INVENTORY CONTROL SYSTEM

correctness of the diagrams depends on the problem statement she gives so copy mindfully!

Termwork 1:

Functional Requirements:

Item Management: The system should allow for the creation, editing, and deletion of item information, such as product names, descriptions, prices, and quantities.
Inventory Tracking: The system should allow for the tracking of inventory levels, including real-time updates on stock availability and alerts for low inventory levels.
Order Management: The system should allow for the management of orders, including the processing of orders, tracking of order statuses, and updating of inventory levels as orders are fulfilled.
Reporting and Analytics: The system should provide reporting and analytics features to help managers measure inventory levels, monitor stock levels, and forecast future inventory needs.
Purchase Order Management: The system should allow for the creation, tracking, and management of purchase orders to help maintain adequate stock levels.
Integration with Other Systems: The system should be able to integrate with other systems, such as accounting or e-commerce systems, to streamline inventory and order management.

Non-Functional Requirements:

Performance: The system should be fast and responsive, with minimal latency when processing data or communicating with users.
Scalability: The system should be able to scale to accommodate large volumes of data and users as the company grows.
Security: The system should be secure, with features such as data encryption, secure authentication, and role-based access control.
Availability: The system should be available 24/7 with minimal downtime or maintenance windows.
Usability: The system should be user-friendly and intuitive, with a clear and consistent user interface that is easy to navigate and use.
Reliability: The system should be reliable, with minimal downtime or system errors, and the ability to recover quickly from any system failures.

Ambiguities:

->The system may not provide clear guidelines on how to handle inventory discrepancies or errors.
->The system may not provide clear guidelines on how to handle returns or exchanges of products.
->The system may not provide clear guidelines on how to handle inventory transfers between different locations or warehouses.
->The system may not provide clear guidelines on how to handle inventory management for products that are temporarily out of stock.

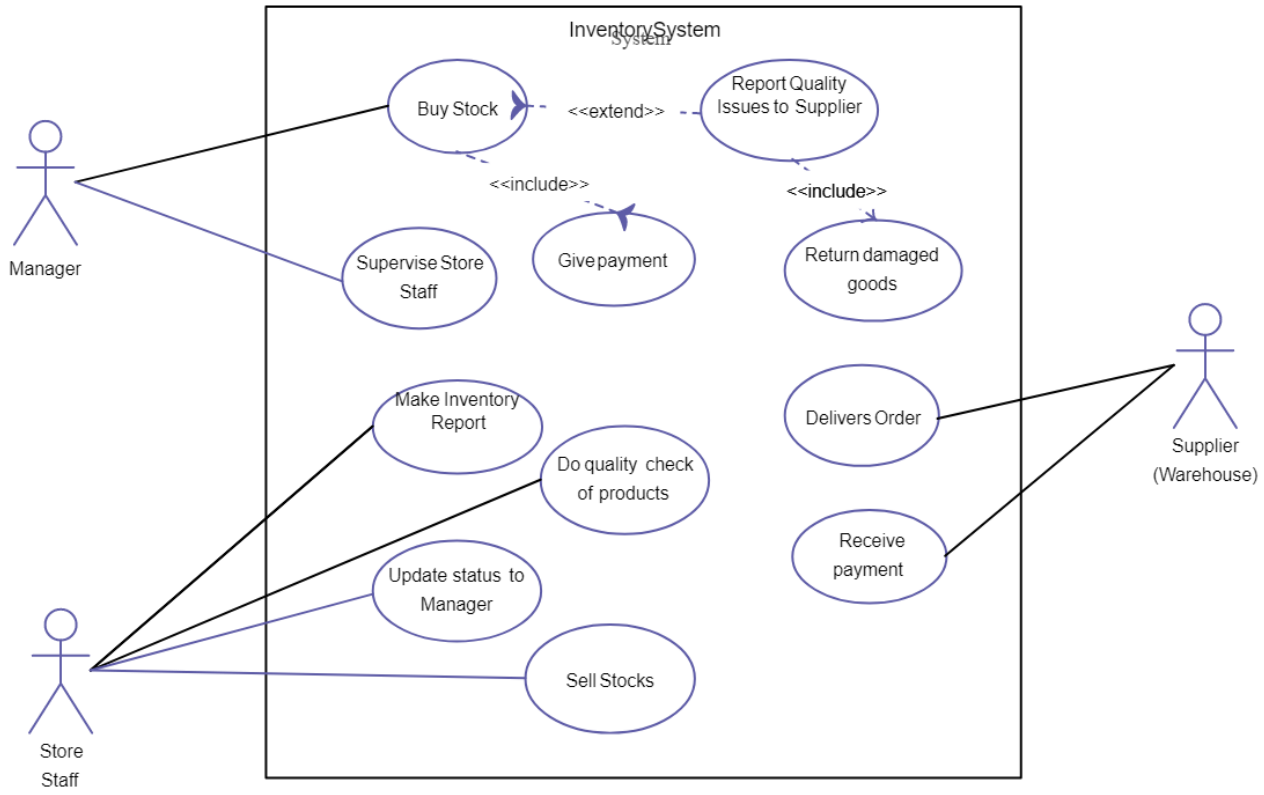
Inconsistencies:

