Kelompok 12:
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1. UI : https://www.figma.com/file/OEZRmKYi4IozjJhRkLLwsv/Untitled?type=design&node-id=0%3A1&t=OiaLFnsZqWnT7aio-1

2. The MallMart Layaway System requires the following interfaces:

   a. Customer Interface: This interface is needed to capture the customer's personal information such as name, address, and telephone number. The customer uses this interface to make payments, check on the status of their layaway, and pick up their merchandise.

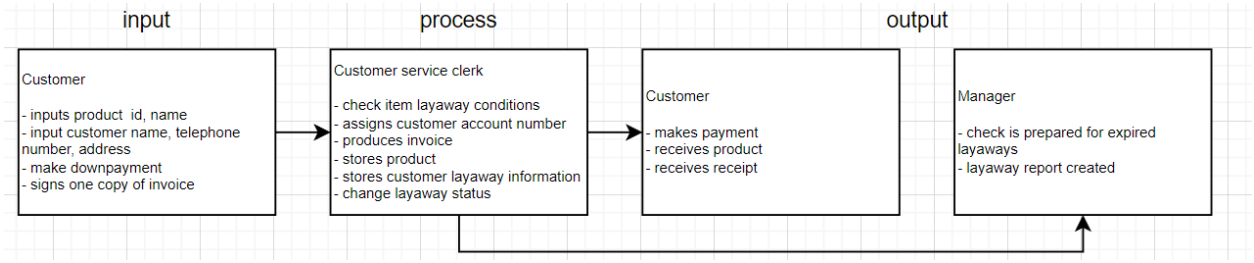
   b. Clerk Interface: This interface is needed to enter customer information, record layaway details, and record payments. The clerk also uses this interface to check whether a layaway payment has been completed and to change the status of the layaway record.

   c. Cash Register Interface: This interface is used to process payments made by customers.

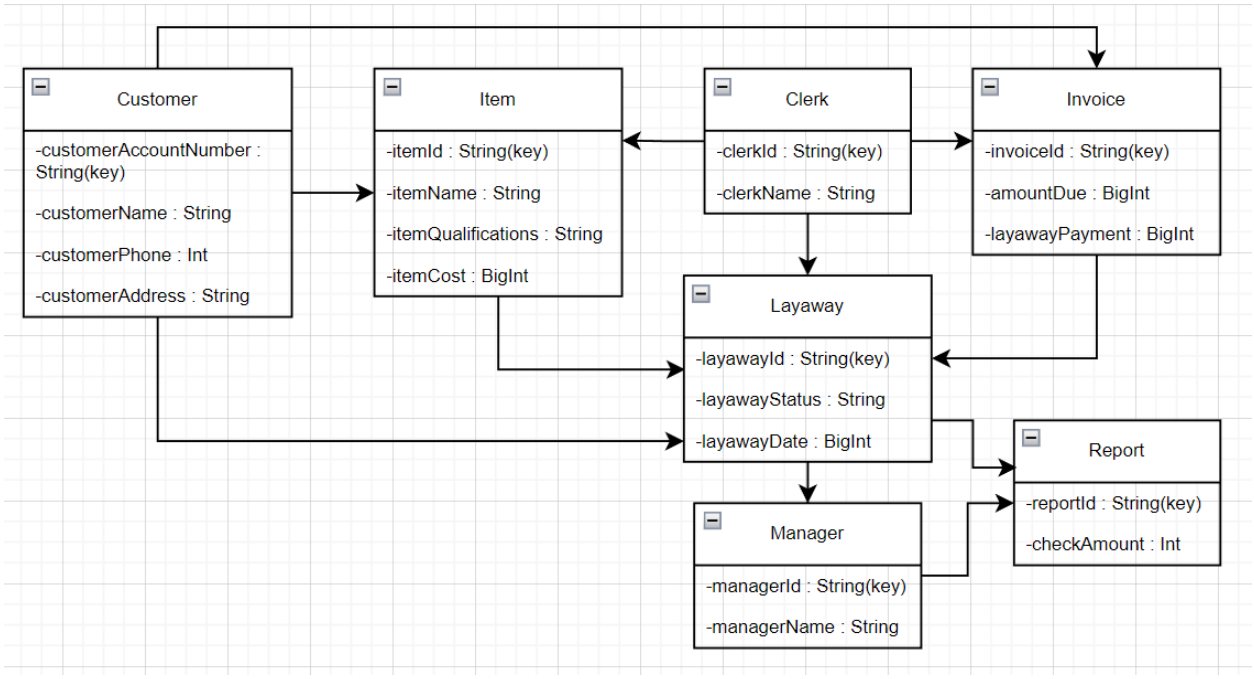
   d. Inventory Interface: This interface is used to record the quantity of items on hand and to reduce the quantity when an item is sold.

