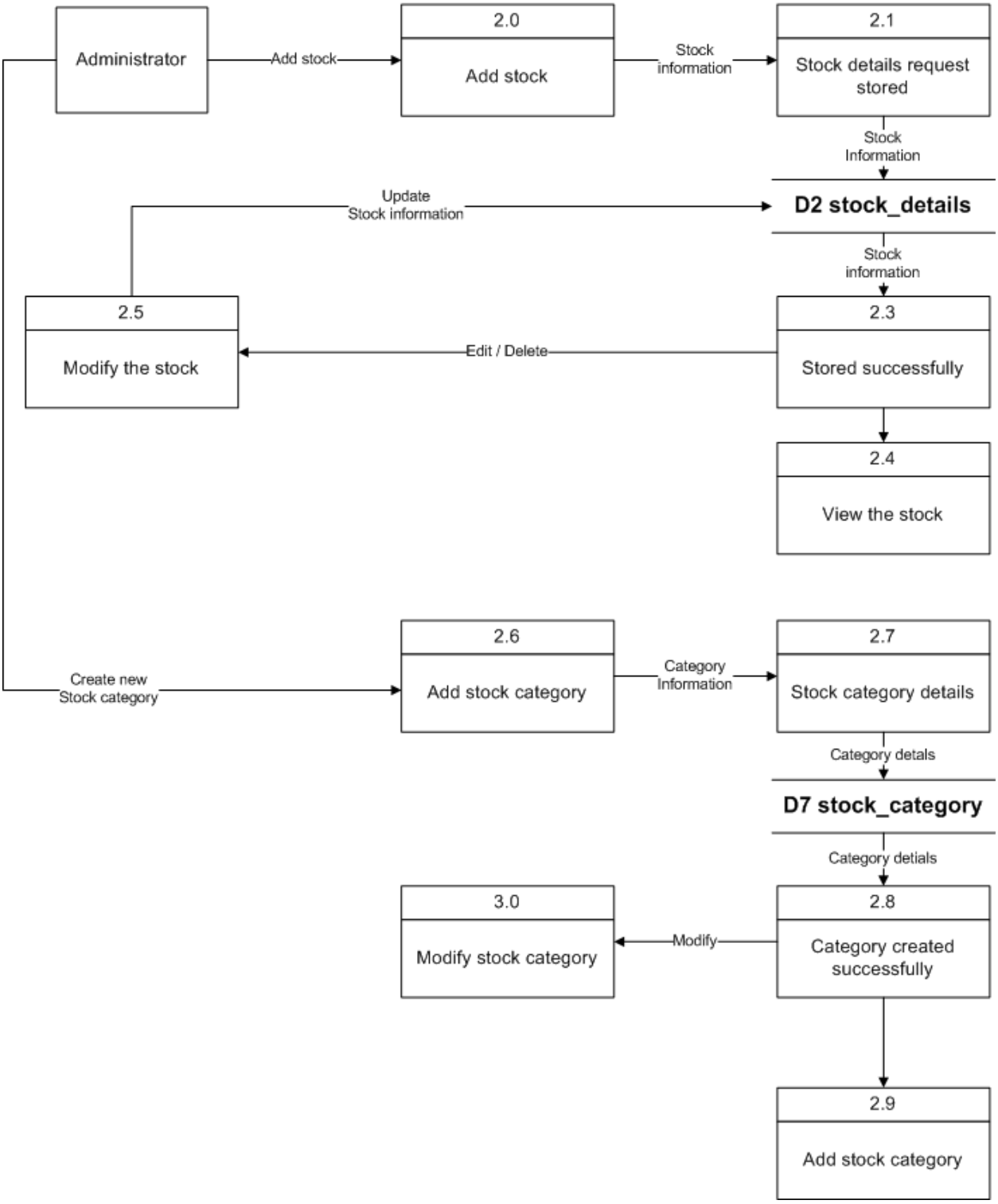


Diagram 1 DFD Purchase Order System

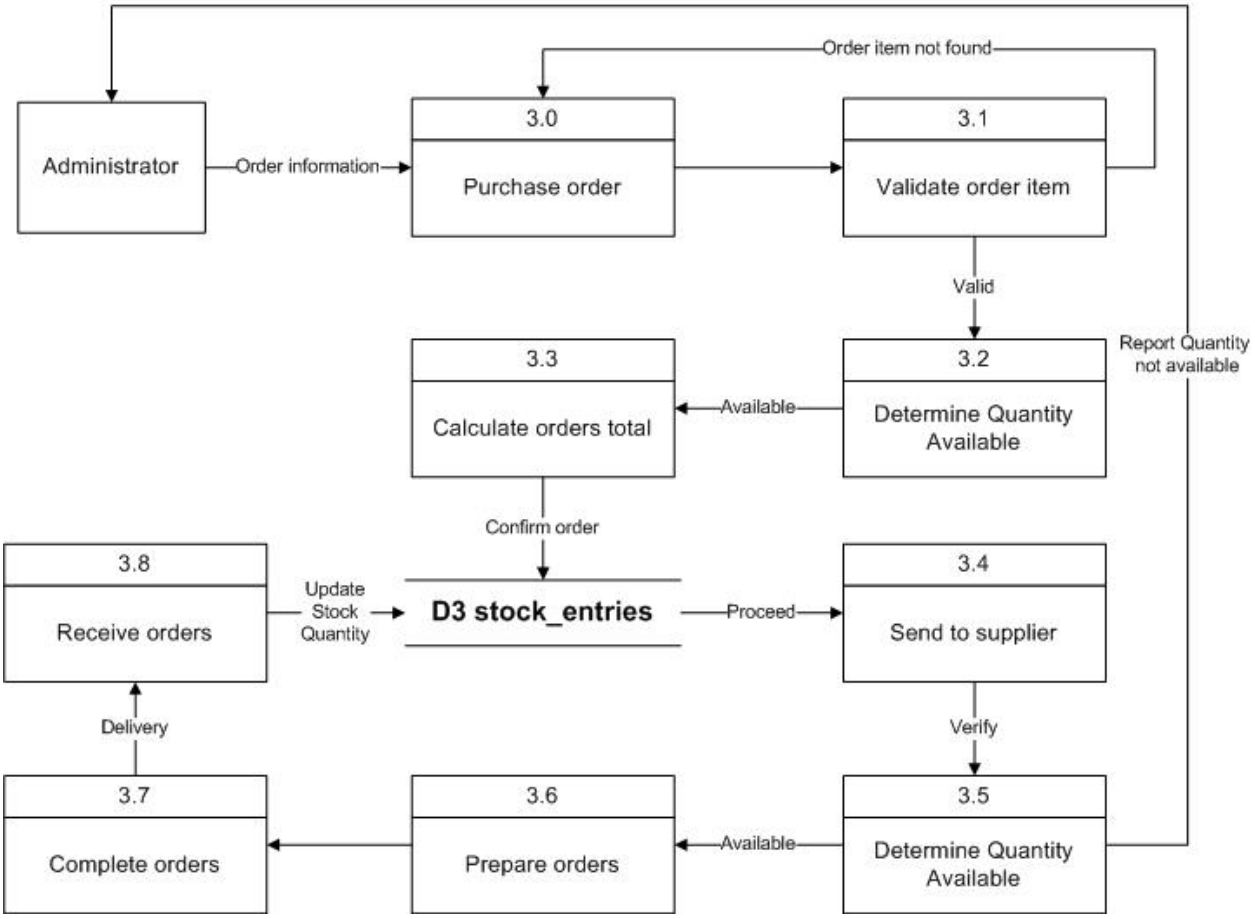


Diagram 1 DFD Payment System

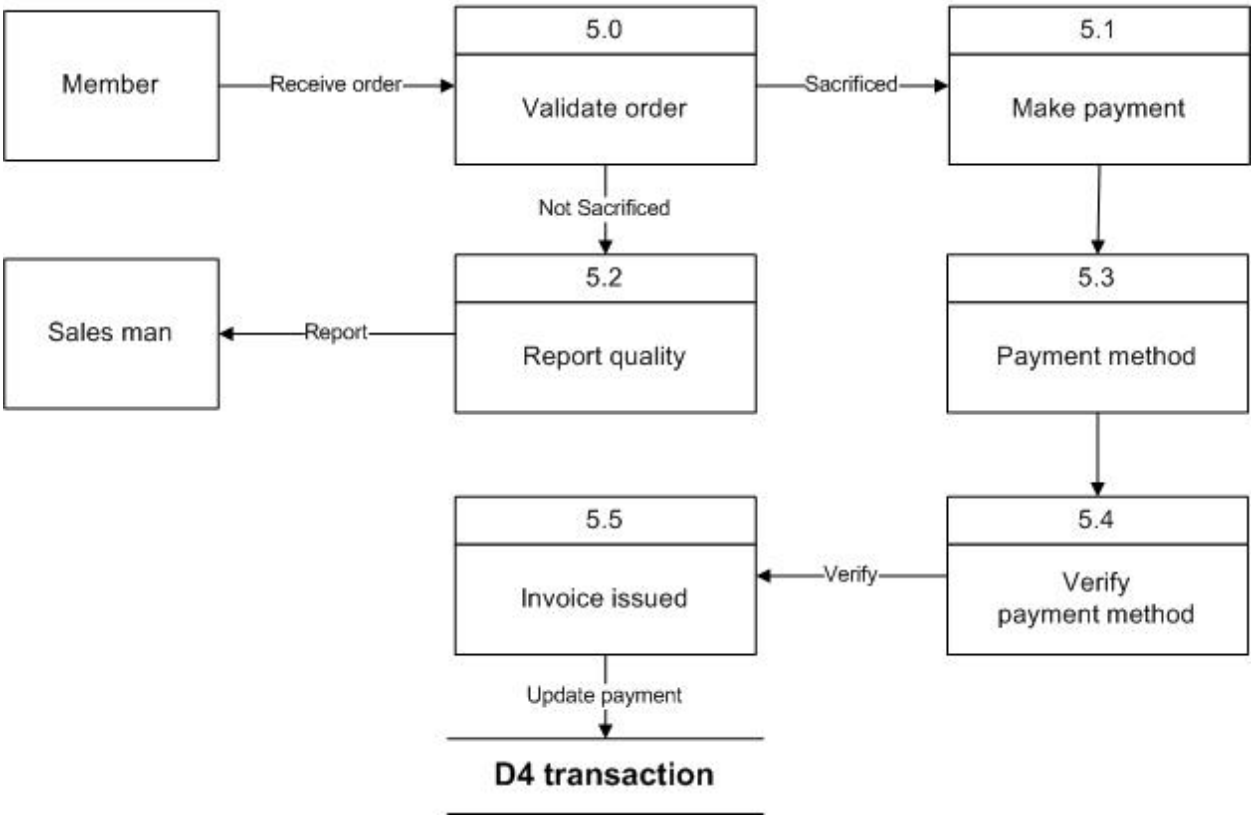


Diagram 1 DFD Sales Order System

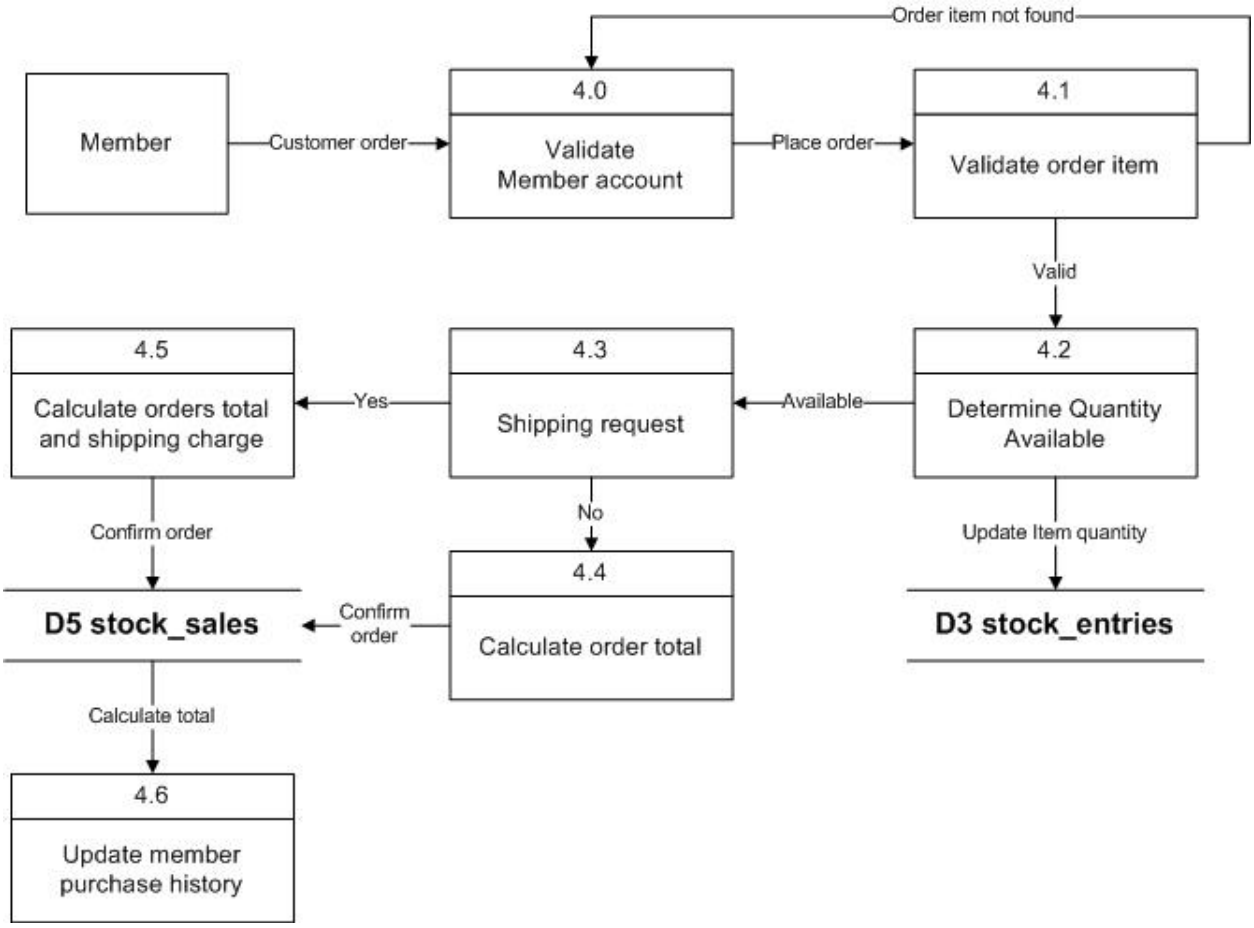
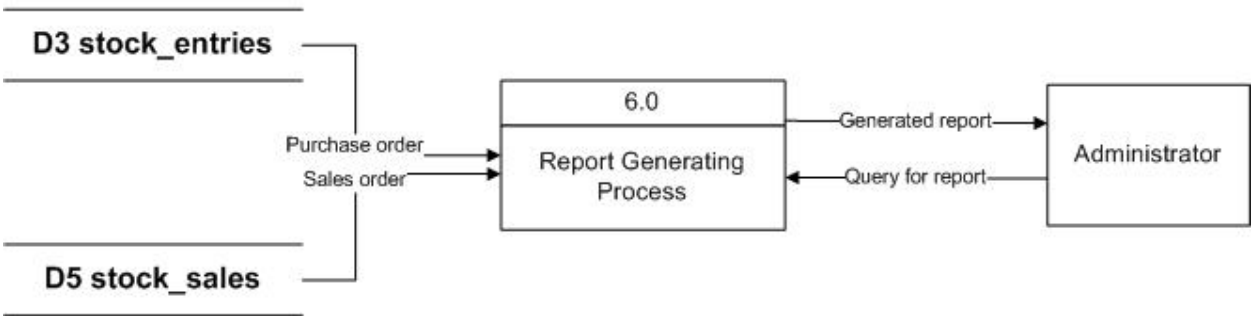
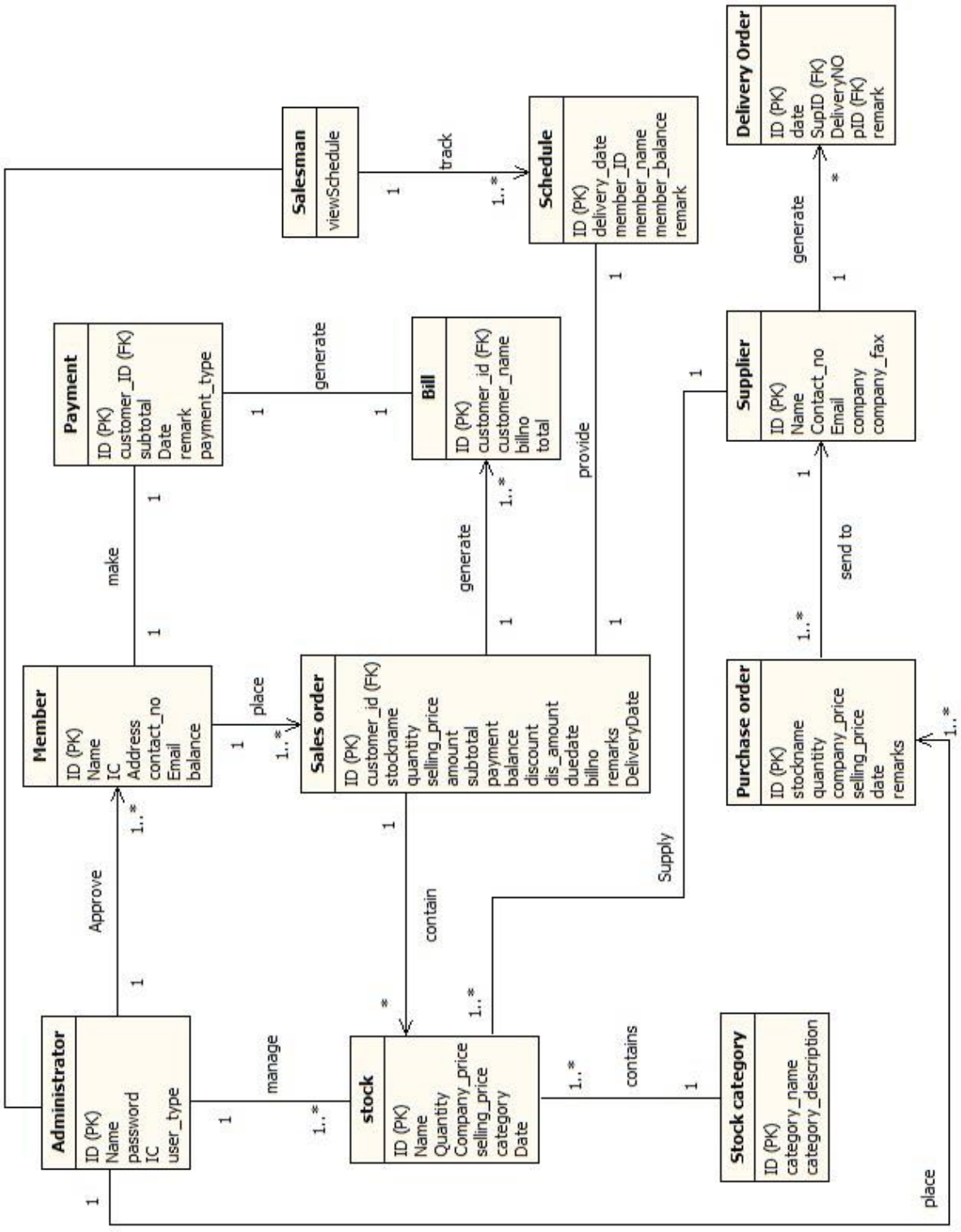