->The system may have inconsistencies in the way it handles inventory data across different stages of the supply chain.
->The system may have inconsistencies in the way it handles product information, leading to inaccurate or incomplete data.
->The system may have inconsistencies in the way it handles order processing, leading to fulfilment errors or delayed orders.
->The system may have inconsistencies in the way it handles purchase orders, leading to discrepancies in inventory levels or order fulfilment.

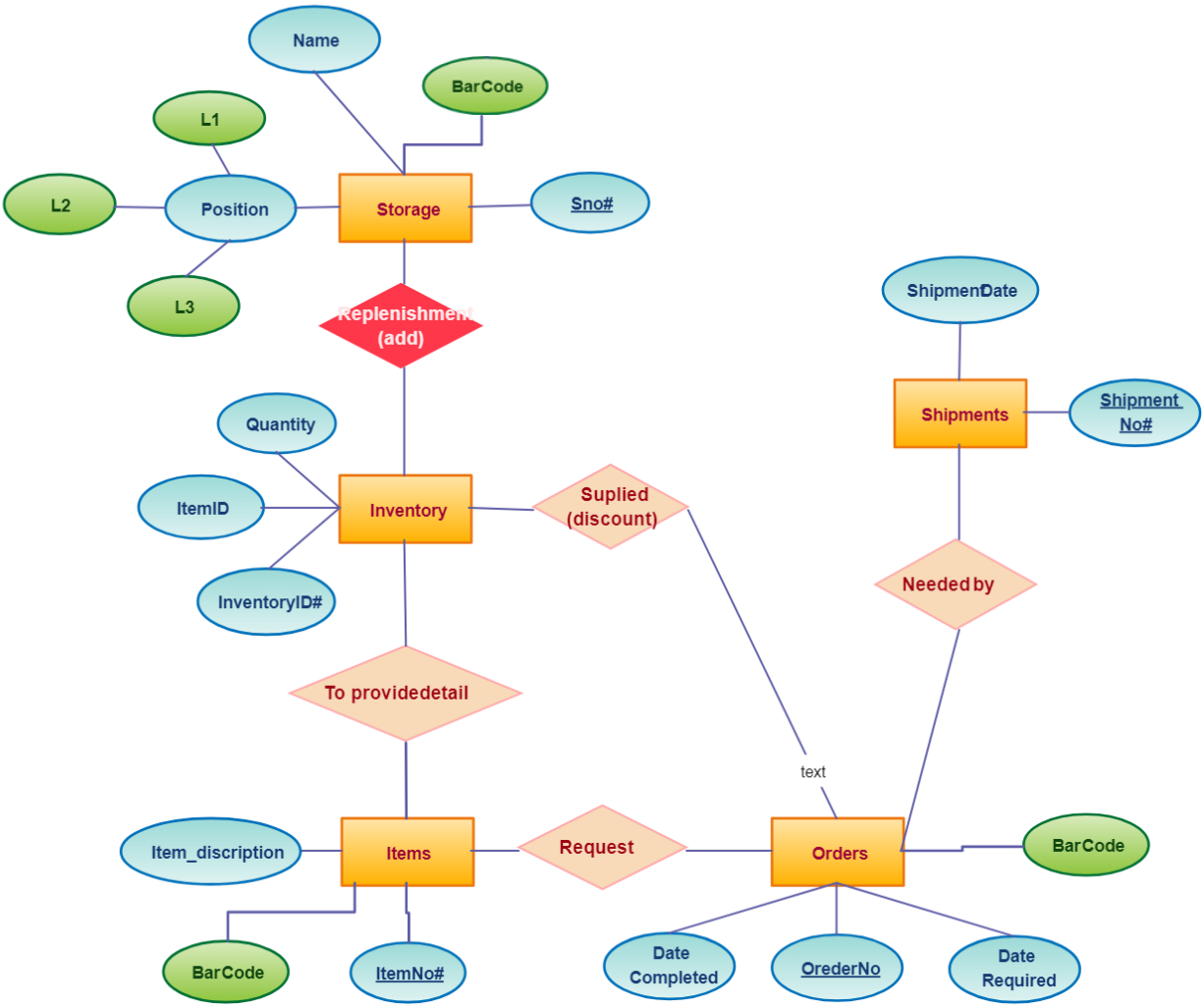
Incompleteness:

->Inaccurate inventory counts: The inventory control system may not accurately count the number of items in stock, leading to incorrect information about available inventory.
->Inadequate tracking of inventory movements: The system may not be able to accurately track inventory movements, such as items being sold or transferred between locations, leading to errors in inventory levels.
->Lack of integration with other systems: The inventory control system may not be integrated with other business systems, such as the point of sale system, making it difficult to accurately track inventory levels.

Termwork 2:


InventorySystem
System
Buy Stock
<<extend>>
Report Quality Issues to Supplier
<<include>>
<<include>>
Manager
Supervise Store Staff
Give payment
Return damaged goods
Make Inventory Report
Delivers Order
Supplier (Warehouse)
Do quality check of products
Receive payment
Update status to Manager
Sell Stocks
Store Staff

Termwork 3:


Name
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L2
Position
Storage
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L3
Replenishment
(add)
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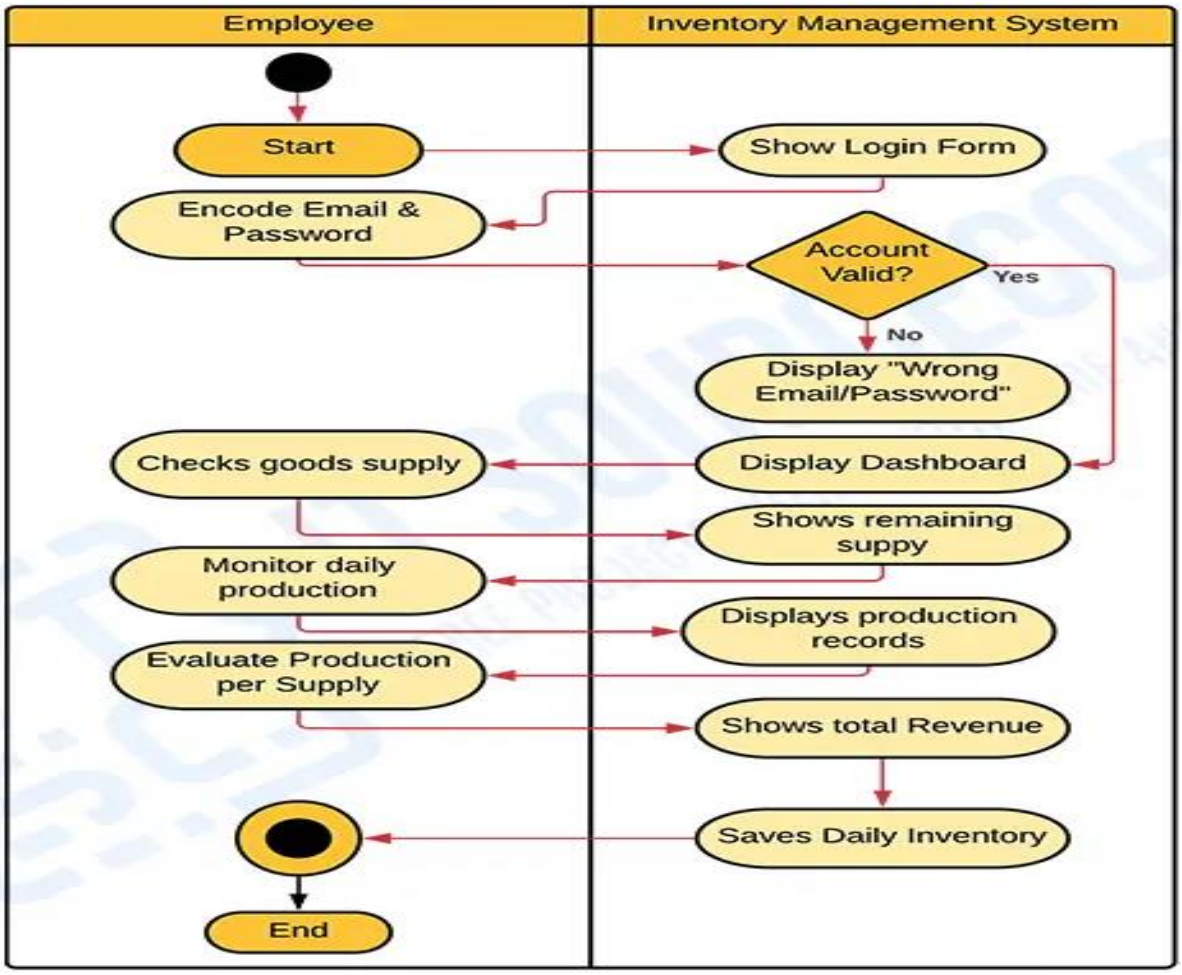
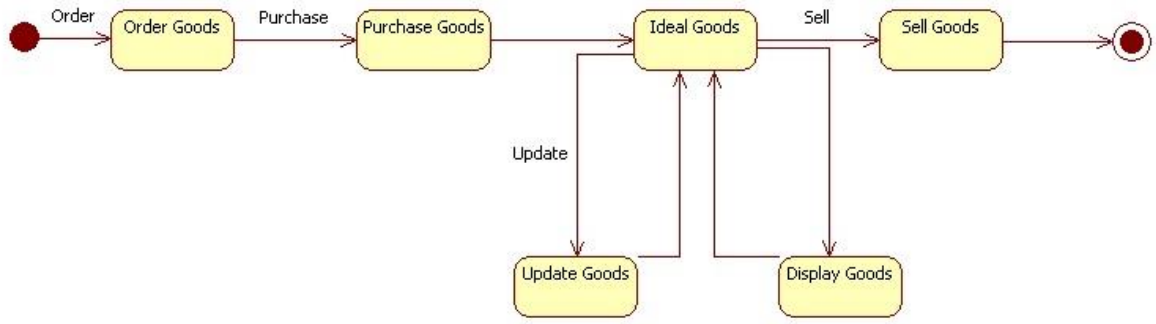
Termwork 5:

activity diagram:

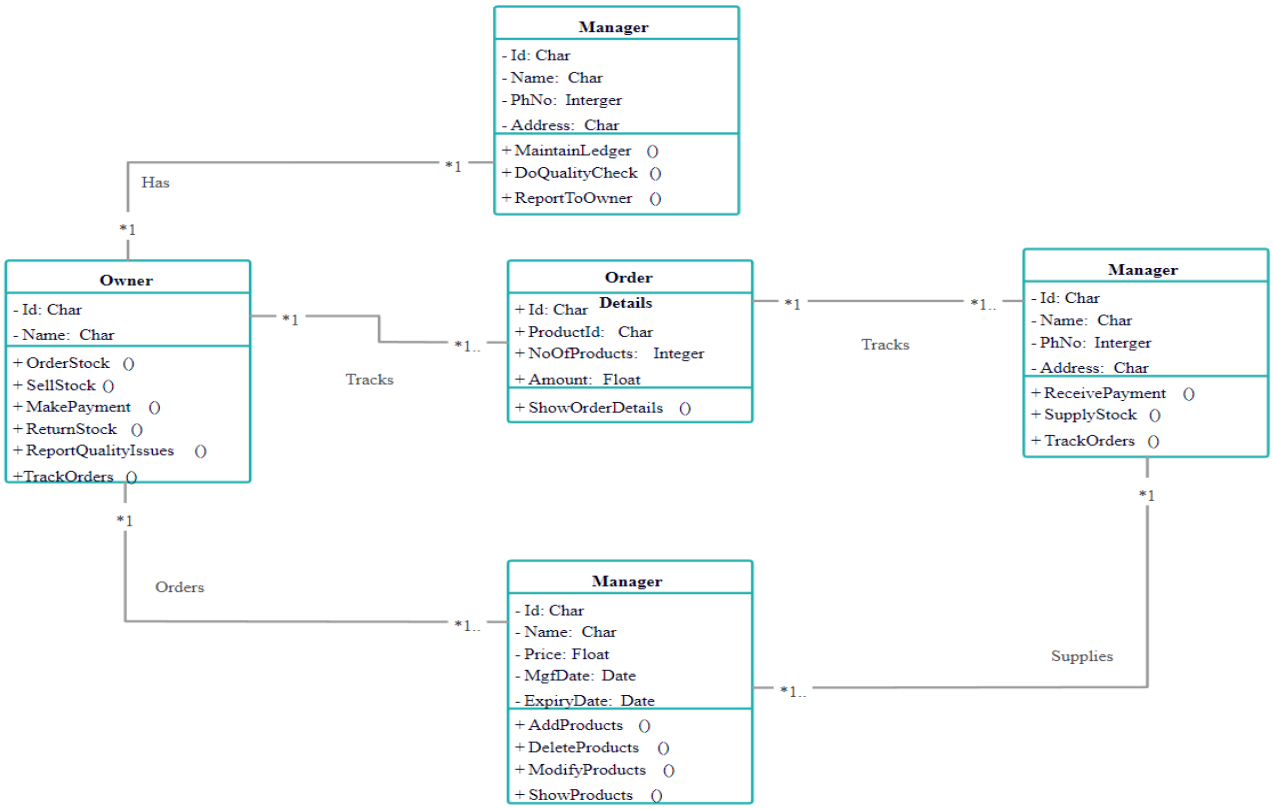


