Cairo University
Faculty of Computers and Artificial Intelligence
IS Department

Course code: IS332
Course: Analysis and Design of Information Systems
Under supervision: Dr. Iman Helal – Dr. Dina Ezzat
Academic Year: 2022-2023

Project Details

Project number	*13*
Project title	*Mega store corporation*
Corresponding TA\LA	*Dina abbas*
Deliverable	*2*

Team Details

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1. CRUD technique:

Verify use cases using CRUD technique

DATA ENTITY/DOMAIN CLASS	C R U D	VERIFIED USE CASE
manager	Create	Make offers /make deals
	Read/report	Check reports
	Update	Change product price
	Delete	

DATA ENTITY/DOMAIN CLASS	C R U D	VERIFIED USE CASE
supplier	Create	Make deals /provide products
	Read/report	
	Update	
	Delete	

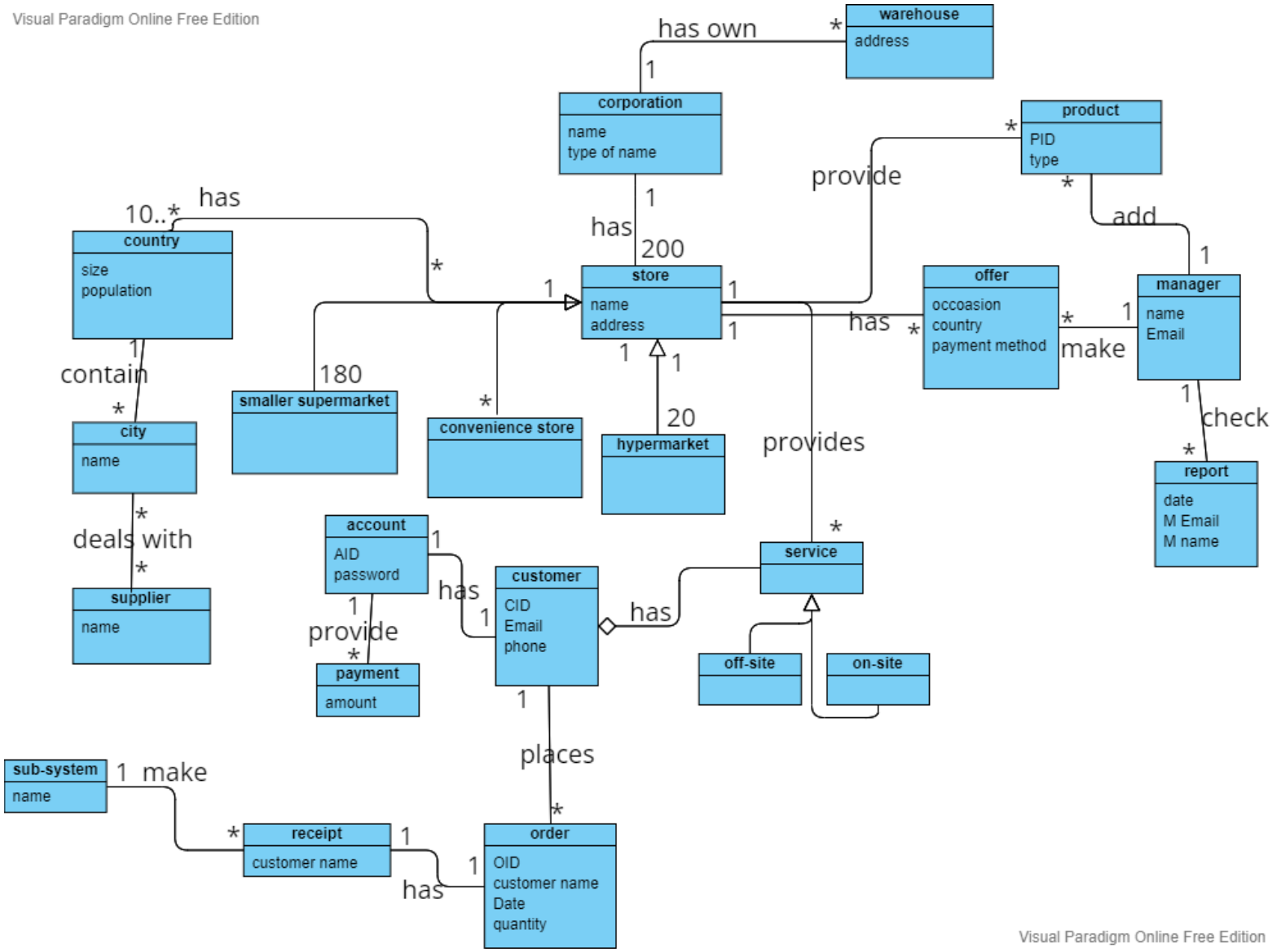
DATA ENTITY/DOMAIN CLASS	C R U D	VERIFIED USE CASE
Sub-system	Create	Make receipt
	Read/report	Check item /check reusable bag
	Update	Change point
	Delete	Sell product