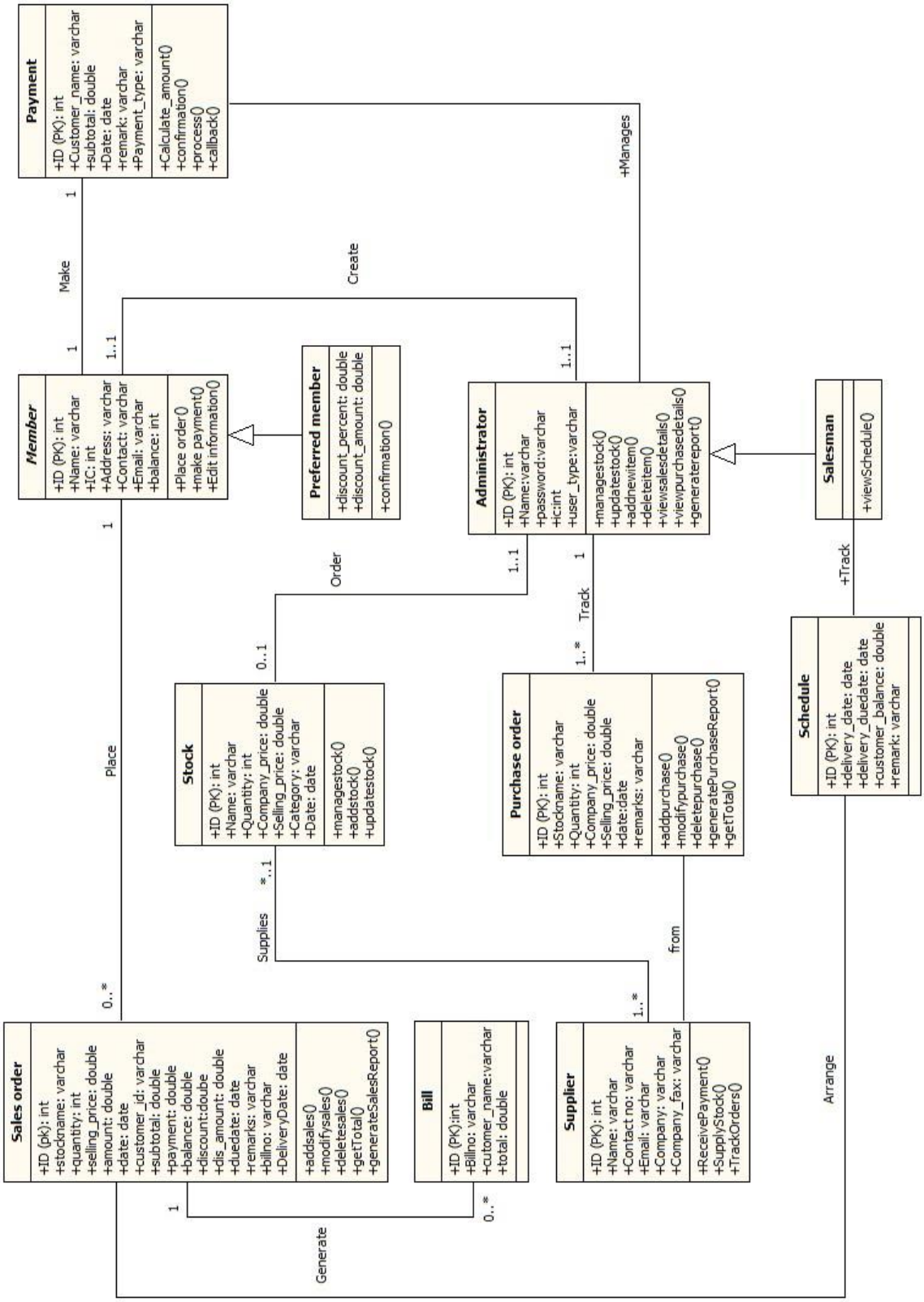
Diagram 1 DFD Report System



2.0 ER diagram

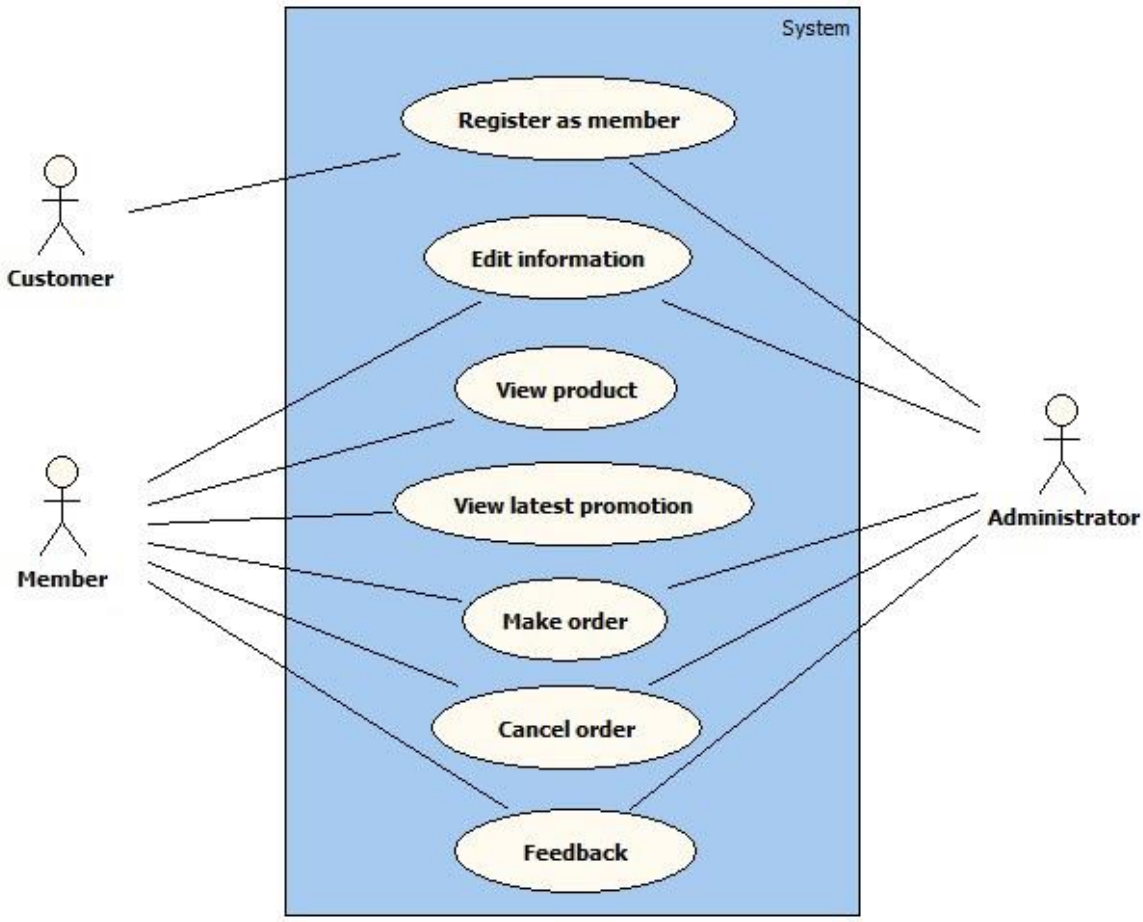


3.0 Class diagram

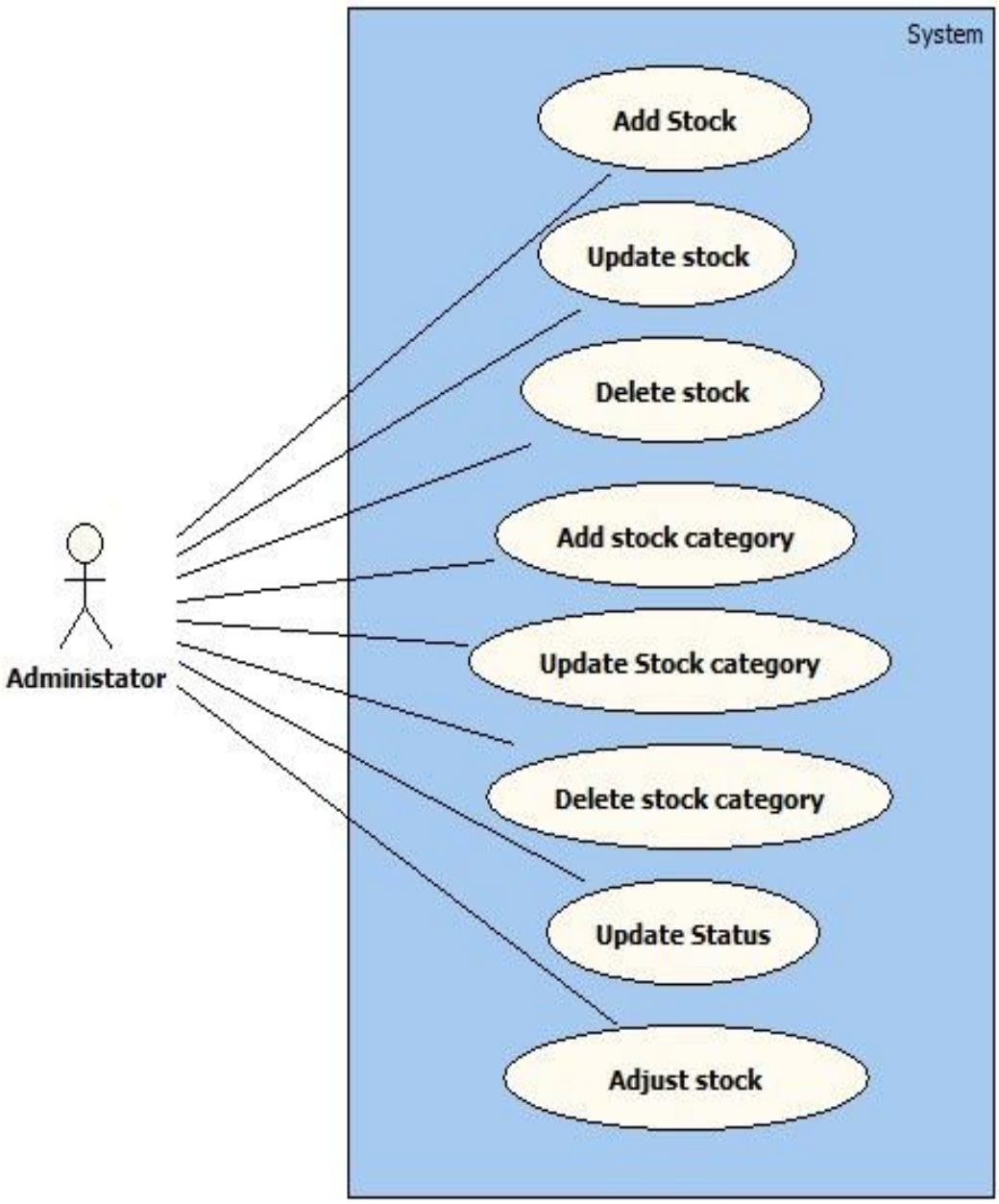


4.0 Use case diagram

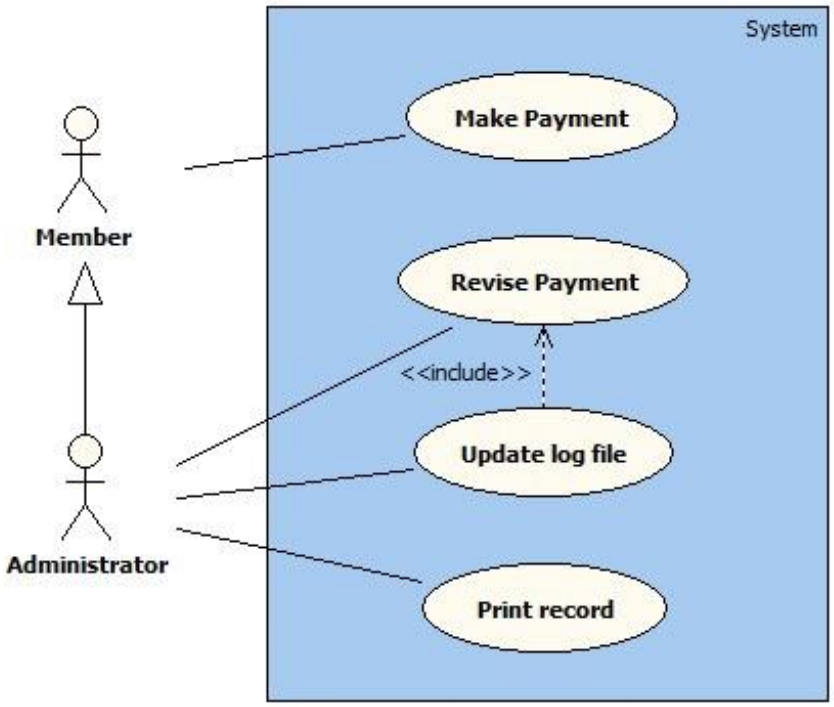
4.1 Customer system



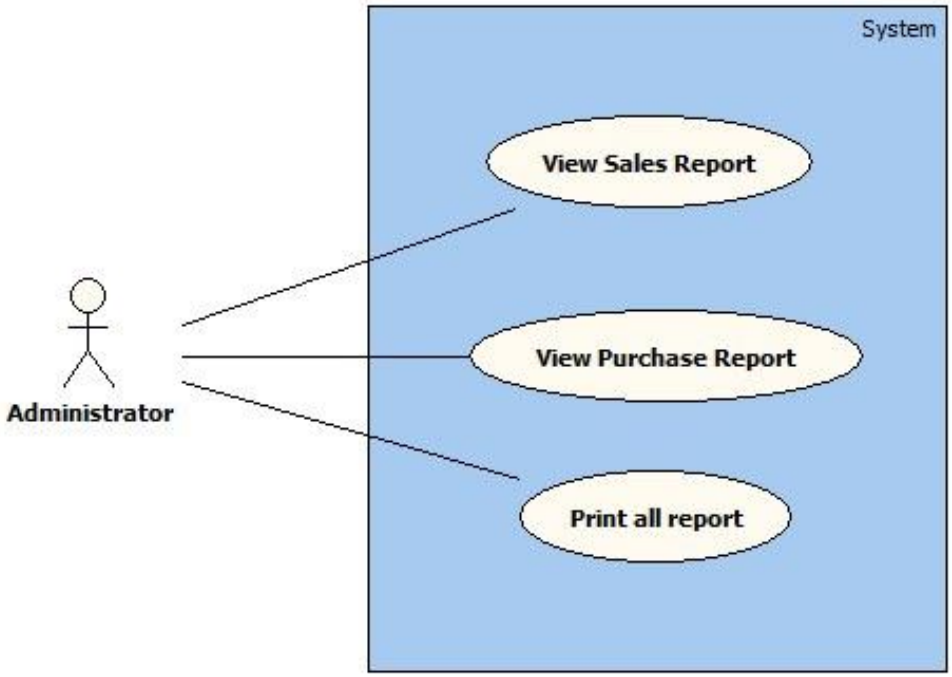
4.2 Inventory system



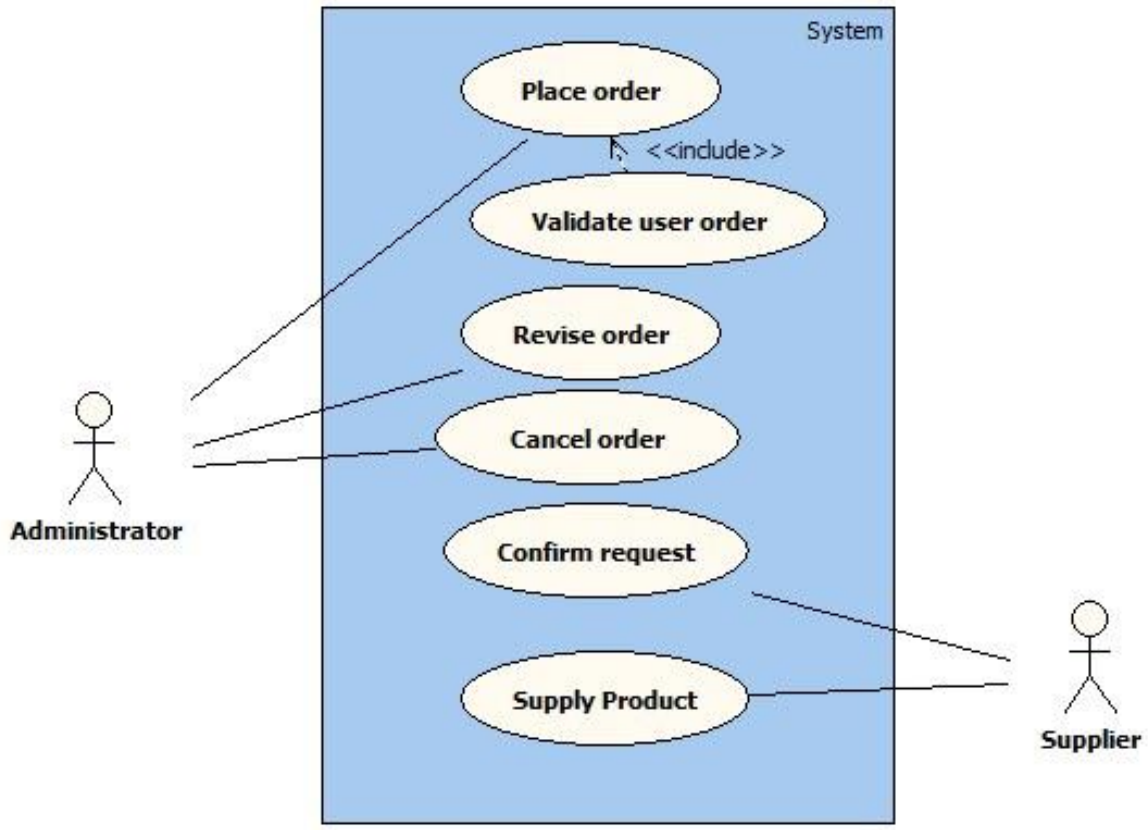
4.3 Payment system



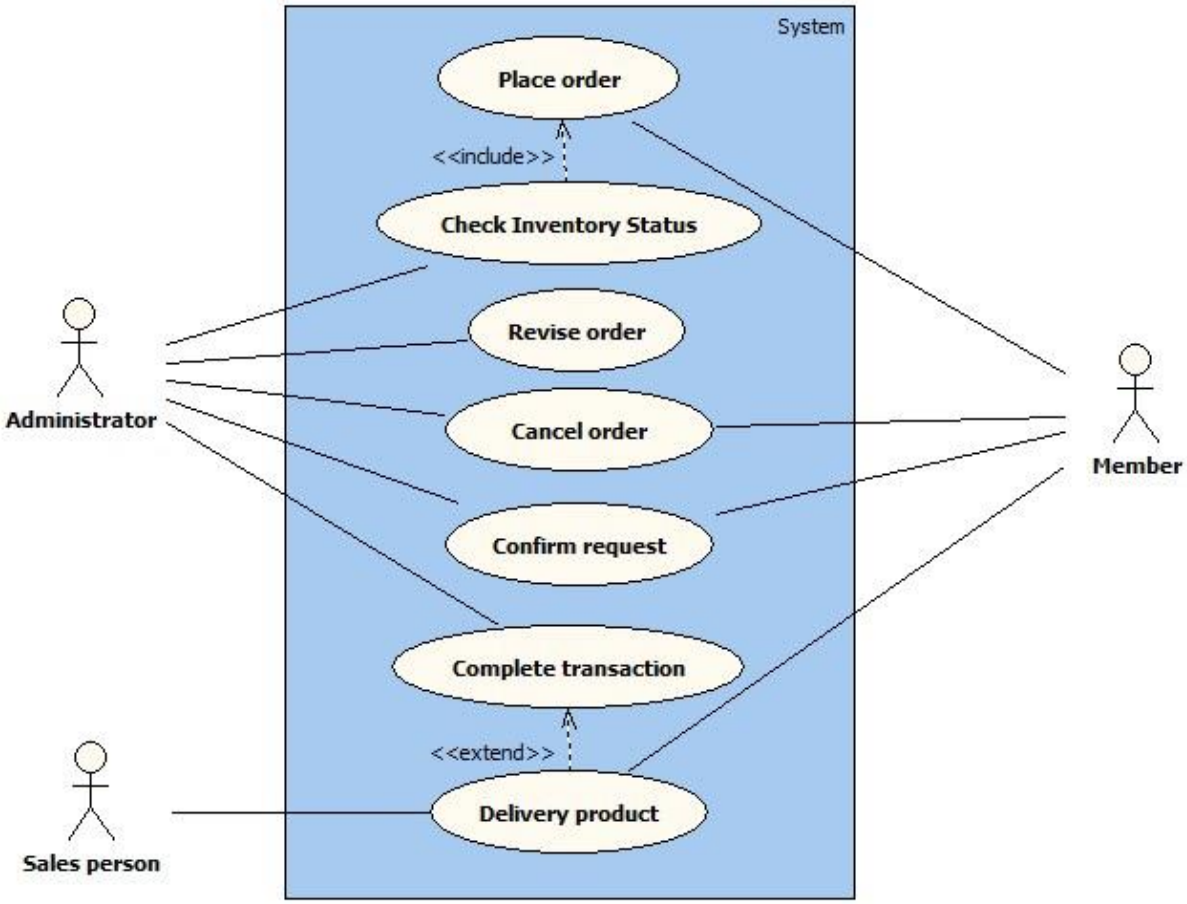
4.4 Report System



4.5 Purchase order system



4.6 Sales order system



5.0 Use case description

5.1 Customer system

<table>
<tr><td colspan="3">Use case: Register as member (Customer system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the customer register as a member.</td></tr>
<tr><td colspan="3">Pre-conditions: -</td></tr>
<tr><td colspan="3">Post conditions:
1. Successful condition
• Customer has registered as a member and member account is created</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Customer enter to the webpage system.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Select login in webpage.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Select sign up.</td><td>• Prompt Sign-up UI.</td></tr>
<tr><td>4</td><td>Enter all the required information.</td><td>• Perform information validation.</td></tr>
<tr><td>5</td><td>Customer register successfully.</td><td>• Member account is created.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid webpage.</td><td>• Message “The requested URL was not found on this server. Please try again” displayed.</td></tr>
<tr><td>1</td><td>Unable to display webpage content.</td><td>• Message “Web page is under construction. Please try again later.”</td></tr>
<tr><td>4</td><td>Invalid information.</td><td>• Display warning message to reject the details.
• Request to re-enter the details.</td></tr>
</table>

<table>
<tr><td colspan="3">Use case: Edit information (Customer system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the member edit personal information.</td></tr>
<tr><td colspan="3">Pre-conditions:
1. The login user must be member.</td></tr>
<tr><td colspan="3">Post conditions:
1. Successful condition
• Member has update their personal information successfully.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Member login to the webpage.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Member select personal information.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Member select update personal information.</td><td>-</td></tr>
<tr><td>4</td><td>Edit the personal information.</td><td>• Perform information validation.</td></tr>
<tr><td>5</td><td>Member has updated the information successfully.</td><td>• Updated successfully.