   e. Manager Interface: This interface is used to prepare reports of expired layaways and to prepare refund checks. The manager uses this interface to record information about the refund check.

3. System Output



4. First Cut Design Diagram



5. CRC

1. Customer

Customer	
Create Customer	Layaway
Save Customer	Invoice
	Item

customerAccountNumber
customerName
customerPhone
customerAddress

2. Item

Item

Create Item	Customer
Save Item	Layaway
Get Data Customer	Clerk
Get Data Clerk	

itemId
itemName
itemQualifications
itemCosts

3. Clerk

Clerk	
Create Clerk	Layaway
Save Clerk	Invoice
	Item

clerkId
clerkName

4. Invoice

Invoice	
Create Invoice	Layaway
Save Invoice	Customer
Get Data Customer	Item
Get Data Clerk	

invoiceId
amountDue
layawayPayment
amountDue

5. Layaway

Layaway	
Create Layaway	Customer
Save Layaway	Invoice
Get Data Customer	Item
Get Data Invoice	
Get Data Item	

layawayId
layawayStatus
layawayPayment

6. Report

Report	
Create Report	Layaway
Save Report	Manager
Get Data Layaway	
Get Data Manager	

reportId

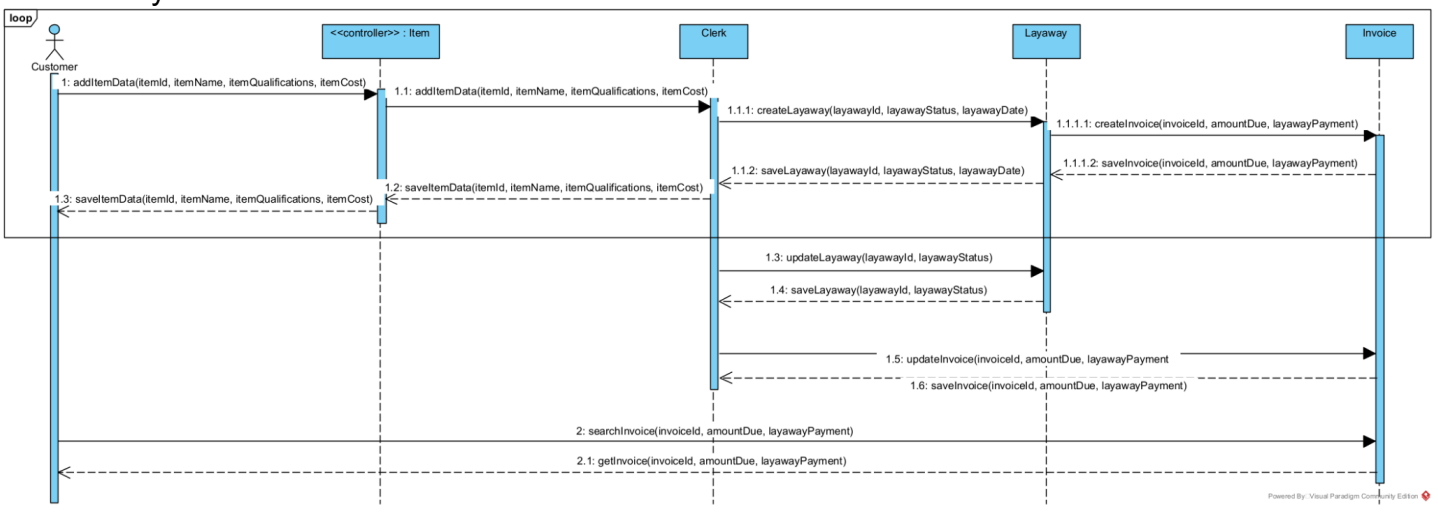
checkAmount

7. Manager

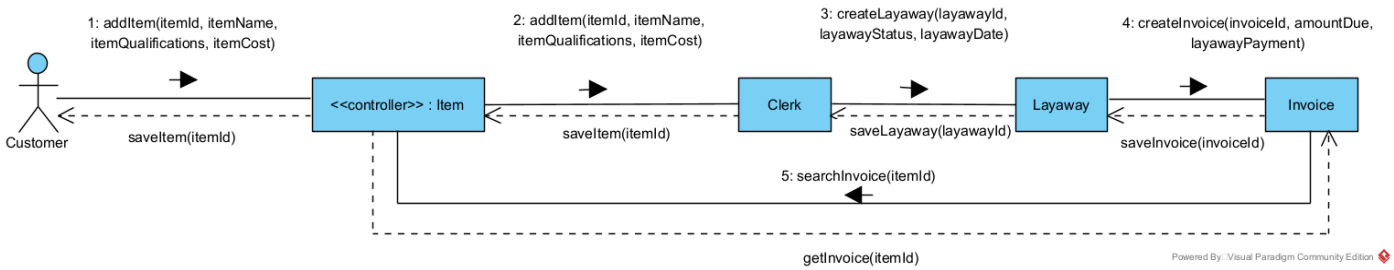
Manager	
Create Manager	Layaway
Save Manager	
Get Data Layaway	