state diagram:

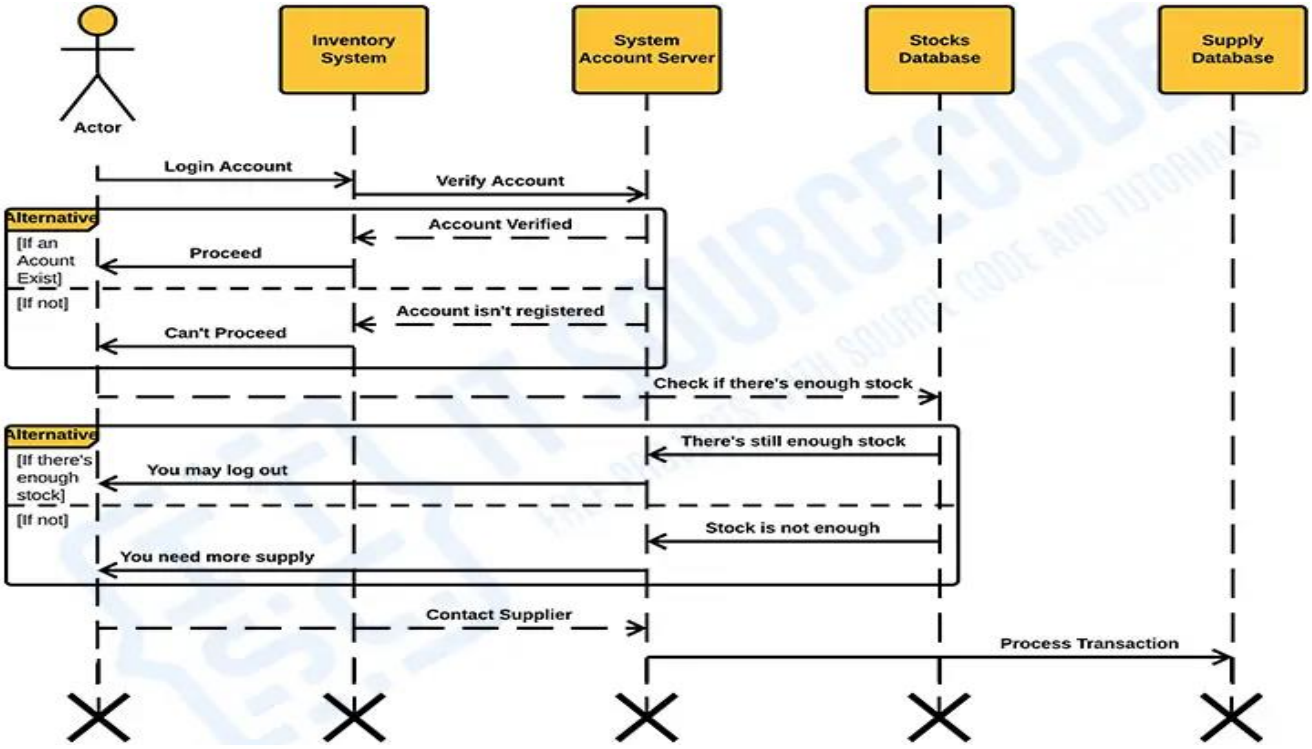


Termwork 6:

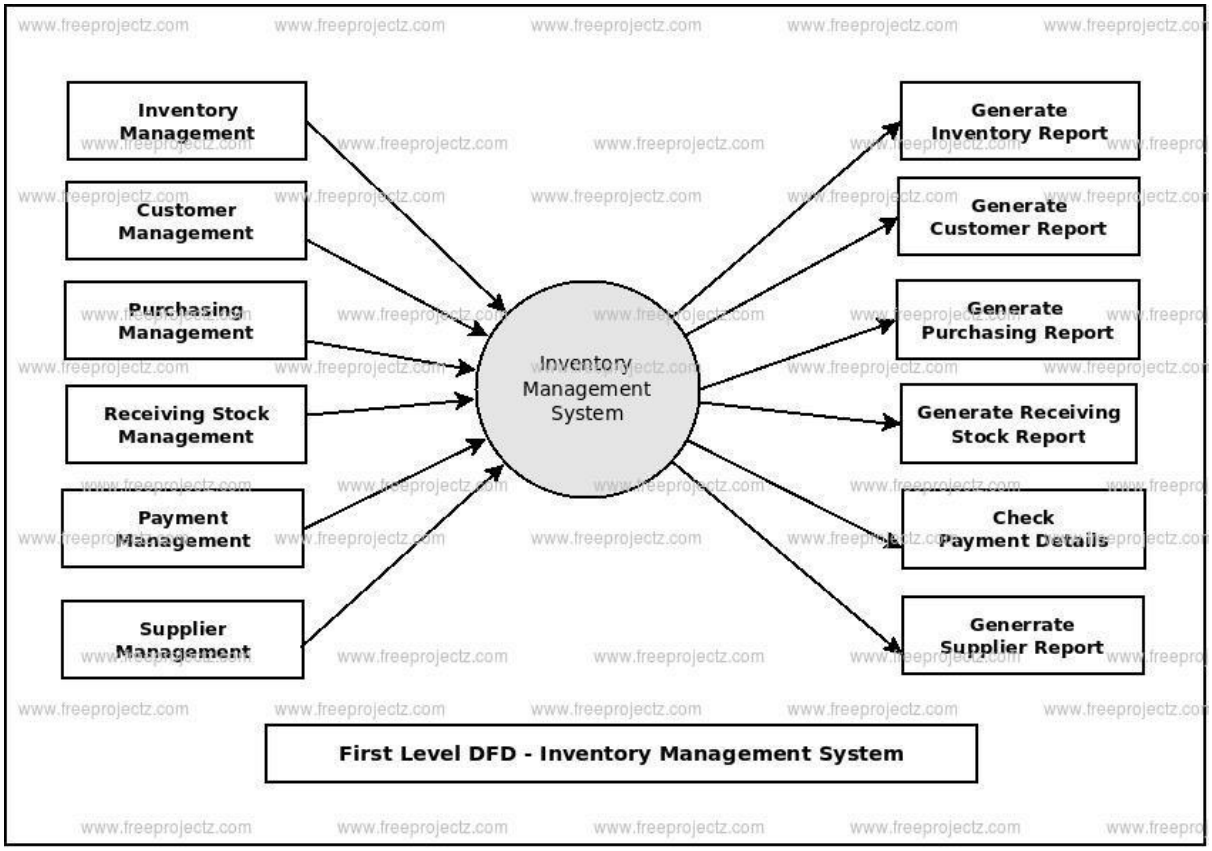
class diagram:



sequence diagram:



Termwork 7:


Inventory Management
Customer Management
Purchasing Management
Receiving Stock Management
Payment Management
Supplier Management
Inventory Management System
Generate Inventory Report
Generate Customer Report
Generate Purchasing Report
Generate Receiving Stock Report
Check Payment Details
Generrate Supplier Report
First Level DFD - Inventory Management System