• Return to the webpage.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account/Wrong password – please try again” displayed.</td></tr>
<tr><td>4</td><td>Invalid information.</td><td>• Prompt alert box “Invalid information – please try again.”
• Resume step 4.</td></tr>
</table>

Use case: View product (Customer system)		
Overview: This case describes how the member view the product.		
Pre-conditions: 1. The login user must be member.		
Post conditions: 1. Successful condition • Member has view the product successfully.		
Event		Response
1	Member login to the webpage.	• Perform user account validation. • Different available alternative displayed.
2	Member select view product.	• Different available alternative displayed.
3	Member has view product successfully.	-
Extensions		
1	Invalid user account.	• Message “Invalid Account/Wrong password – please try again” displayed.
2	Invalid request.	• Close session. • Resume Homepage.

Use case: View latest promotion (Customer system)		
Overview: This case describes how the member view the latest promotion.		
Pre-conditions: 1. The login user must be member.		
Post conditions: 1. Successful condition • Member has view the latest promotion successfully.		
Event		Response
1	Member login to the webpage.	• Perform user account validation. • Different available alternative displayed.
2	Member select latest promotion.	• Different available alternative displayed.
3	Member has view product successfully.	-
Extensions		
1	Invalid user account.	• Message "Invalid Account/Wrong password – please try again" displayed.
2	Invalid request.	• Close session. • Resume Homepage.

Use case: Place order (Customer system)		
Overview: This case describes how the member place an order.		
Pre-conditions: 1. The login user must be member.		
Post conditions: 1. Successful condition • Member has place order successfully. 1. Failure condition • The logs have been updated accordingly.		
Event		Response
1	Member login to the webpage.	• Perform user account validation. • Different available alternative displayed.
2	Member select product from website in navigation bar.	• Different available alternative displayed.
3	Member click on place order button.	• Prompt place order UI.
4	Enter all the required information.	• Perform information validation.
5	Order created successfully.	• New Sales order is created successfully.
6	Member print the sales order.	• Perform printer validation. • Return to sales order system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
4	Invalid details.	• Display warning message to reject the details. • Request to re-enter the details.
6	Unable connect to the printer.	• Prompt alert message "Printer is offline! Please check!" • Resume step 5.