DATA ENTITY/DOMAIN CLASS	C R U D	VERIFIED USE CASE
Customer	Create	Create customer account
	Read/report	Check offers /search and view product /view points
	Update	Update customer account
	Delete	Update customer account (to archive)

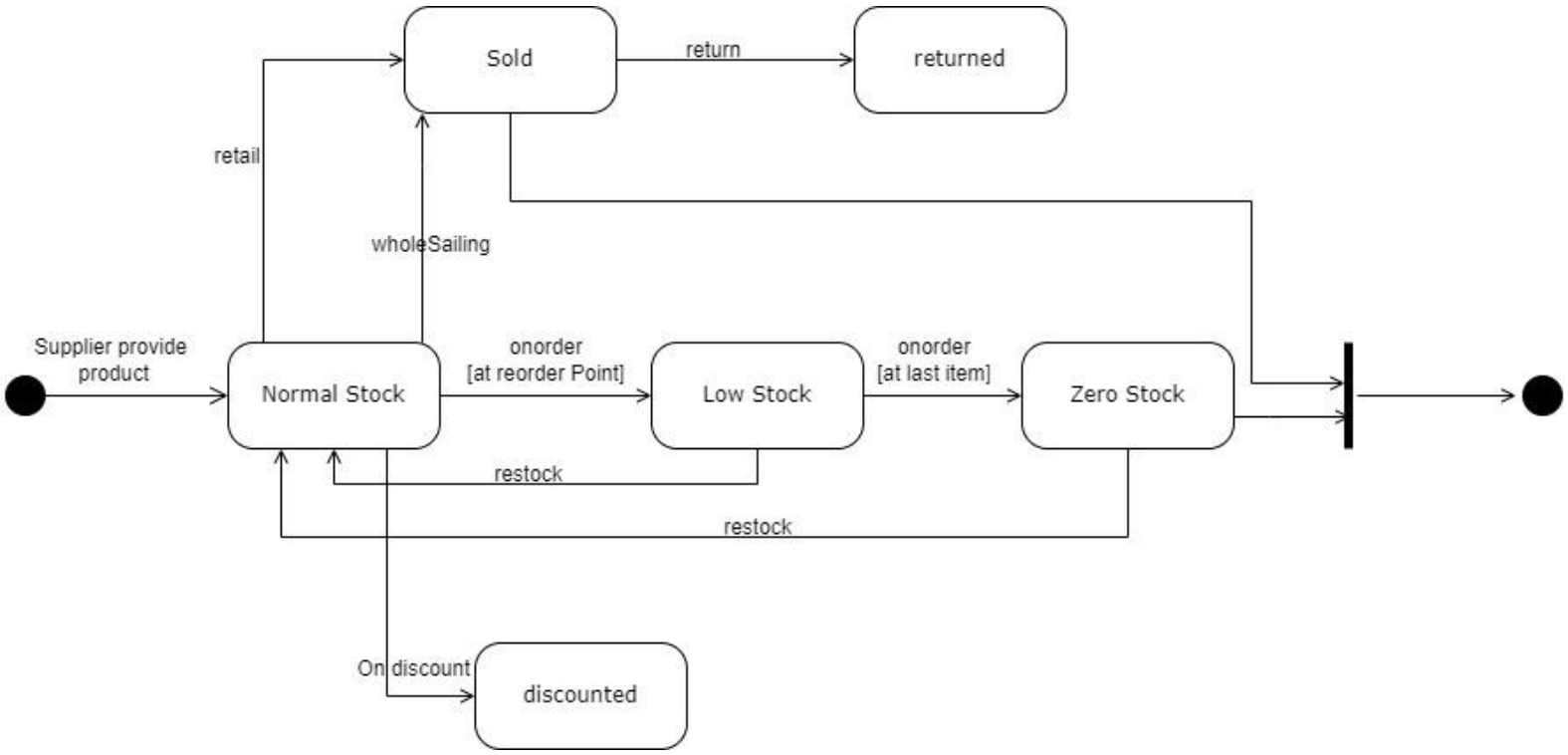
CRUD table showing use cases and corresponding domain classes