managerId
managerName

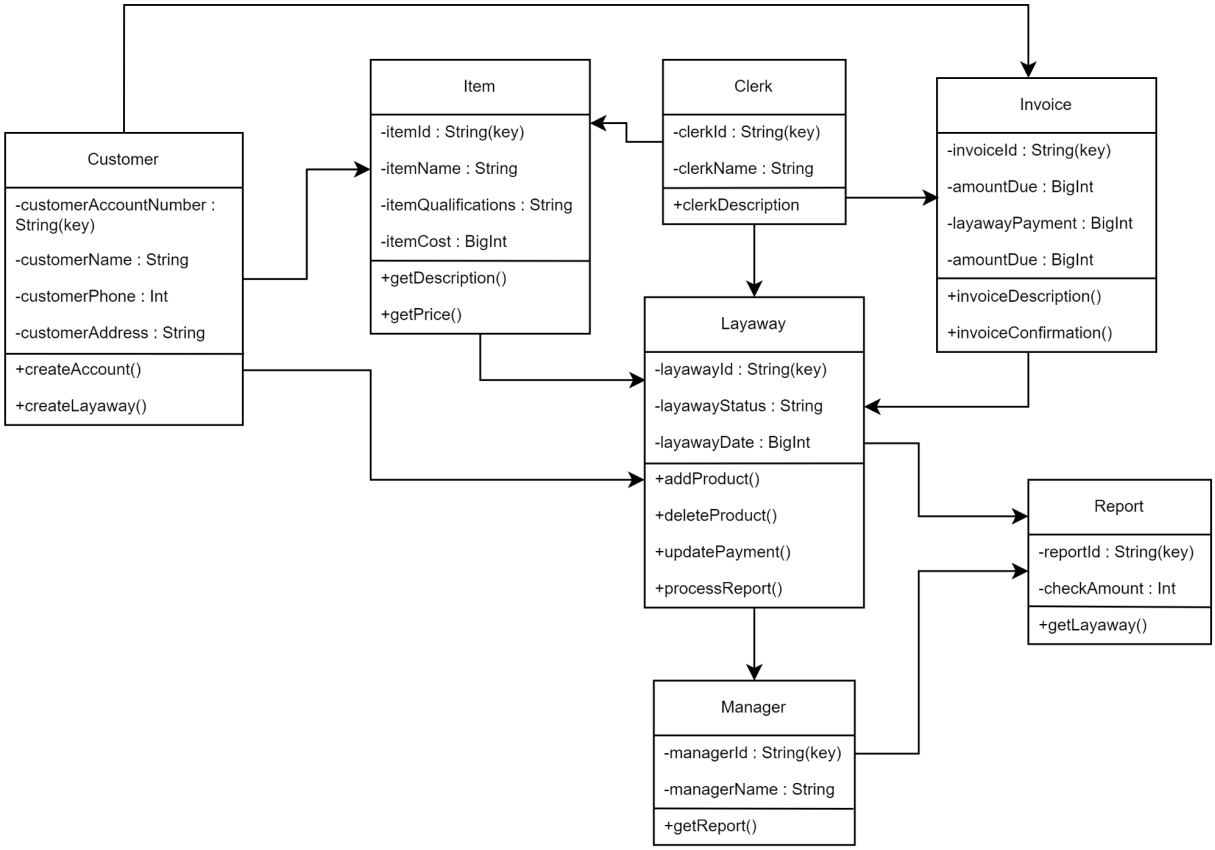
6. Three layers SSD



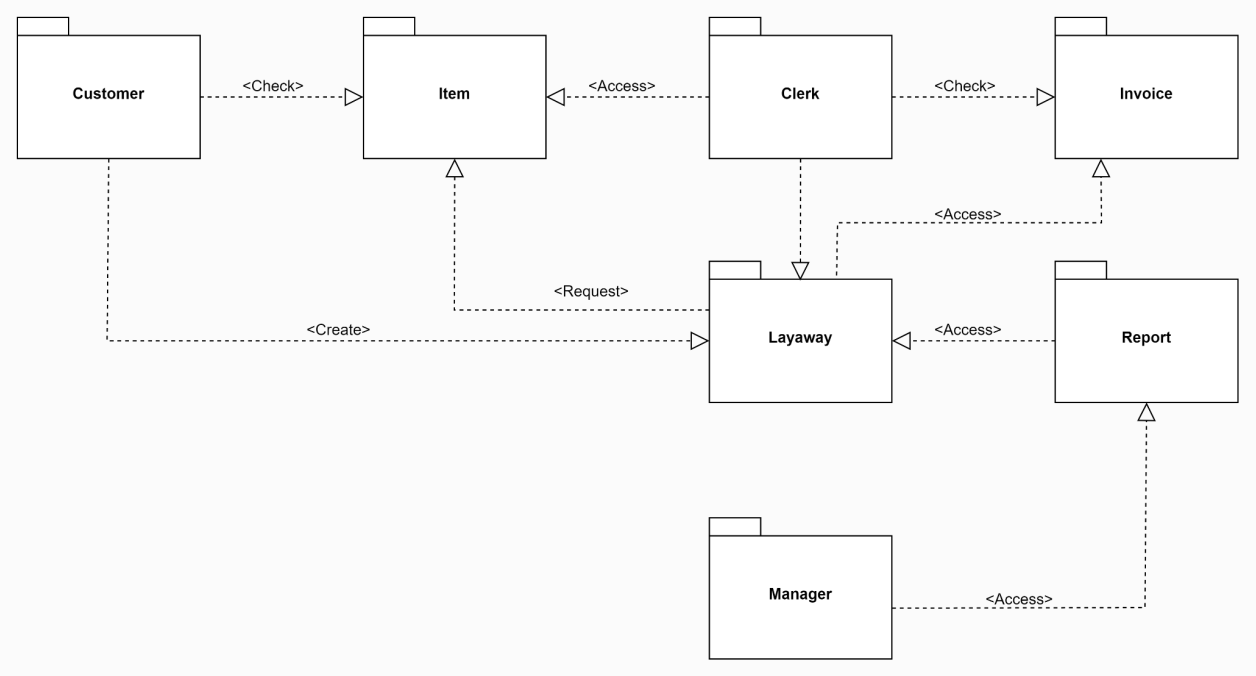
7. Design Communication Diagram



8. Updated Design Class Diagram



9. Package Diagram


Customer
<Check>
Item
<Access>
Clerk
<Check>
Invoice
<Access>
<Request>
<Create>
Layaway
<Access>
Report
Manager
<Access>