Use case: Cancel order (Sales order system)		
Overview: This case describes how the member cancel an order.		
Pre-conditions: 1. The login user must be member.		
Post conditions: 1. Successful condition • Member has cancel the stock successfully.		
Event		Response
1	Member login to the webpage.	• Perform user account validation. • Different available alternative displayed.
2	Member select product history.	• Different available alternative displayed.
3	Member select an order.	-
4	Cancel the order.	• Perform confirm validation.
5	Member cancel the order successfully.	• The order is cancel successfully. • Return to Sales order system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
4	Invalid request.	• Close session. • Resume step 3.

Use case: Feedback (Customer system)		
Overview: This case describes how the member provide feedback.		
Pre-conditions: 1. The login user must be member.		
Post conditions: 1. Successful condition • Member has provide feedback successfully.		
Event		Response
1	Member login to the webpage.	• Perform user account validation. • Different available alternative displayed.
2	Member select support.	• Different available alternative displayed.
3	Select feedback.	-
4	Enter all the required information.	• Perform information validation.
5	Submit feedback.	• Perform feedback UI.
6	Print out feedback.	• Perform printer validation.
7	Member provide feedback successfully.	• Return to Homepage.
Extensions		
1	Invalid user account.	• Message “Invalid Account – please try again” displayed.
4	Invalid input.	• Display warning message to reject the details. • Request to re-enter the details.
6	Unable connect to the printer.	• Prompt alert message “Printer is offline! Please check!” • Resume step 5.

5.2 Inventory System

<table>
<tr><td colspan="3">Use case: Add Stock (Inventory system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the administrator create new stock.</td></tr>
<tr><td colspan="3">Pre-conditions:
1. The login user must be administrator.</td></tr>
<tr><td colspan="3">Post conditions:
1. Successful condition
• Administrator has purchased the goods successfully.
2. Failure condition
• The logs have been updated accordingly.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Administrator login to the system.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Administrator select Inventory system.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Administrator select add new record.</td><td>• Prompt add new record UI.</td></tr>
<tr><td>4</td><td>Administrator enter all the required information.</td><td>• Perform details validation.</td></tr>
<tr><td>5</td><td>Administrator create the record successfully.</td><td>• New stock is created successfully.
• Return to Inventory system.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account – please try again” displayed.</td></tr>
<tr><td>4</td><td>Invalid details.</td><td>• Display warning message to reject the details entered by administrator.
• Request to re-enter the details.</td></tr>
</table>

Use case: Update Stock (Inventory system)		
Overview: This case describes how the administrator update stock.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has updated the stock successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Inventory system.	• Different available alternative displayed.
3	Select view stock.	-
4	Select a stock.	-
5	Administrator edit the stock details.	• Perform details validation.
6	Administrator update the stock record successfully.	• The record is updated successfully. • Return to view stock category.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Invalid details.	• Prompt alert box "Invalid information – please try again." • Request to re-enter the details.
6	The record is not created successfully.	• Message "Unable to update this result – please try again". • Resume step 3.

Use case: Add Stock Category (Inventory system)		
Overview: This case describes how the administrator add new stock category.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has create a new category successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Inventory system.	• Different available alternative displayed.
3	Select add stock category.	-
4	Administrator enter all the required information.	• Perform details validation.
5	Administrator create the record successfully.	• The record is stored successfully. • Return to view stock category.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
4	Invalid details.	• Prompt alert box "Invalid information – please try again." • Request to re-enter the details.
5	The record is not created successfully.	• Message "Unable to create this result – please try again". • End with a failure condition. • Resume step 3

Use case: Update Stock Category (Inventory system)		
Overview: This case describes how the administrator update stock category.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has updated stock category successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Inventory system.	• Different available alternative displayed.
3	Select view stock category.	-
4	Select a category	-
5	Edit the category details.	• Verify all the details.
6	Save changes.	• The record is created successfully. • Return to view stock category.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Invalid details.	• Prompt alert box "Invalid information – please try again." • Request to re-enter the details.
6	The record is not created successfully.	• Message "Unable to create this result – please try again". • End with a failure condition. • Resume step 3

Use case: Delete Stock Category (Inventory system)		
Overview: This case describes how the administrator delete stock category.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has deleted the stock category successfully. • The logs have been updated accordingly.		
	Event	Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Inventory system.	• Different available alternative displayed.
3	Select add stock category.	-
4	Select view stock category	-
5	Select clicks delete button.	• Prompt confirmation box "Do you want to delete this record?"
6	Administrator delete the record successfully.	• The record is deleted. • The logs have been update. • Resume step 4.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Invalid request.	• Prompt alert box "Invalid request – please try again." • Resume step 4.

Use case: Adjust stock (Inventory system)		
Overview: This case describes how the administrator adjust the stock quantity.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has adjust the stock successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Inventory system.	• Different available alternative displayed.
3	Select view stock.	-
4	Select adjust stock quantity	-
5	Administrator adjust the stock.	• Perform checking.
5	Adjust the stock successfully.	• The record is stored successfully. • Return to view stock category.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Insufficient stock quantity.	• Prompt warning message "Number of input is out of the range. Please try again." • Request to re-enter adjust stock quantity.

5.3 Payment System

<table>
<tr><td colspan="3">Use case: Make payment (Payment system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the member make payment.</td></tr>
<tr><td colspan="3">Pre-conditions: Administrator login to the system.</td></tr>
<tr><td colspan="3">Post conditions:

1. Successful condition
• Member has make payment successfully.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Administrator select Payment system.</td><td>• Alternative displayed.</td></tr>
<tr><td>2</td><td>Administrator select add payment.</td><td>• Prompt payment UI.</td></tr>
<tr><td>3</td><td>Enter new payment.</td><td>• Verify member name, IC number.
• Payment accepted.
• Update database.</td></tr>
<tr><td>4</td><td>Print payment record.</td><td>• Perform printer validation.</td></tr>
<tr><td>5</td><td>Member has made payment successfully.</td><td>• Return to Payment system.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>3</td><td>Insufficient amount</td><td>• Display message to reject the amount.
• Request to re-enter the amount.</td></tr>
<tr><td>4</td><td>Unable connect to the printer.</td><td>• Prompt alert message “Printer is offline! Please check!”
• Resume step 5.</td></tr>
</table>

Use case: Revise payment (Payment system)		
Overview: This case describes how the member revise the payment.		
Pre-conditions: Administrator login to the system.		
Post conditions: 1. Successful condition • Member has revise the payment successfully.		
Event		Response
1	Administrator select Payment system.	• Alternative displayed.
2	Administrator select a record.	• Prompt payment UI.
3	Revise the payment.	• Verify member name, IC number. • Payment accepted. • Update database.
4	Print payment record.	• Perform printer validation.
5	Member has revise the payment successfully.	• Return to Payment system.
Extensions		
3	Insufficient amount	• Display message to reject the amount. • Request to re-enter the amount.
4	Unable connect to the printer.	• Prompt alert message “Printer is offline! Please check!” • Resume step 5.

5.4 Report System

<table>
<tr><td colspan="3">Use case: View sales report (Report system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the administrator view the sales report.</td></tr>
<tr><td colspan="3">Pre-conditions:
1. The login user must be administrator.</td></tr>
<tr><td colspan="3">Post conditions:
1. Successful condition
• Administrator has view the sales report.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Administrator login to the system.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Administrator select report system.</td><td>• Alternative displayed.</td></tr>
<tr><td>3</td><td>Administrator select sales report session and select the date.</td><td>• Prompt result UI.</td></tr>
<tr><td>4</td><td>Administrator view the sales report successfully.</td><td>• Return to report system.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account – please try again” displayed.</td></tr>
<tr><td>3</td><td>Invalid request.</td><td>• Prompt alert message “Invalid request – please try again.”
• Request to re-enter the details.</td></tr>
</table>

Use case: View purchase report (Report system)		
Overview: This case describes how the administrator view the purchase report.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has view the purchase report.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select report system.	• Alternative displayed.
3	Administrator select purchase report session and select the date.	• Prompt result UI.
4	Administrator view the sales report successfully.	• Return to report system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
3	Invalid request.	• Prompt alert message "Invalid request – please try again." • Request to re-enter the details.

Use case: Print sales report (Report system)		
Overview: This case describes how the administrator print the sales report.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has view the purchase report.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select report system.	• Alternative displayed.
3	Administrator select sales report session and select the date.	• Prompt result UI.
4	Administrator click on print button of result UI.	• Perform printer validation.
5	Administrator print the sales report successfully.	• Return to report system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
3	Invalid request.	• Prompt alert message "Invalid request – please try again." • Request to re-enter the details.
4	Unable connect to the printer.	• Prompt alert message "Printer is offline! Please check!" • Resume step 3.

Use case: Print purchase report (Report system)		
Overview: This case describes how the administrator print the purchase report.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has view the purchase report.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select report system.	• Alternative displayed.
3	Administrator select purchase report session and select the date.	• Prompt result UI.
4	Administrator click on print button of result UI.	• Perform printer validation.
5	Administrator print the purchase report successfully.	• Return to report system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
3	Invalid request.	• Prompt alert message "Invalid request – please try again." • Request to re-enter the details.
4	Unable connect to the printer.	• Prompt alert message "Printer is offline! Please check!" • Resume step 3.

5.5 Purchase order system

<table>
<tr><td colspan="3">Use case: Place order (Purchase order system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the administrator place an order.</td></tr>
<tr><td colspan="3">Pre-conditions:

1. The login user must be administrator.</td></tr>
<tr><td colspan="3">Post conditions:

1. Successful condition
• Administrator has placed order successfully.
2. Failure condition
• The logs have been updated accordingly.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Administrator login to the system.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Select Purchase management system.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Select add purchase order.</td><td>• Prompt place order UI.</td></tr>
<tr><td>4</td><td>Enter all the required information.</td><td>• Perform information validation.</td></tr>
<tr><td>5</td><td>Order created successfully.</td><td>• New Purchase order is created successfully.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account – please try again” displayed.</td></tr>
<tr><td>4</td><td>Invalid information.</td><td>• Display warning message to reject the details.
• Request to re-enter the details.</td></tr>
</table>

Use case: Revise order (Purchase order system)		
Overview: This case describes how the administrator revise an order.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has revise the order successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Purchase order system.	• Different available alternative displayed.
3	Administrator select view Purchase order.	-
4	Select an order	-
5	Edit the order information.	• Perform information validation.
6	Staff revise the order successfully.	• The order is updated successfully. • Return to Purchase order system.
Extensions		
1	Invalid user account.	• Message “Invalid Account – please try again” displayed.
5	Invalid information.	• Prompt alert box “Invalid information – please try again.” • Request to re-enter the details.

Use case: Cancel order (Purchase order system)		
Overview: This case describes how the administrator cancel an order.		
Pre-conditions: 1. The login user must be administrator.		
Post conditions: 1. Successful condition • Administrator has cancel the stock successfully.		
Event		Response
1	Administrator login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select Purchase order system.	• Different available alternative displayed.
3	Administrator select view Purchase order.	-
4	Select an order	-
5	Cancel the order.	• Perform confirm validation.
6	Administrator cancel the order successfully.	• The order is cancel successfully. • Return to Purchase order system.
Extensions		
1	Invalid user account.	• Message “Invalid Account – please try again” displayed.
5	Invalid request.	• Close session. • Resume step 3.

<table>
<tr><td colspan="3">Use case: Confirm request (Purchase order system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the supplier confirm order.</td></tr>
<tr><td colspan="3">Pre-conditions:

1. The login user must be supplier.</td></tr>
<tr><td colspan="3">Post conditions:

1. Successful condition
• Supplier has confirm the order successfully.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Supplier login to the system.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Select Order system.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Select view pending order.</td><td>-</td></tr>
<tr><td>4</td><td>Confirm order.</td><td>• Perform information validation.</td></tr>
<tr><td>5</td><td>Order has been confirm successfully.</td><td>• The record has been confirm successfully.
• Return to view pending order.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account – please try again” displayed.</td></tr>
<tr><td>4</td><td>Insufficient information.</td><td>• Reject order.</td></tr>
</table>

5.6 Sales order system

<table>
<tr><td colspan="3">Use case: Place order (Sales order system)</td></tr>
<tr><td colspan="3">Overview: This case describes how the staff place an order.</td></tr>
<tr><td colspan="3">Pre-conditions:
1. The login user must be staff.</td></tr>
<tr><td colspan="3">Post conditions:
1. Successful condition
• Staff has placed order successfully.
1. Failure condition
• The logs have been updated accordingly.</td></tr>
<tr><td colspan="2">Event</td><td>Response</td></tr>
<tr><td>1</td><td>Staff login to the system.</td><td>• Perform user account validation.
• Different available alternative displayed.</td></tr>
<tr><td>2</td><td>Staff select add sales order system.</td><td>• Different available alternative displayed.</td></tr>
<tr><td>3</td><td>Staff select add sales.</td><td>• Prompt place order UI.</td></tr>
<tr><td>4</td><td>Enter all the required information.</td><td>• Perform information validation.</td></tr>
<tr><td>5</td><td>Order created successfully.</td><td>• New Sales order is created successfully.
• Return Sales order system.</td></tr>
<tr><td colspan="3">Extensions</td></tr>
<tr><td>1</td><td>Invalid user account.</td><td>• Message “Invalid Account – please try again” displayed.</td></tr>
<tr><td>4</td><td>Invalid details.</td><td>• Display warning message to reject the details.
• Request to re-enter the details.</td></tr>
</table>

Use case: Revise order (Sales order system)		
Overview: This case describes how the staff revise an order.		
Pre-conditions: 1. The login user must be administrator/staff.		
Post conditions: 1. Successful condition • Staff has revised the order successfully.		
Event		Response
1	Staff login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Staff select Sales order system.	• Different available alternative displayed.
3	Staff select view sales order.	-
4	Select an order	-
5	Staff edit the sales order information.	• Perform details validation.
6	Staff revise the order successfully.	• The order is updated successfully. • Return to Sales order system.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Invalid information.	• Prompt alert box "Invalid information – please try again." • Request to re-enter the details.
6	The record is not created successfully.	• Message "Unable to update this result – please try again". • Resume step 4.