Use case vs. entity/domain class	Manager	Supplier	Sub-system	Customer
Change product price	U			
Make deals	C	C		
Provide product		C		
Make offer	C			
Make receipt			C	
Check item			R	
Check reusable bag			R	
Change point			U	
Check offers				R
Search and view product				R
Sell products			D	
View points				R
Check reports	R			

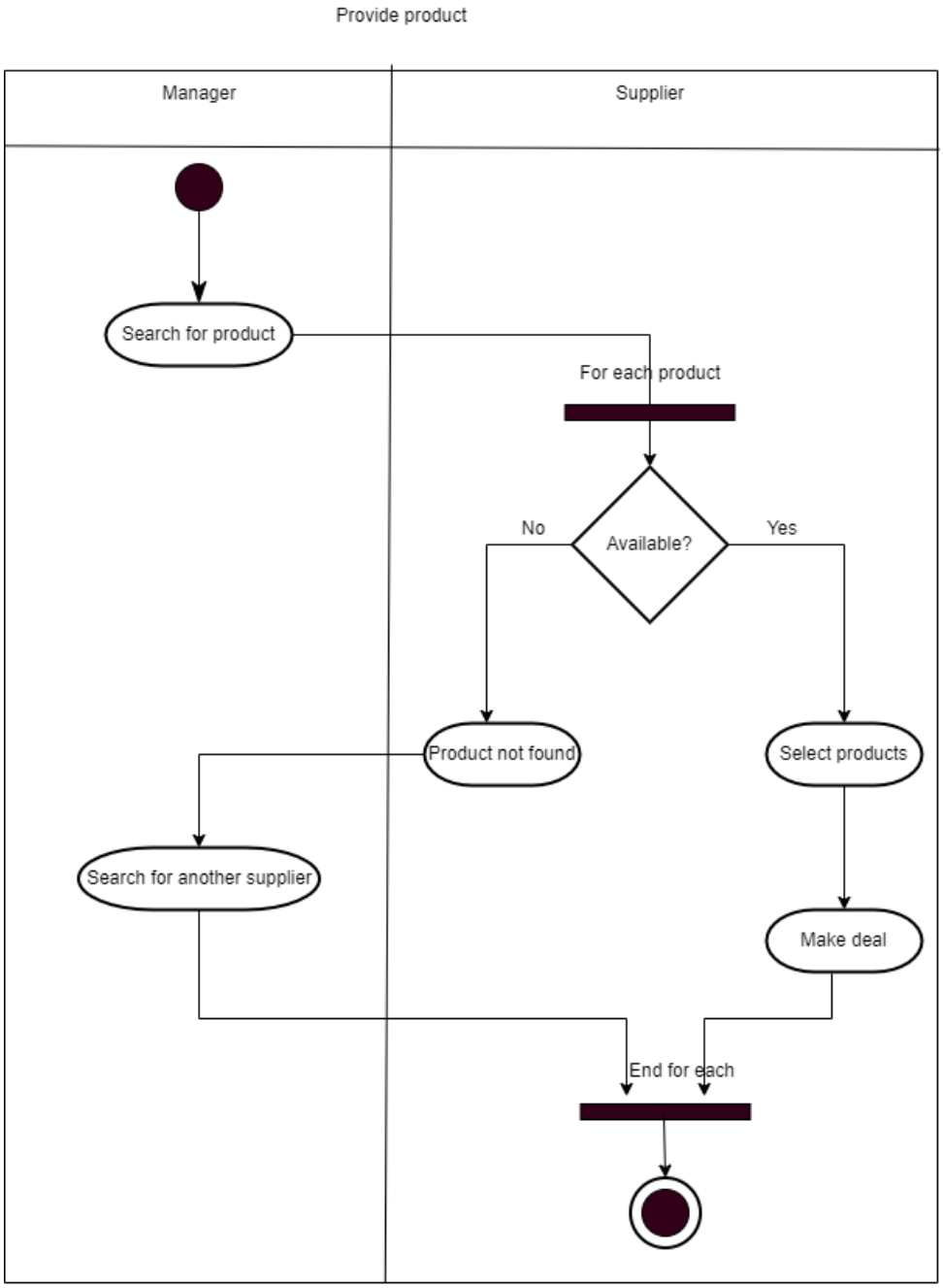
2. Domain Class Model



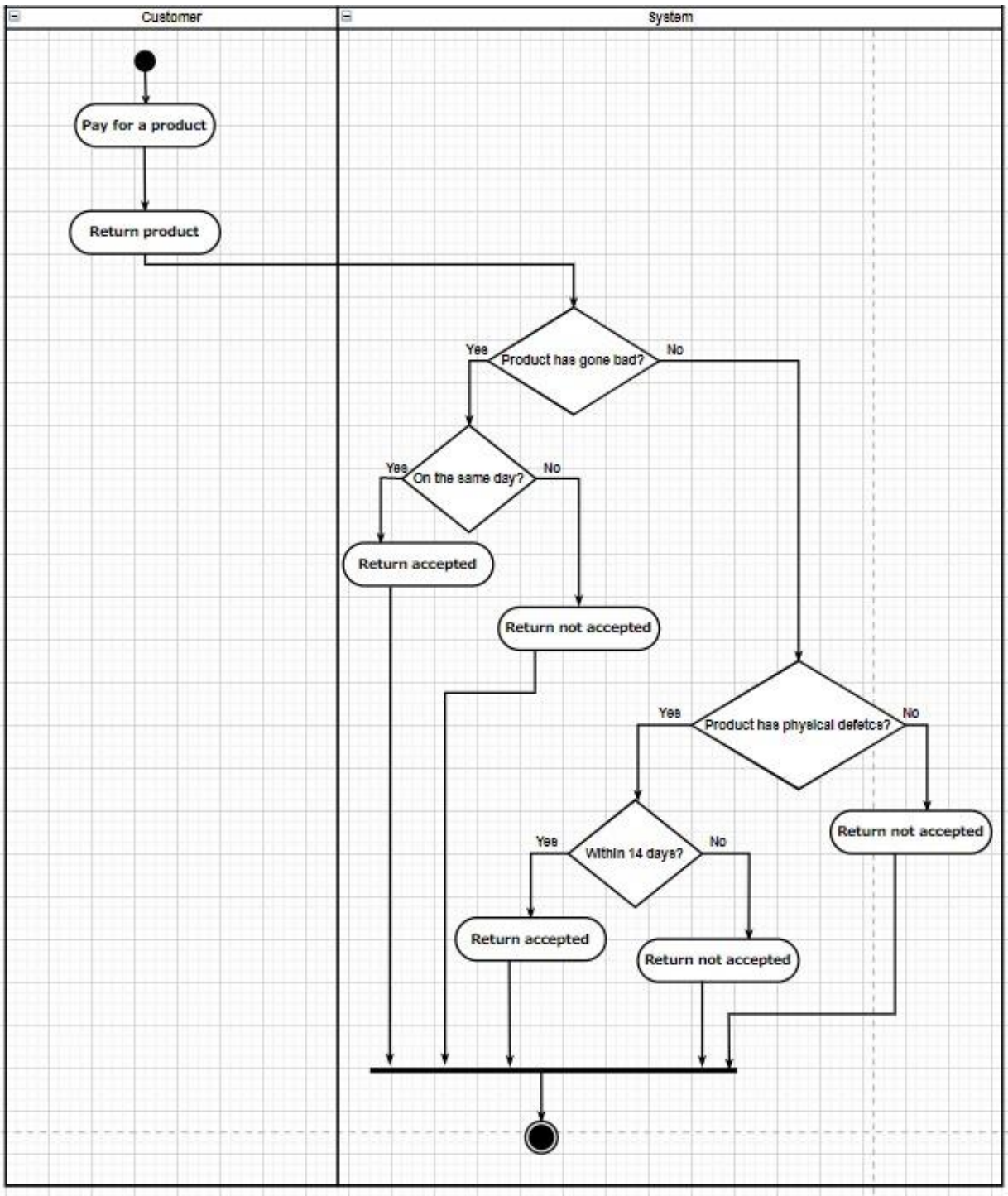
3. State Machine Model



