

Assignment #1

1. List of actors

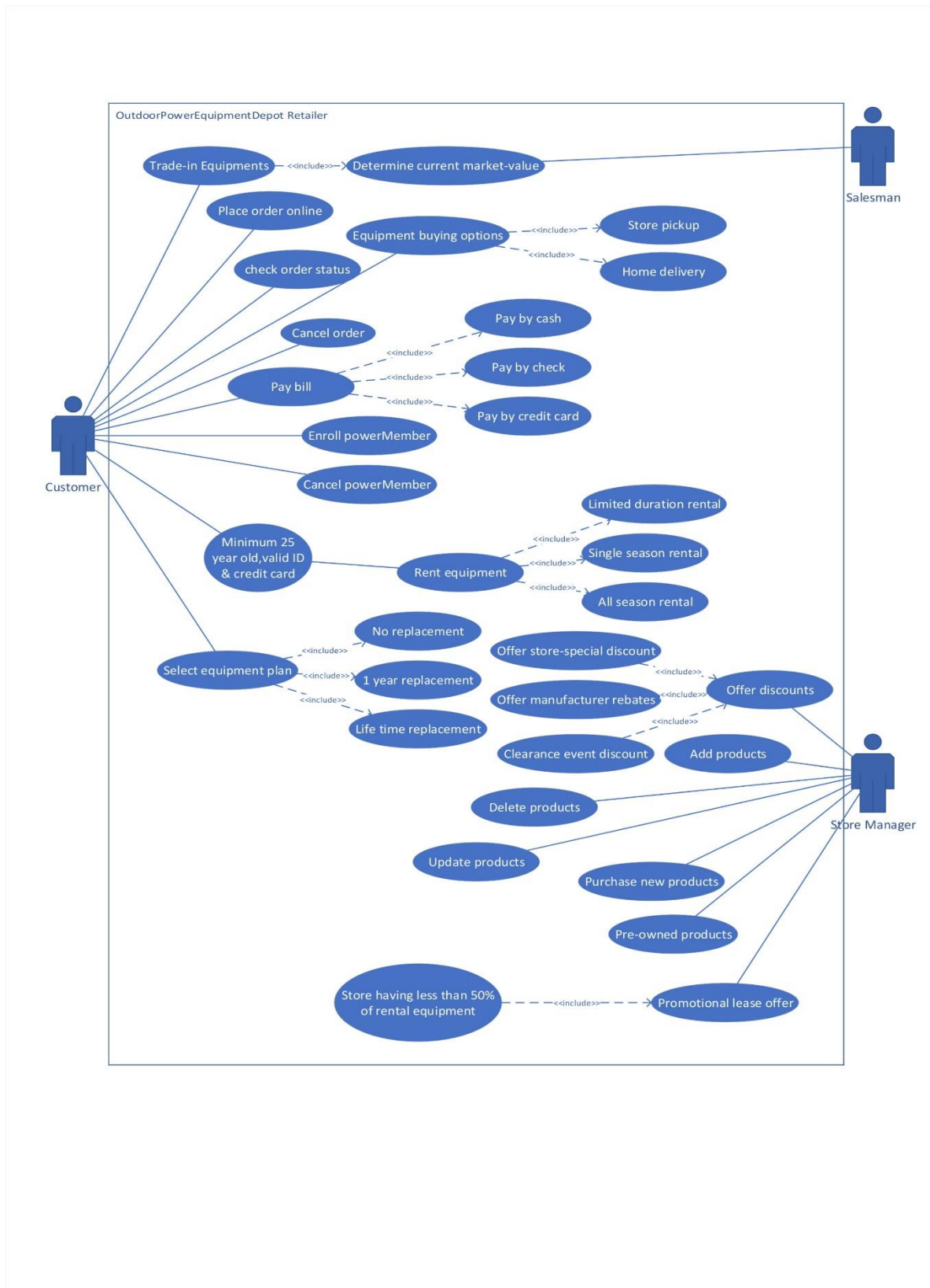
1. Customer
2. Store Manager
3. Salesman