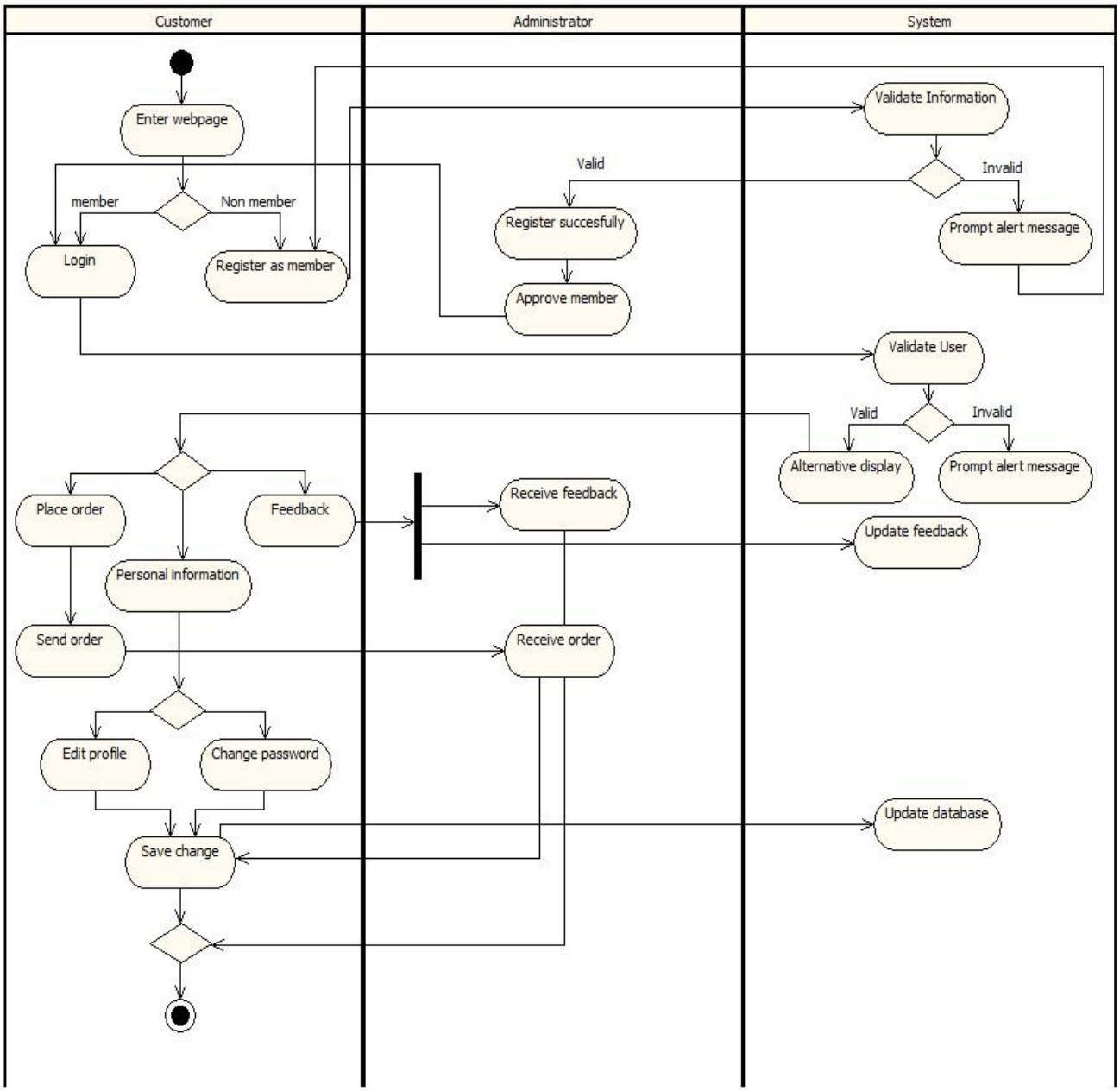
Use case: Cancel order (Sales order system)		
Overview: This case describes how the staff cancel an order.		
Pre-conditions: 1. The login user must be administrator/staff.		
Post conditions: 1. Successful condition • Staff has cancel the stock successfully.		
Event		Response
1	Staff login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Staff select Sales order system.	• Different available alternative displayed.
3	Staff select view sales order.	-
4	Select an order	-
5	Cancel the order.	• Perform confirm validation.
6	Staff cancel the order successfully.	• The order is cancel successfully. • Return to Sales order system.
Extensions		
1	Invalid user account.	• Message “Invalid Account – please try again” displayed.
5	Invalid request.	• Close session. • Resume step 3.

Use case: Confirm request (Sales order system)		
Overview: This case describes how the administrator/staff confirm customer's order.		
Pre-conditions: 1. The login user must be administrator/staff.		
Post conditions: 1. Successful condition • Administrator has confirm customer's order successfully.		
Event		Response
1	Administrator/staff login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Select Sales order system.	• Different available alternative displayed.
3	Select view pending order.	-
4	Confirm customer's order	• Perform details validation.
5	Order has been confirm successfully.	• The record has been confirm successfully. • Return to view pending order.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
4	Insufficient information.	• Reject customer's order.

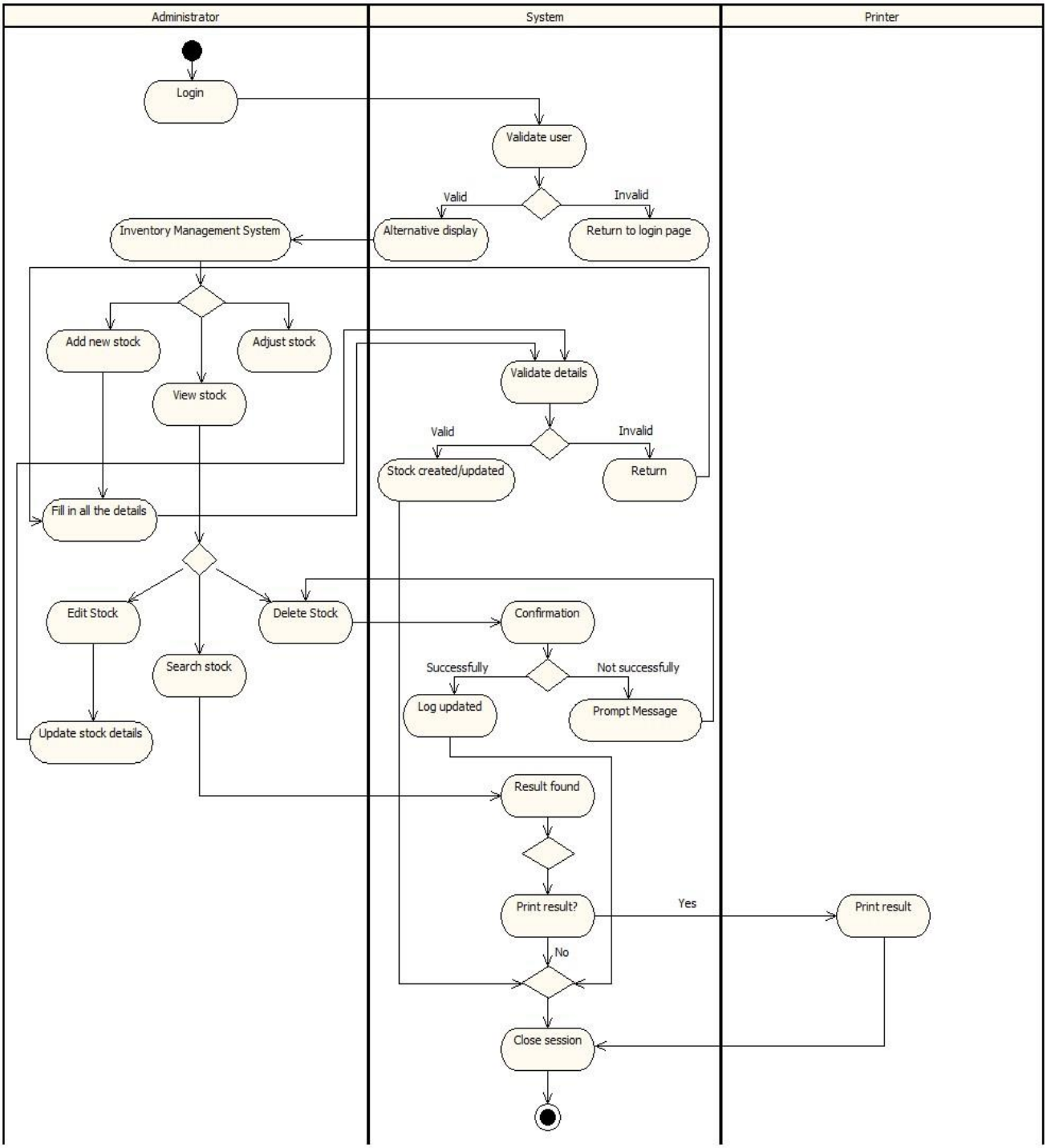
Use case: Delivery product (Sales order system)		
Overview: This case describes how the sales man delivery product to customer.		
Pre-conditions: 1. The login user must be sales man.		
Post conditions: 1. Successful condition • Sales man has delivered the product to customer successfully.		
Event		Response
1	Sales man login to the system.	• Perform user account validation. • Different available alternative displayed.
2	Administrator select delivery record.	• Different available alternative displayed.
3	Select delivery order.	-
4	Select a delivery record.	-
5	View customer's order.	• Perform order validation.
6	Print order and ready to delivery.	• Perform printer validation.
7	Sales man delivery the product successfully.	• Update shipping status.
Extensions		
1	Invalid user account.	• Message "Invalid Account – please try again" displayed.
5	Insufficient information.	• Redirect to the customer. • Close session.