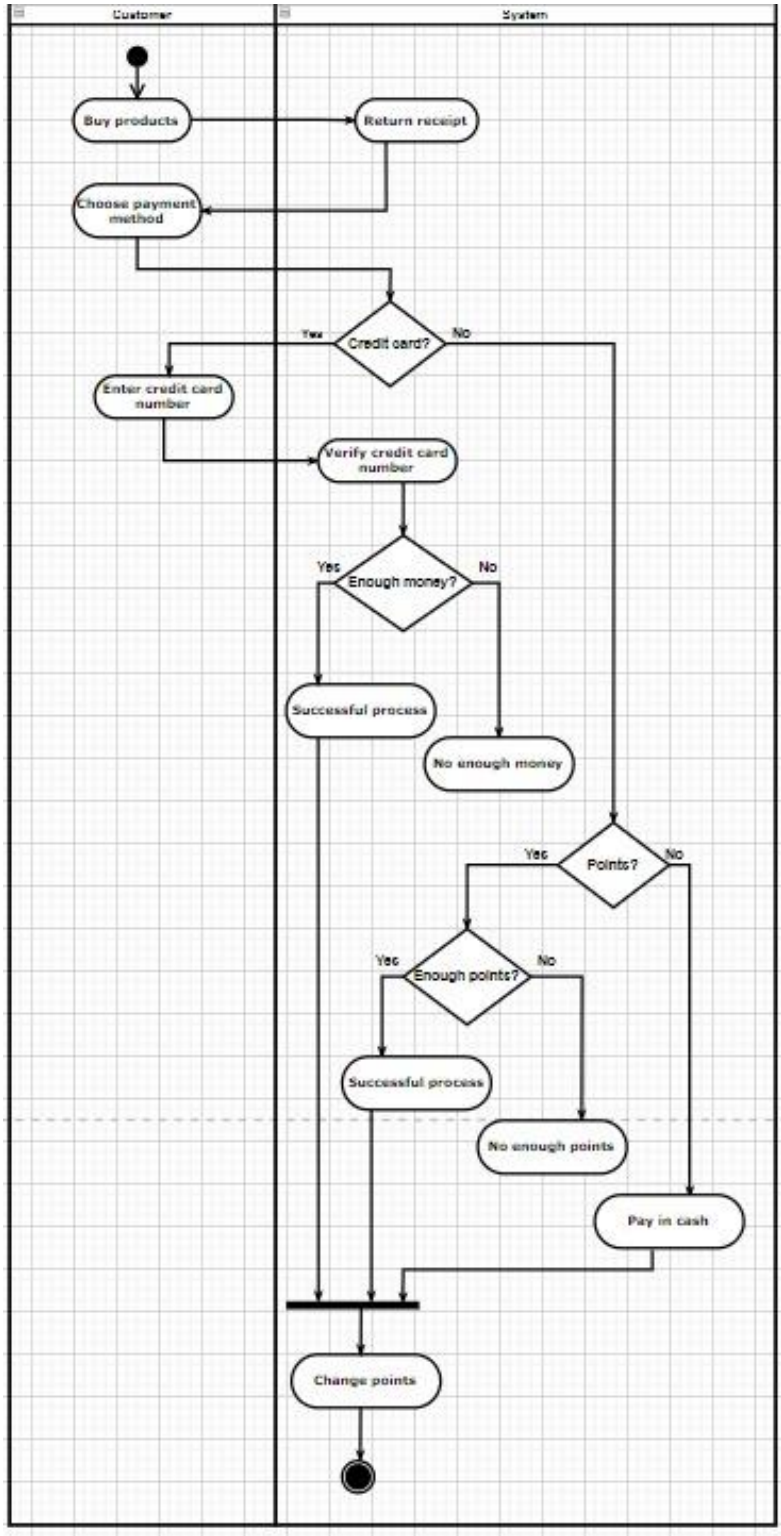
4. Activity Diagrams



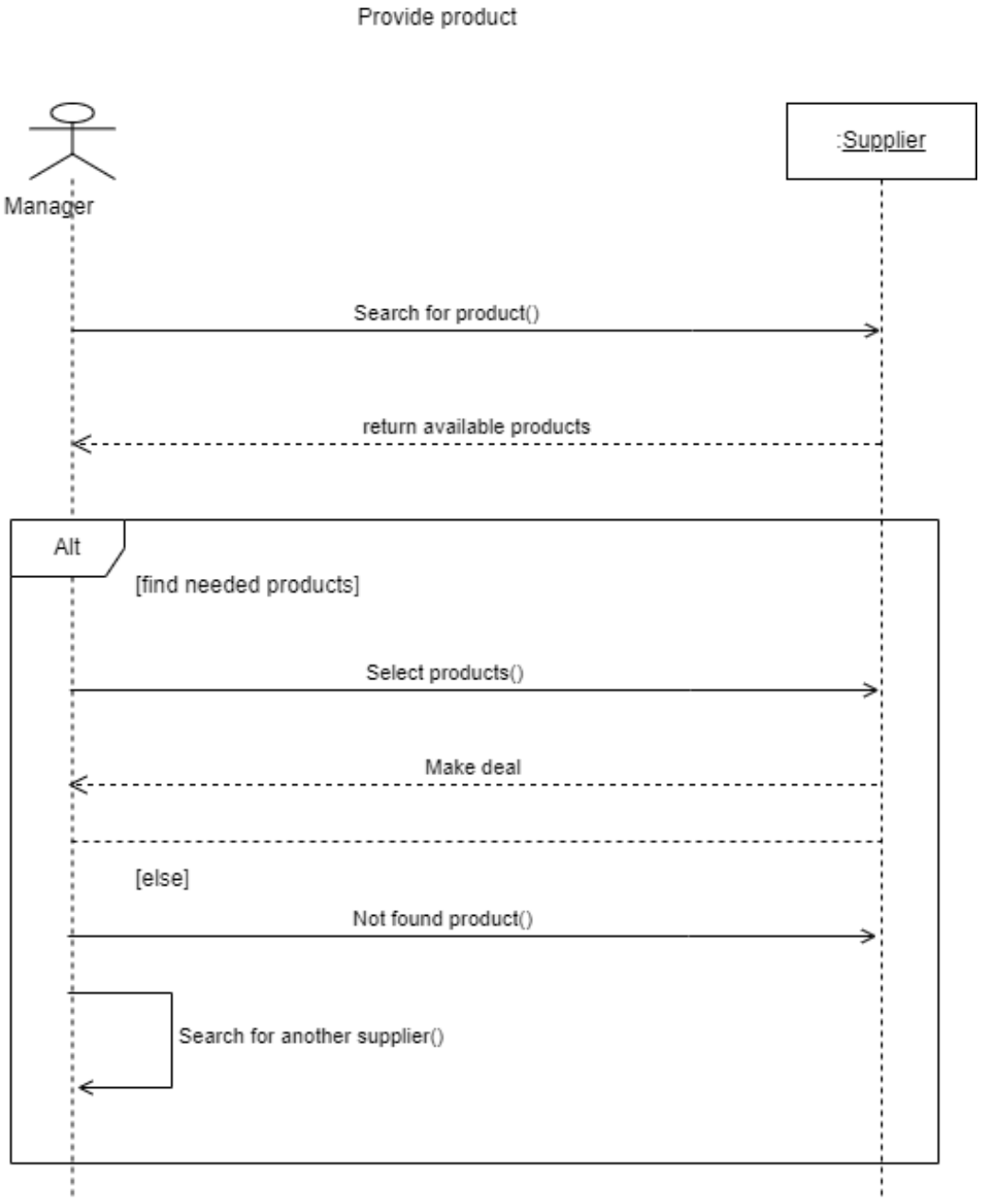
Return product



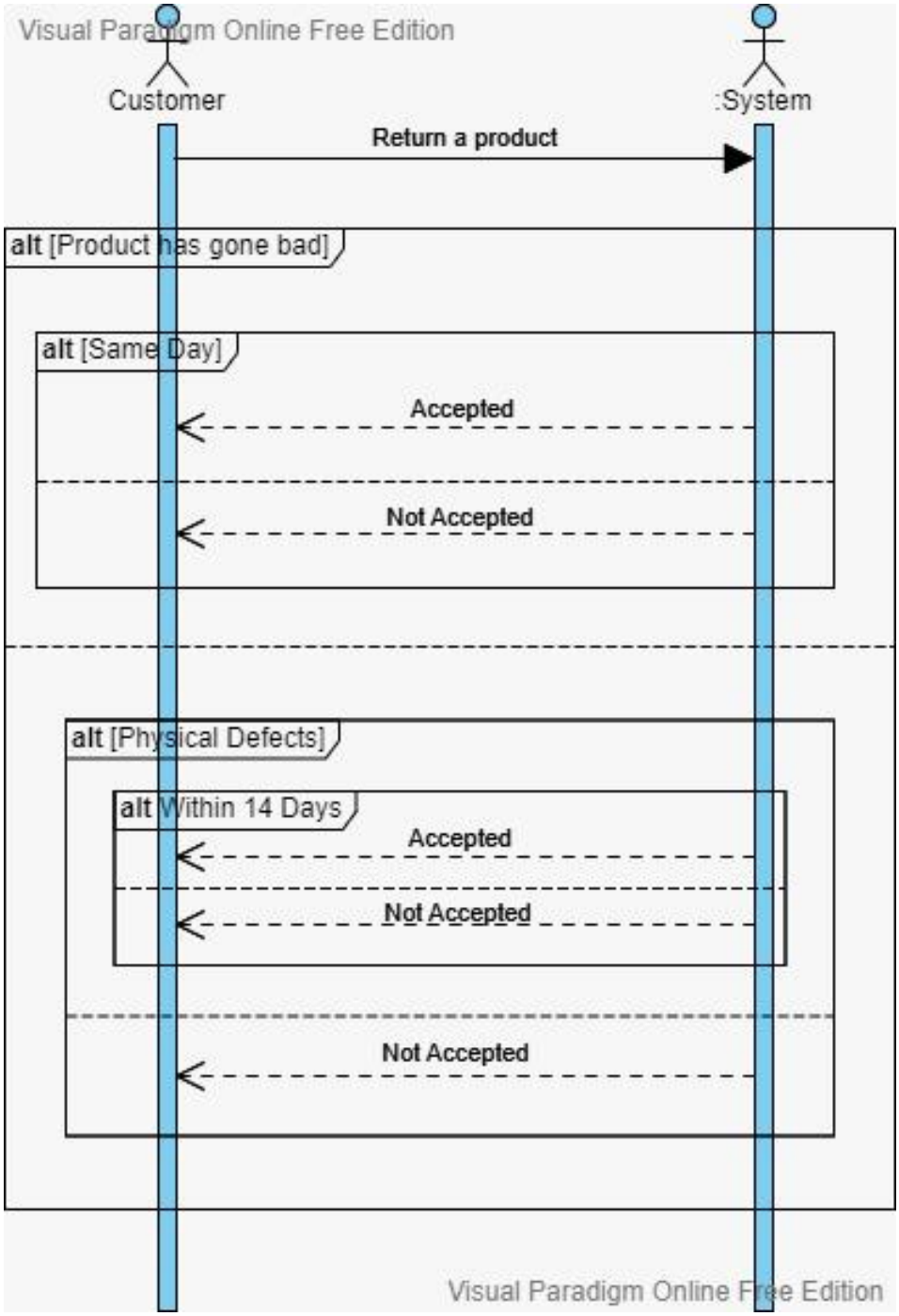
pay

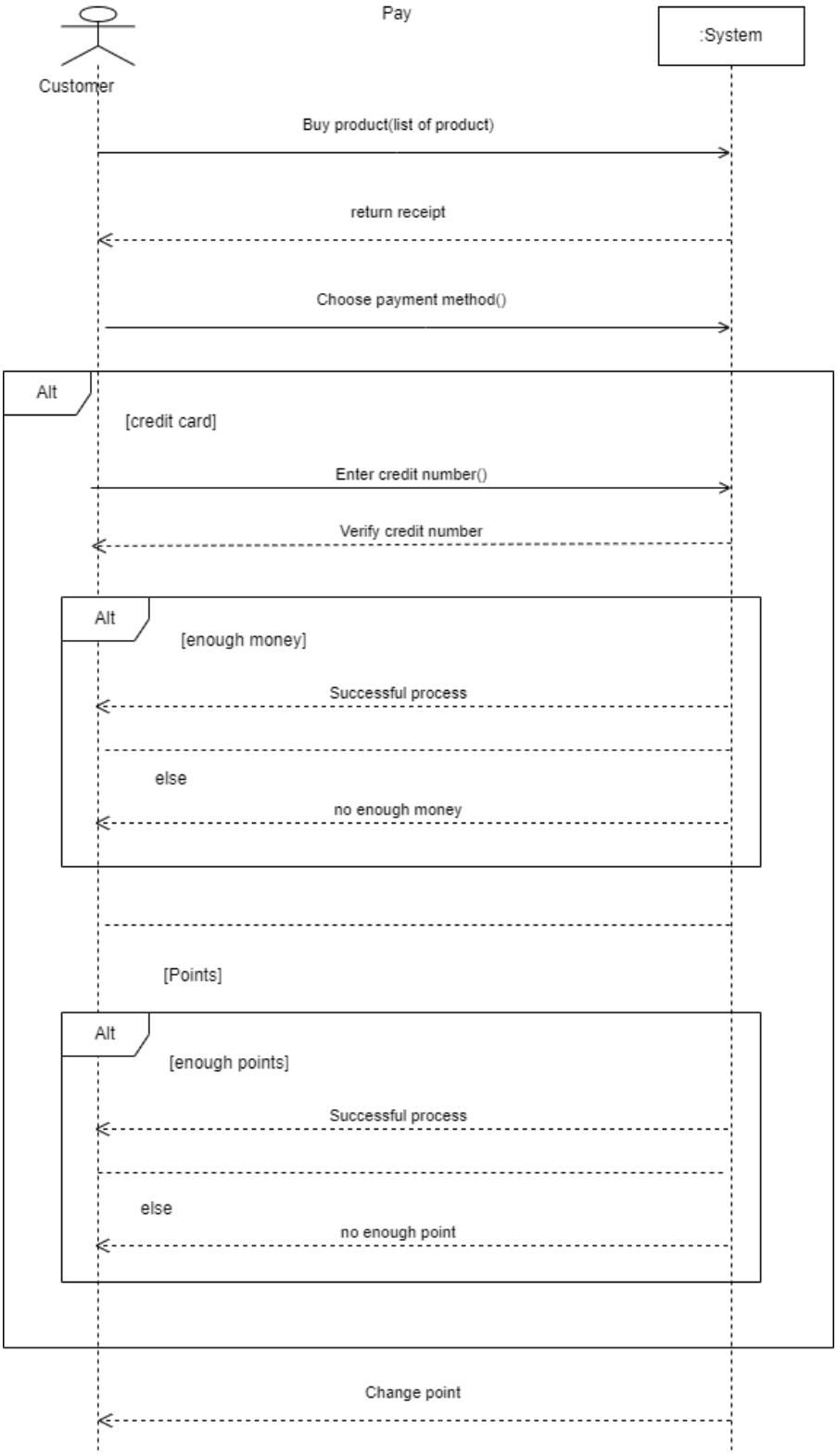

Customer
System
Buy products
Return receipt
Choose payment method
Credit card?
Yes
No
Enter credit card number
Verify credit card number
Enough money?
Yes
No
Successful process
No enough money
Points?
Yes
No
Enough points?
Yes
No
Successful process
No enough points
Pay in cash
Change points

5. System Sequence Diagrams



Return product




Pay
Customer
:System
Buy product(list of product)
return receipt
Choose payment method()
Alt
[credit card]
Enter credit number()
Verify credit number
Alt
[enough money]
Successful process
else
no enough money
[Points]
Alt
[enough points]
Successful process
else
no enough point
Change point

Assumption

Every customer has an account in system

Used tool

Draw.io

Visual paradigm online