6.0 Activity diagram

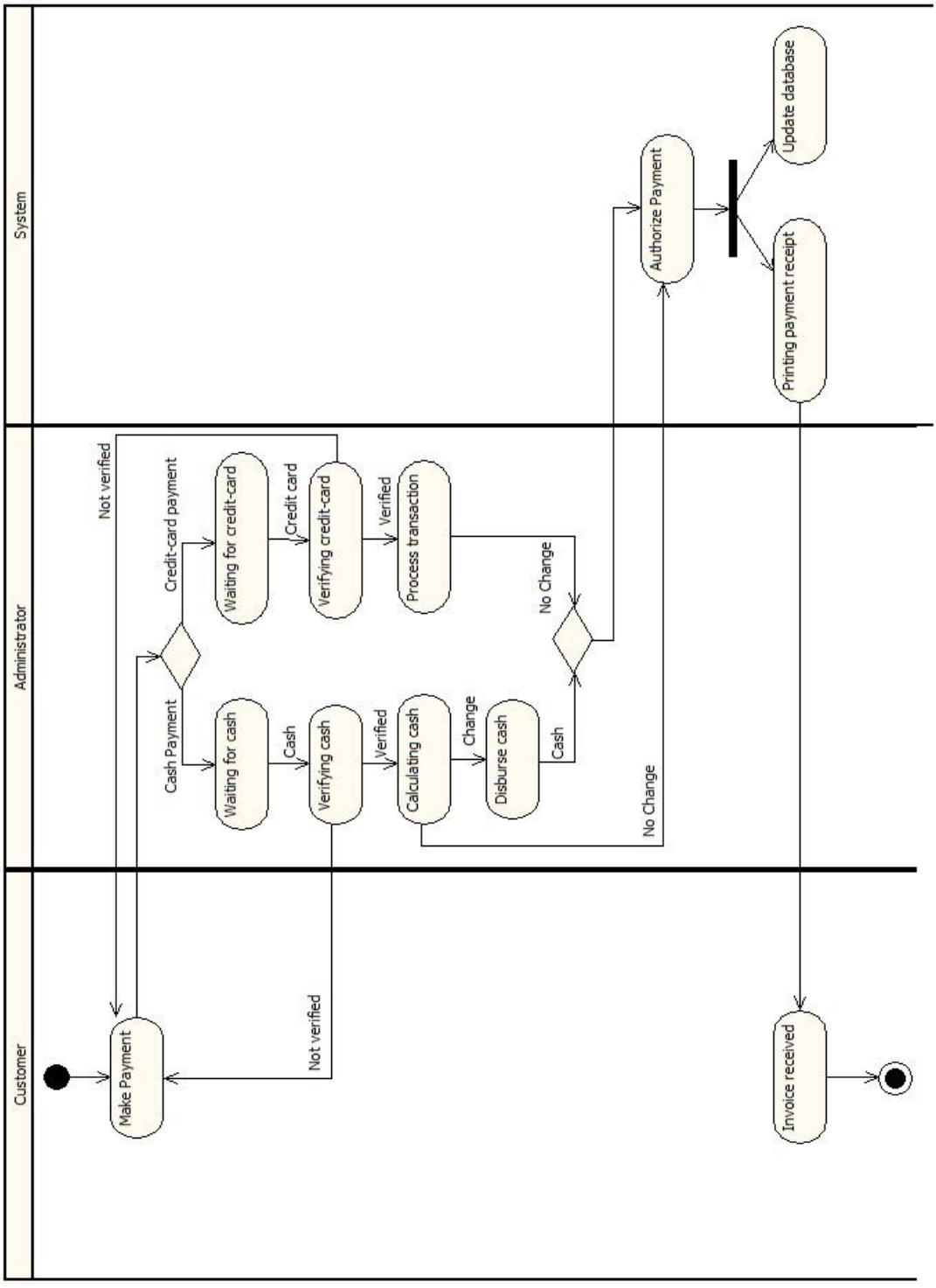
6.1 Customer system



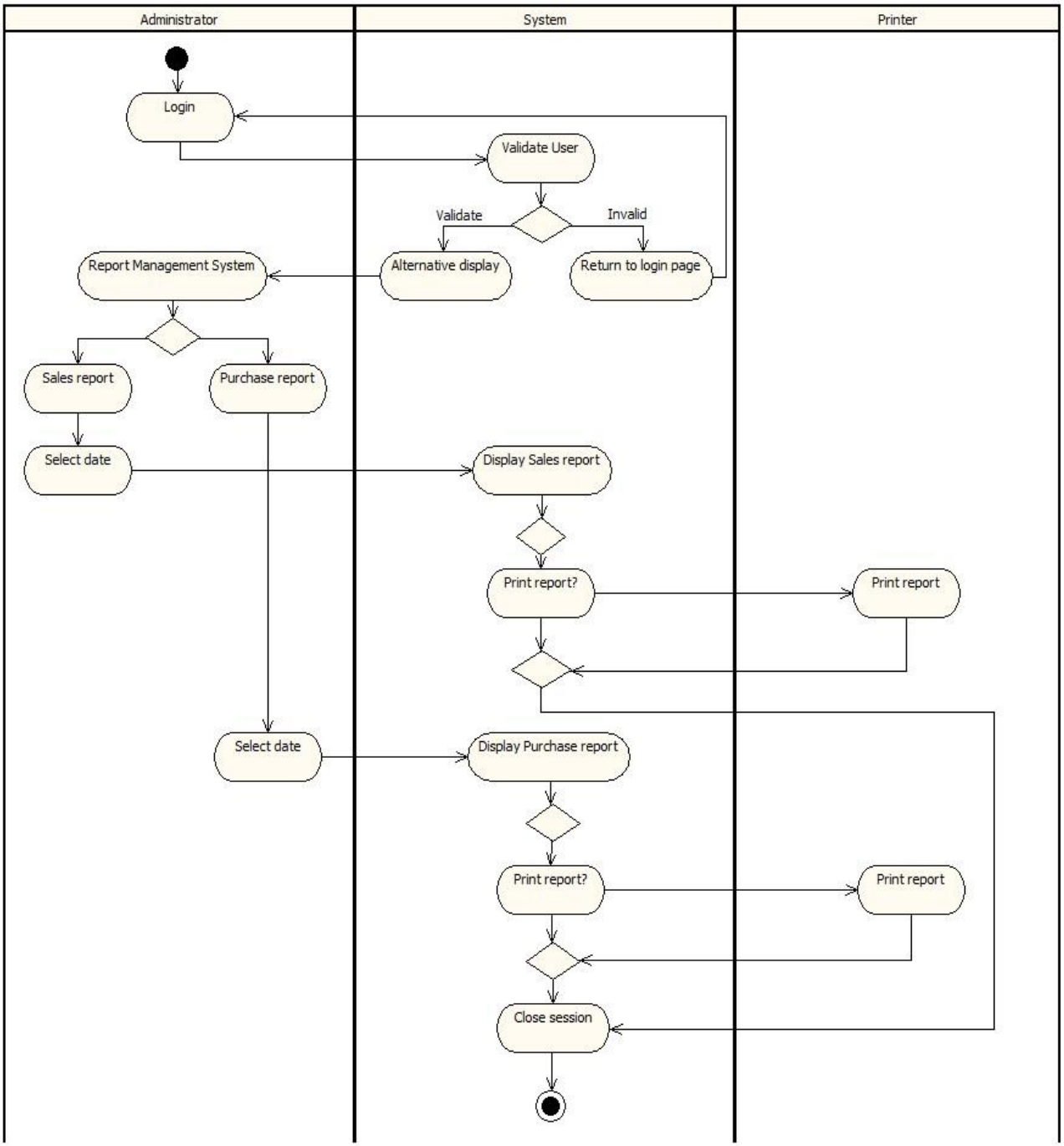
6.2 Inventory System



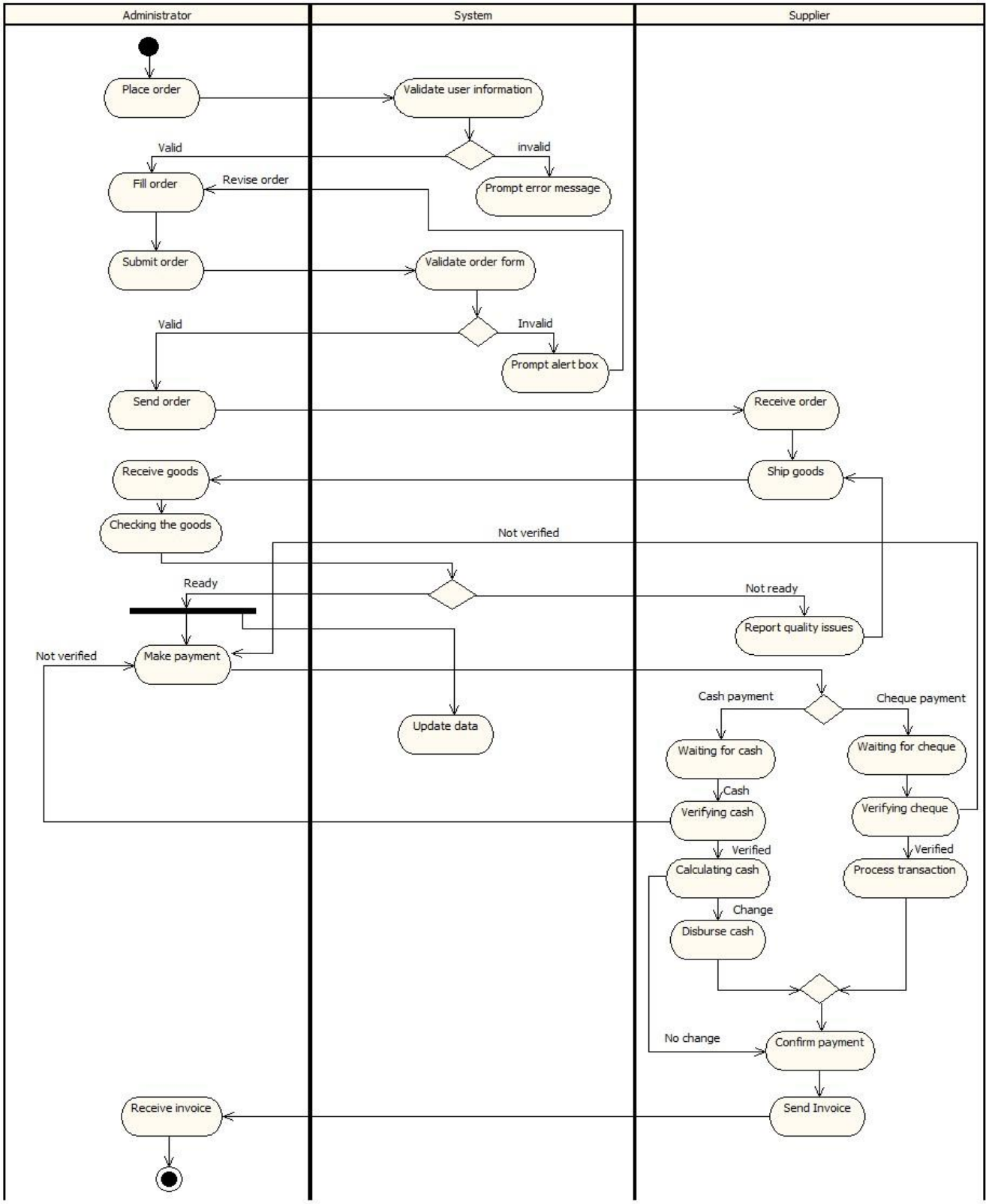
6.3 Payment System



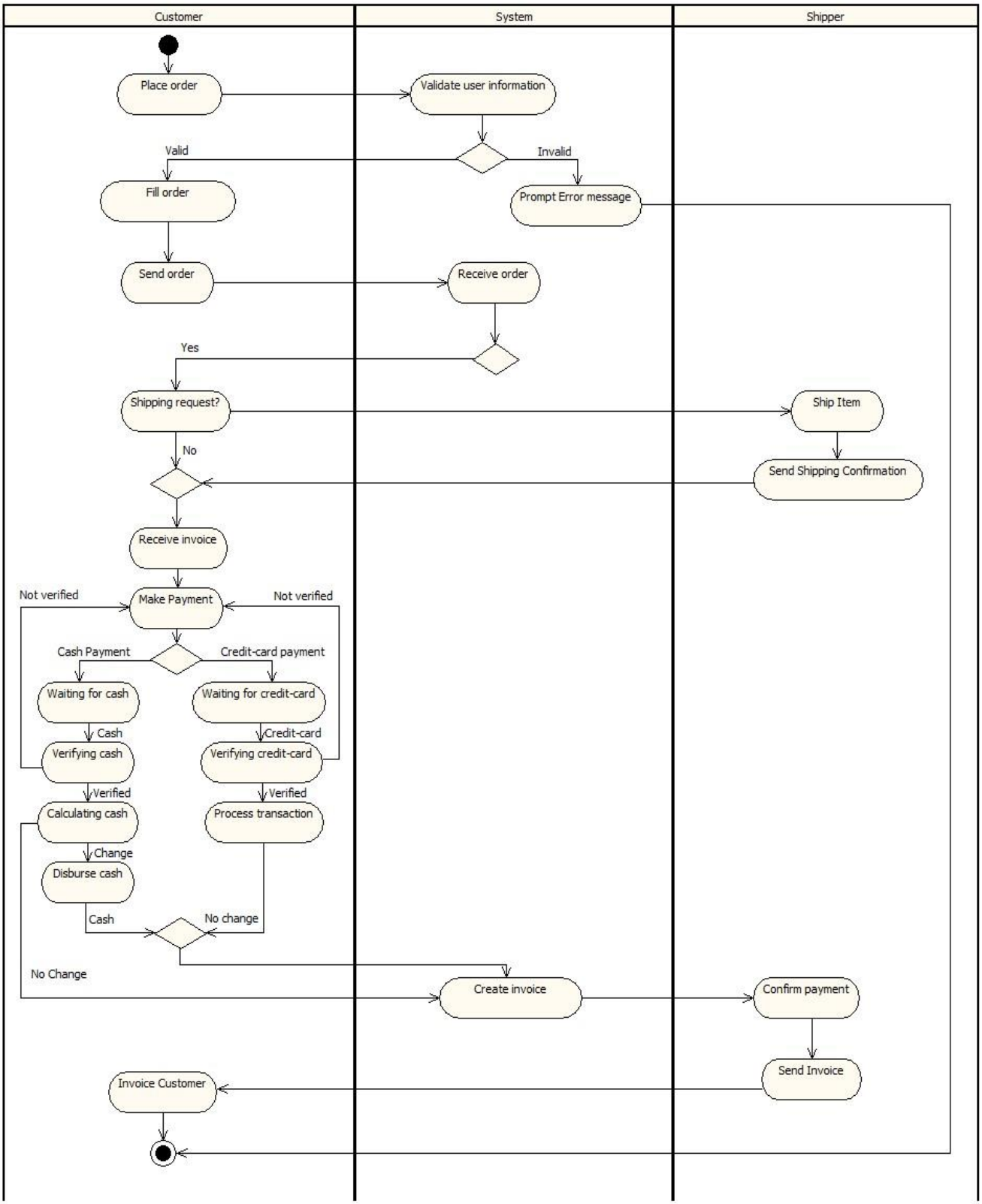
6.4 Report System



6.5 Purchase order system

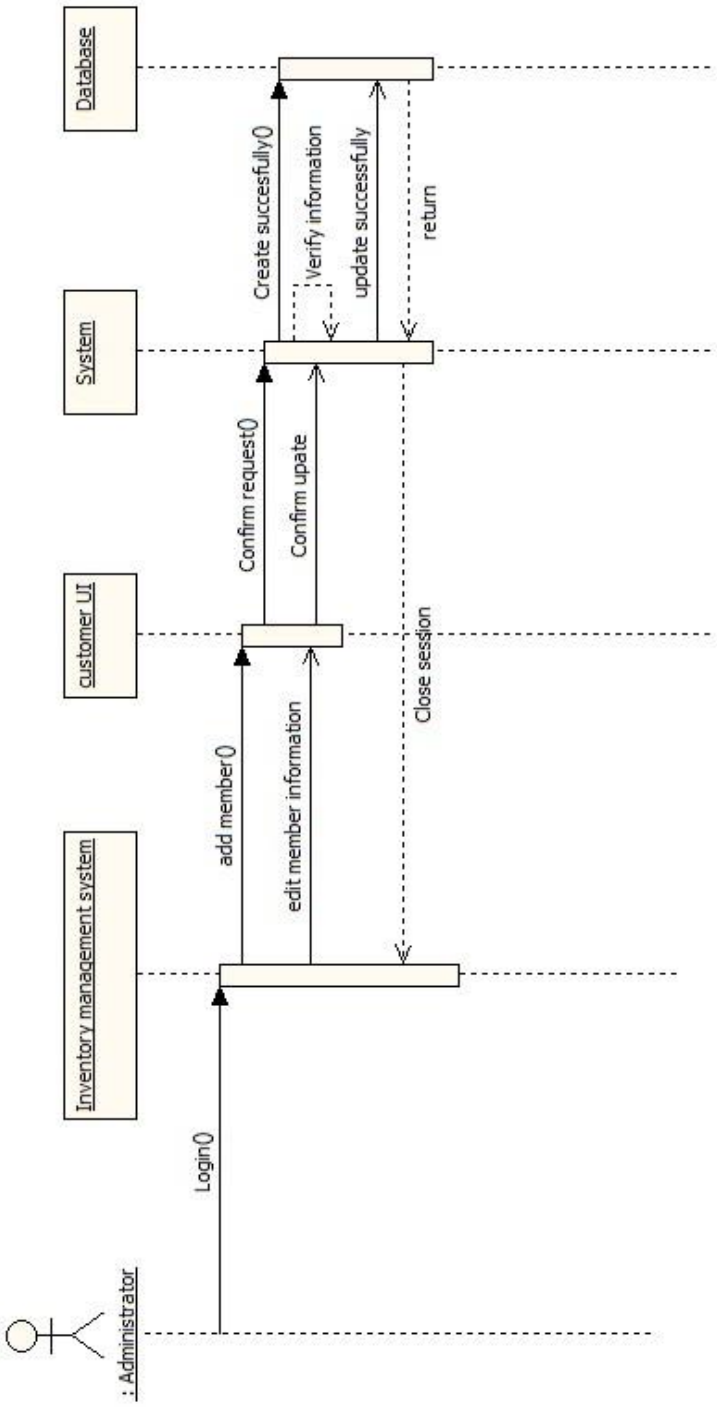


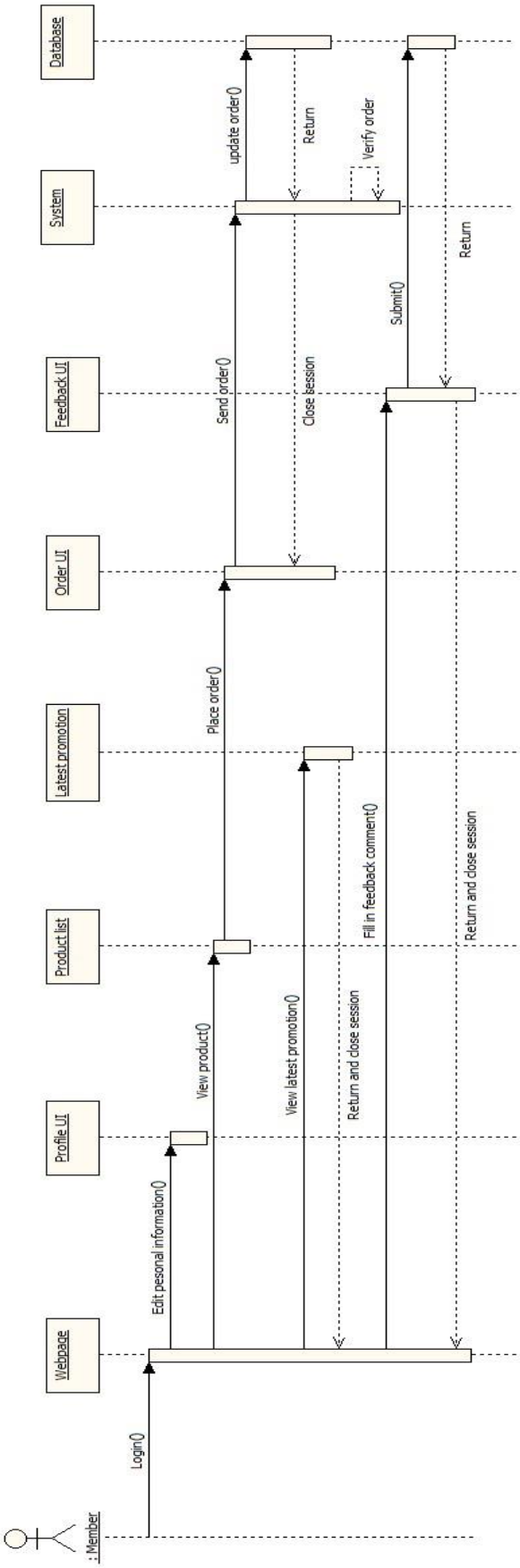
6.6 Sales order system



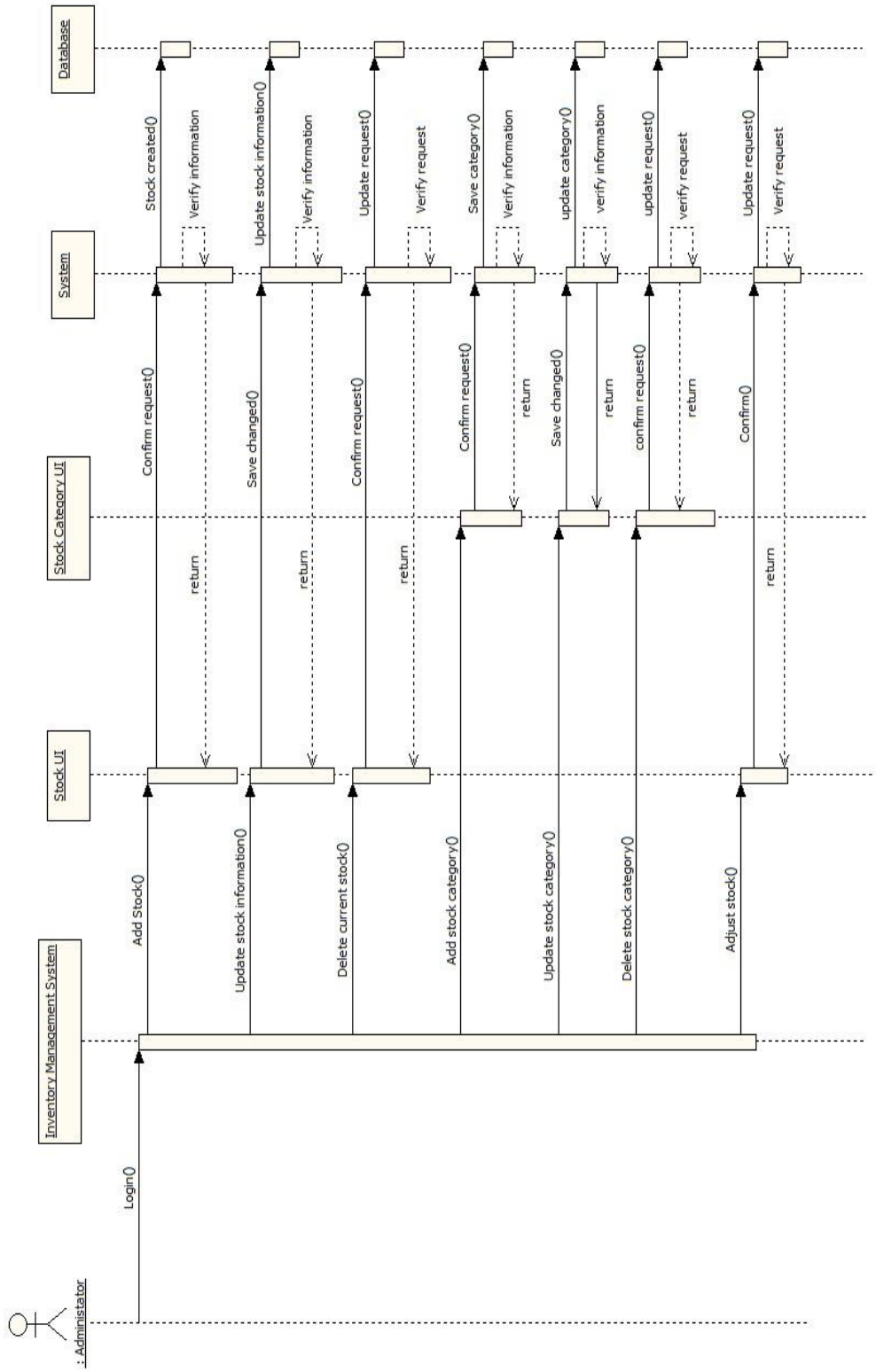
7.0 Sequences diagram

7.1 Customer system

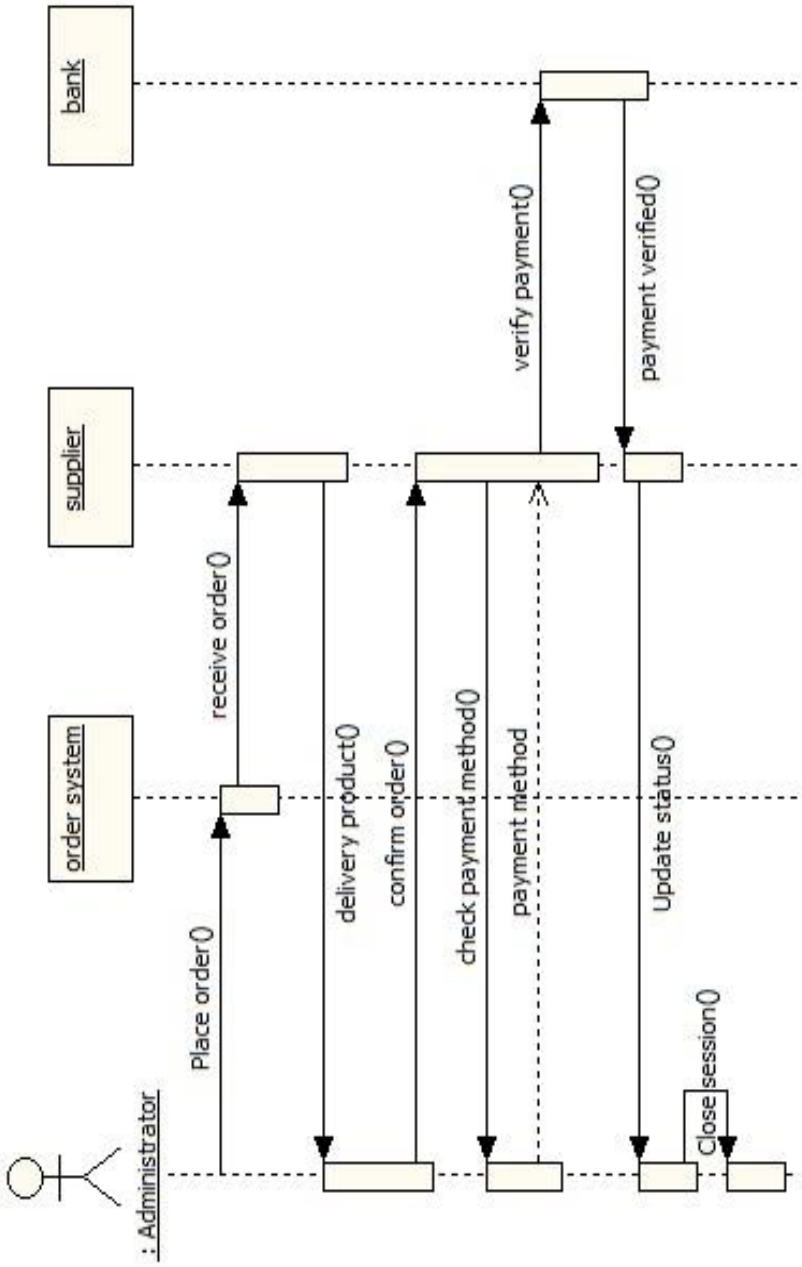


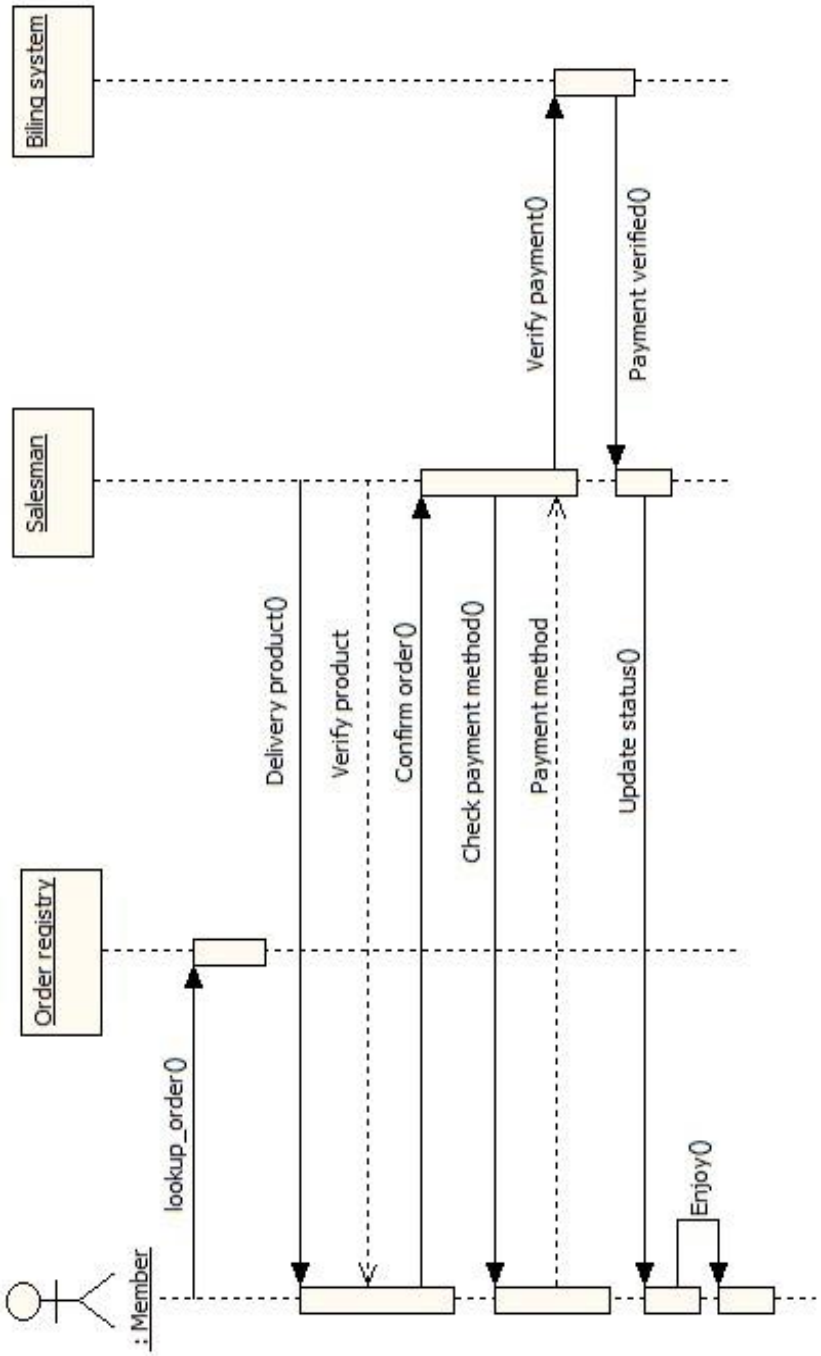

: Member
Webpage
Profile UI
Product list
Latest promotion
Order UI
Feedback UI
System
Database
Login()
Edit pesonal information()
View product()
View latest promotion()
Place order()
Send order()
update order()
Return
Verify order
Close Session
Return and close session
Fill in feedback comment()
Submit()
Return
Return and close session

7.2 Inventory System

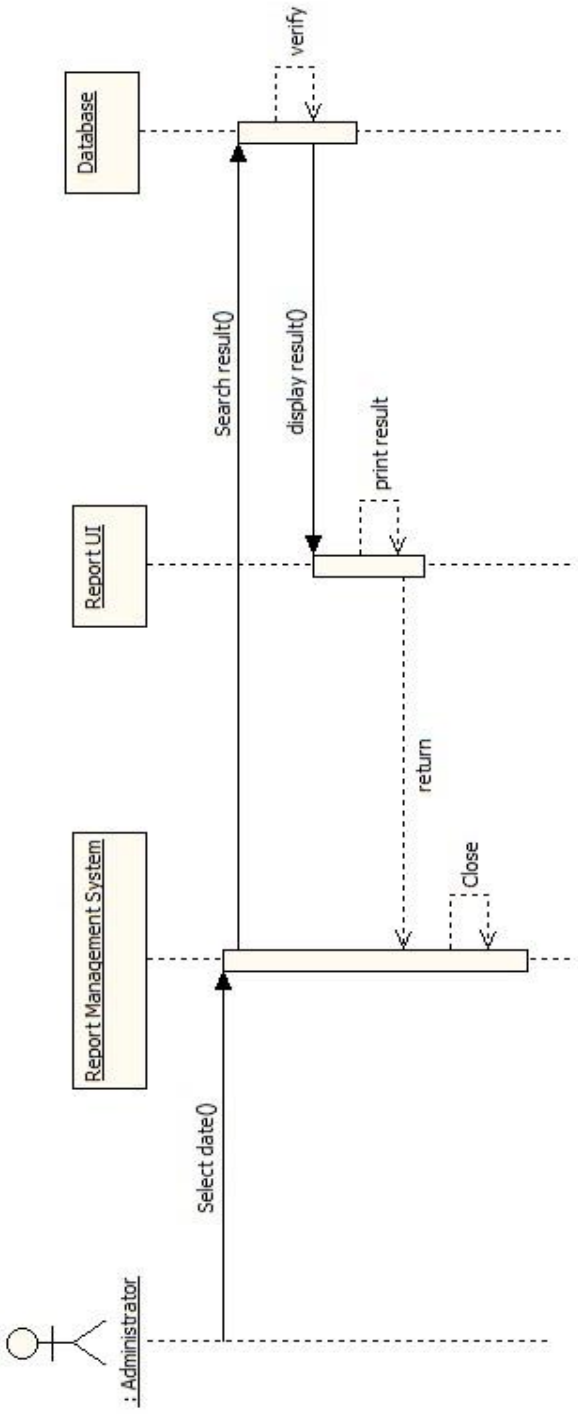


7.3 Payment System

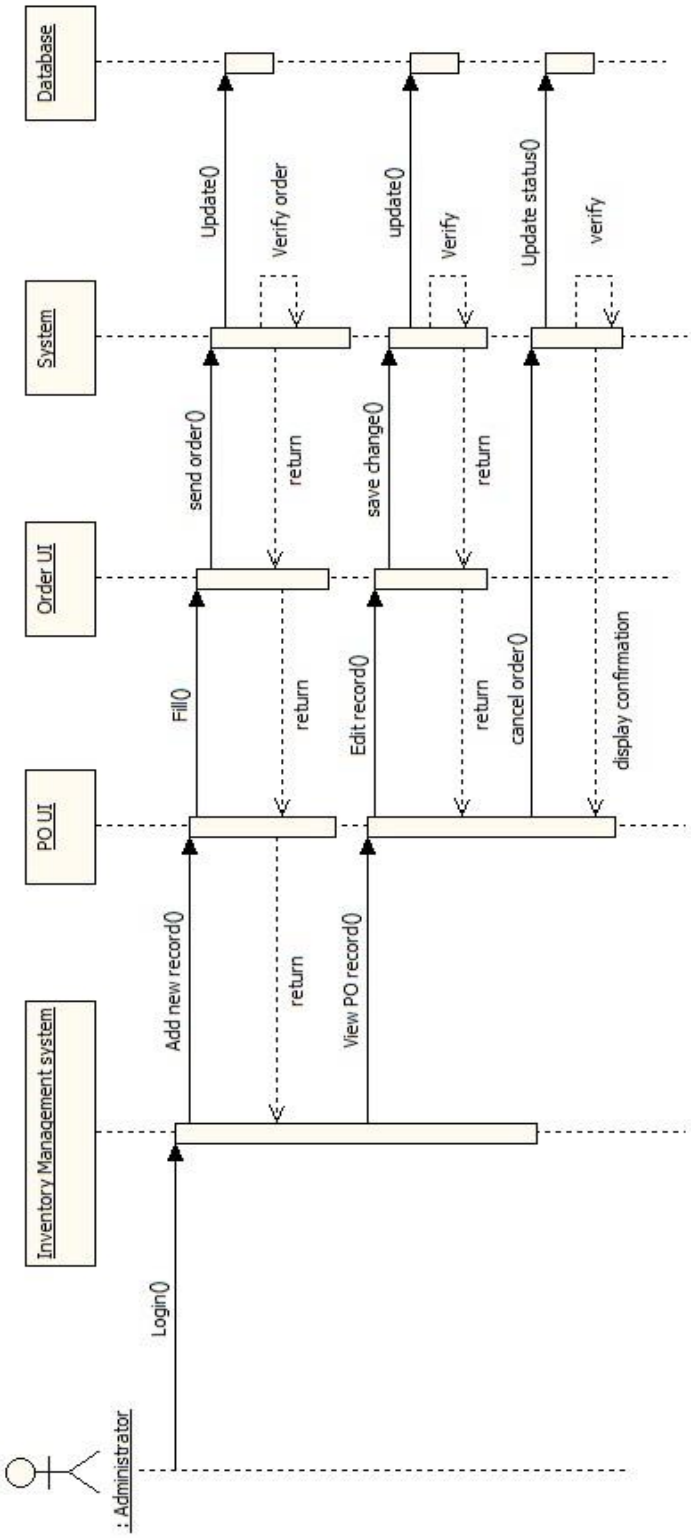


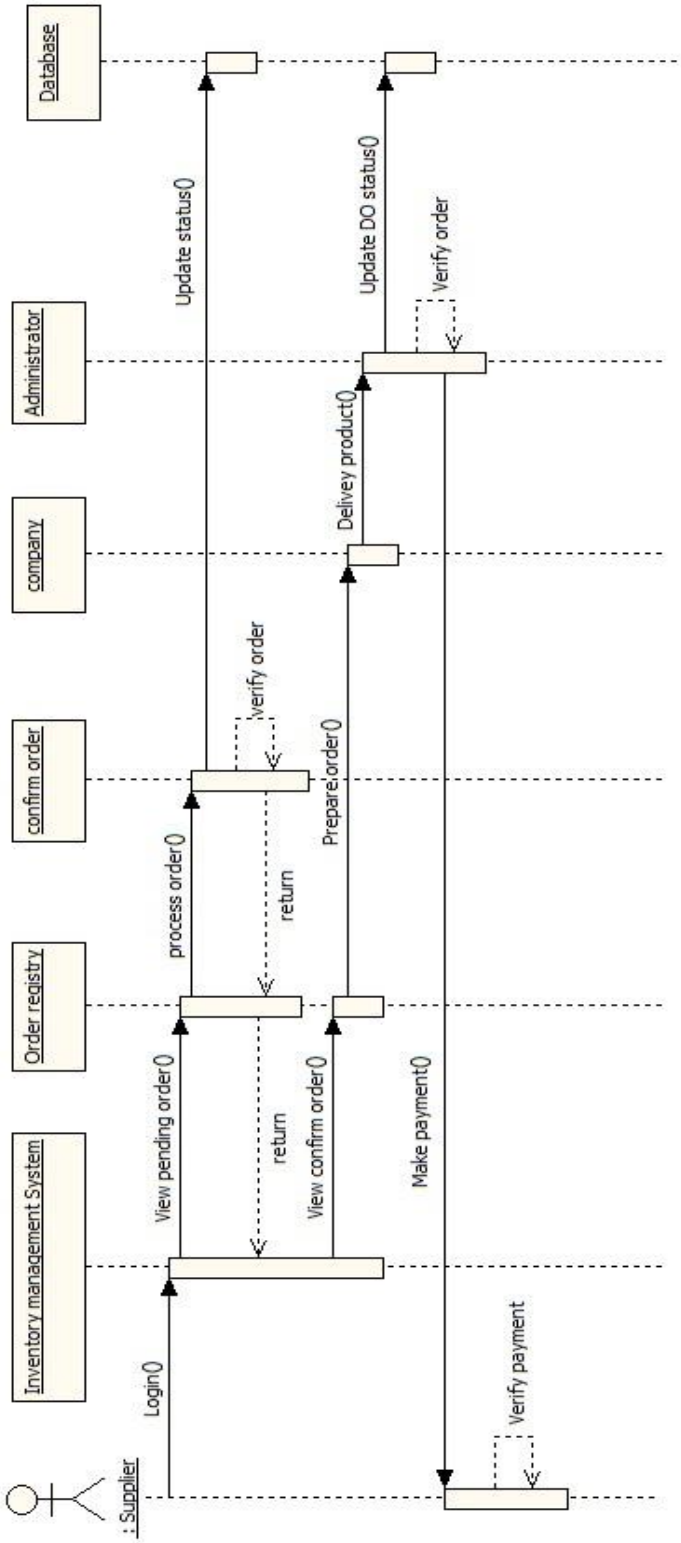

Billing system
Salesman
Order registry
: Member
lookup_order()
Delivery product()
Verify product
Confirm order()
Check payment method()
Payment method
Update status()
Enjoy()
Verify payment()
Payment verified()

7.4 Report System

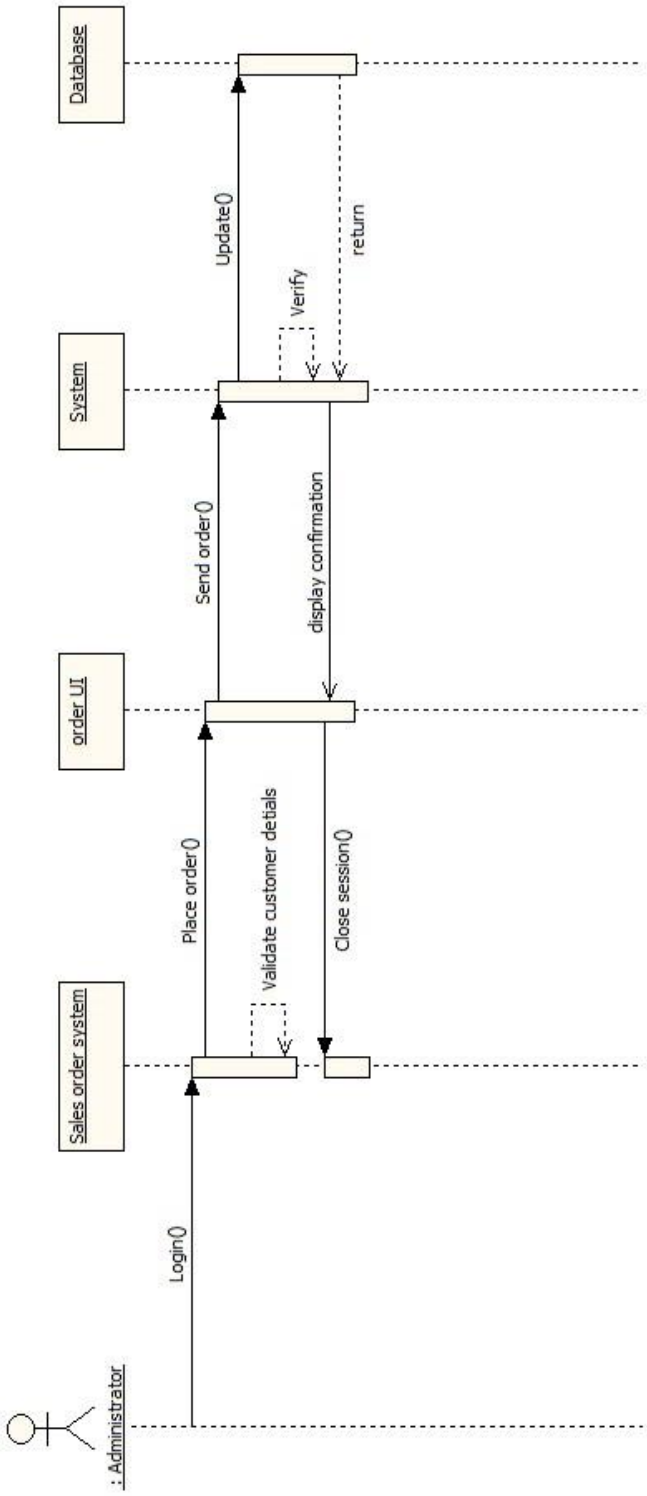


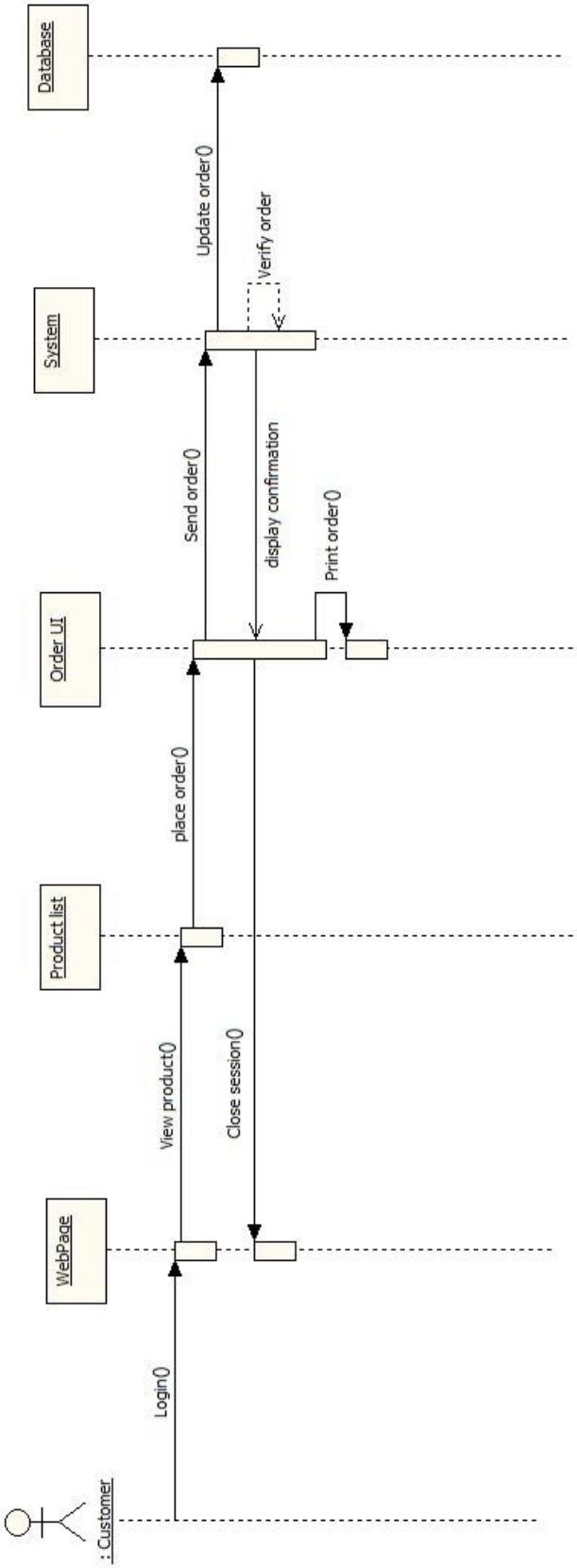
7.5 Purchase order system

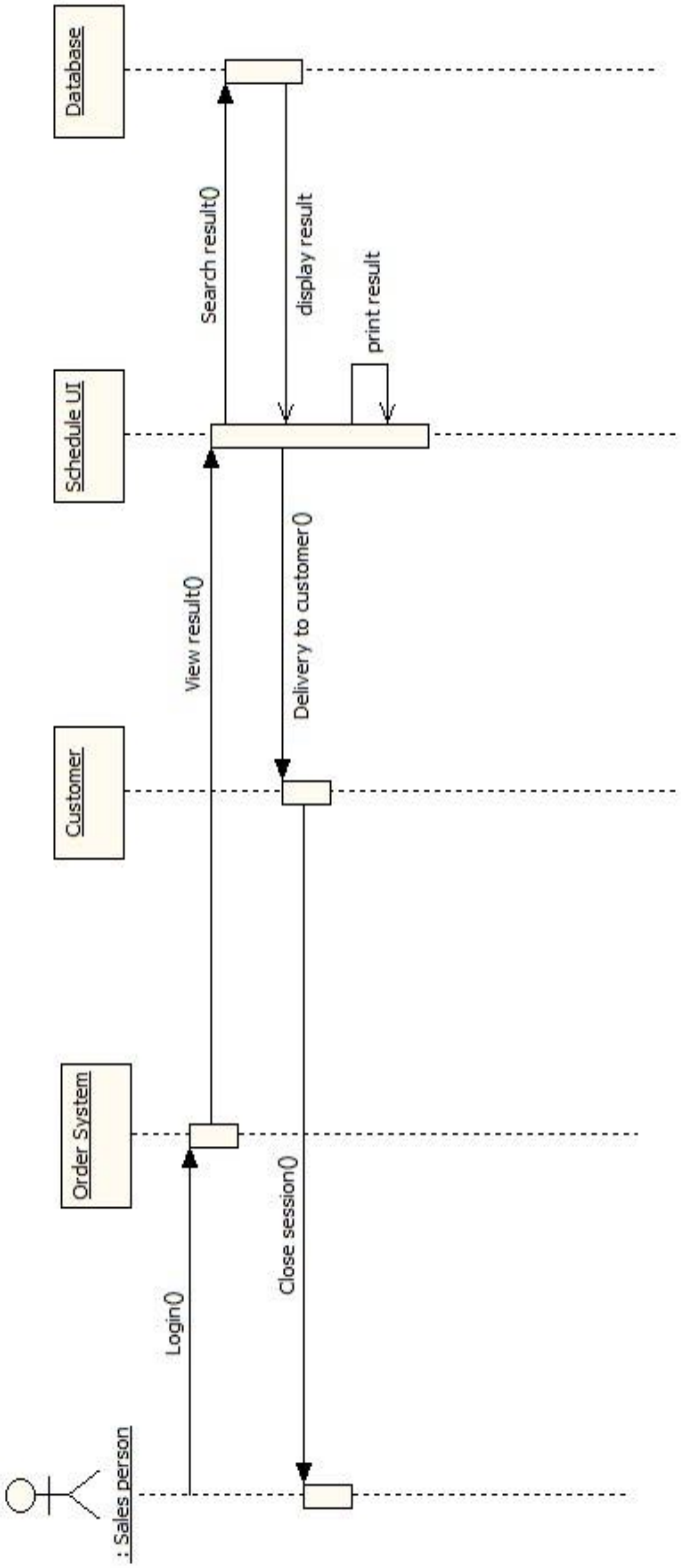



Database
Administrator
company
confirm order
Order registry
Inventory management System
: Supplier
Update status()
Update DO status()
Verify order
Delivey product()
verify order
Prepare order()
process order()
return
View pending order()
return
View confirm order()
Make payment()
Login()
Verify payment

7.6 Sales order system




Database
System
Order UI
Product list
WebPage
: Customer
Update order()
Verify order
Send order()
display confirmation
Print order()
place order()
View product()
Close session()
Login()


Database
Schedule UI
Customer
Order System
: Sales person
Search result()
display result
print result
View result()
Delivery to customer()
Login()
Close session()