2. List of Use Cases

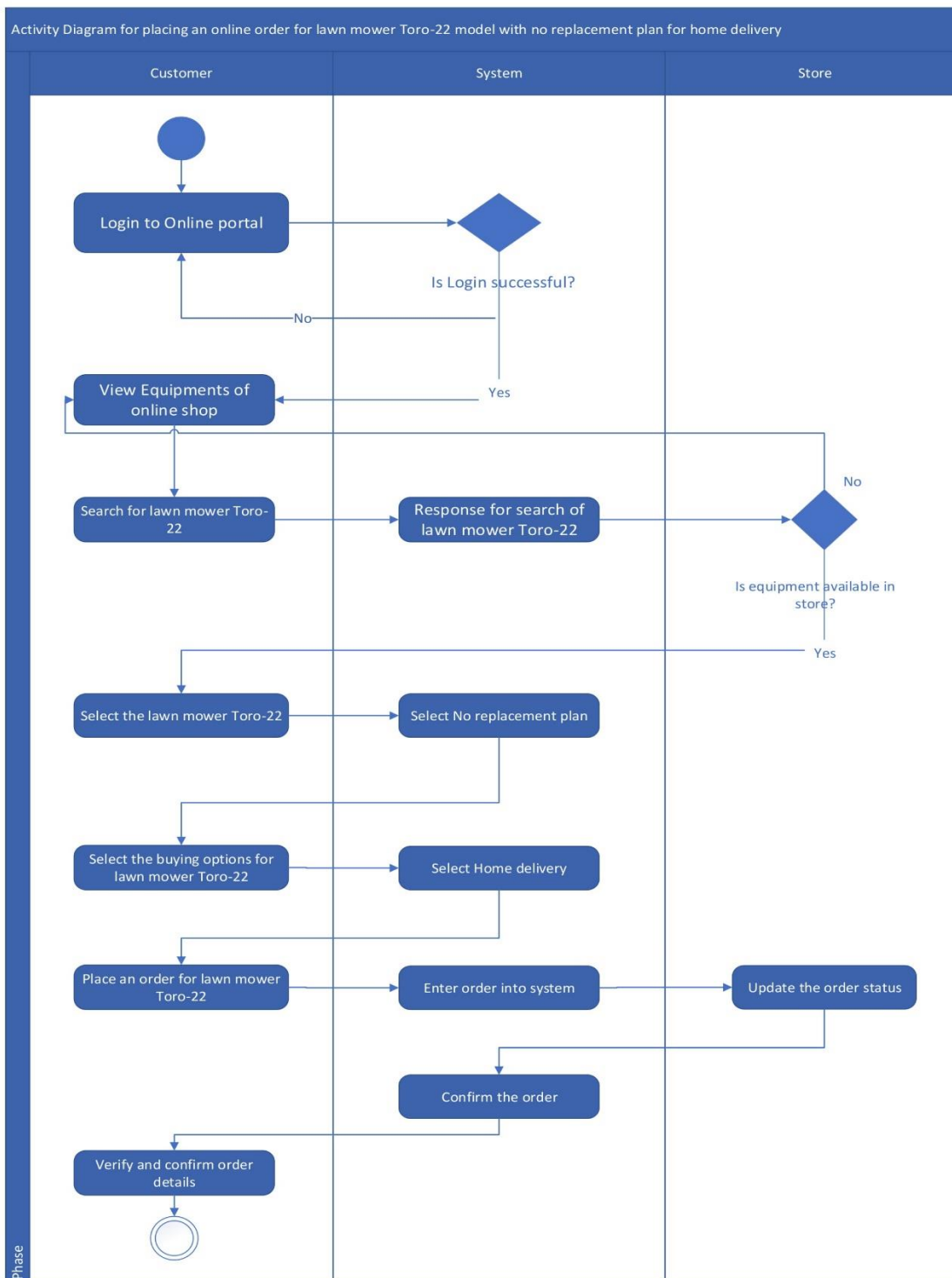
1. The store manager can add products
2. The store manager can delete products
3. The store manager can update products
4. The store manager can sell, trade-in and lease new and pre-owned products
5. Customer can shop number of equipment with different manufacturers
6. Customer can shop number of equipment with different models of manufacturers
7. Customer can get extended warranty plan from retailer
8. Customer can buy new equipment with no replacement
9. Customer can buy new equipment with 1 year replacement for 50% fee of the equipment's retail price
10. Customer can buy new equipment with lifetime replacement for 65% fee of the equipment's retail price
11. Customer can trade-in equipment
12. Customer can rent equipment only if
 - a. Customer is at least 25 years old
 - b. Customer have valid ID card
 - c. Customer have valid credit card
13. Customer can rent equipment with number of following rent plans
 - a. Customer can rent equipment for limited number of days (2 days)
 - b. Customer can rent equipment for single season (for example, snow blower for entire winter)

- c. Customer can rent equipment for all seasons
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- 14. Customer can place and manage an order like tracking and cancelling an order
 - 15. Customer or salesman can determine the current market-value of trade-in equipment
 - 16. Customer can choose between home delivery or in-store pickup for rental
 - 17. Customer can pay for equipment by following methods:
 - a. Cash
 - b. Check
 - c. Credit card
 - 18. Customer can enroll or cancel for powerMember with annual fee of 30\$ to get 5% discount on every equipment.
 - 19. Customer can get store special discount on some equipment
 - 20. Customer can get manufacturer rebates on some equipment
 - 21. Store manager can send email of 25% discount on lease if store has more than 50% of equipment stored in it.
 - 22. Store manager can send email of 20% discount on clearance event to minimize restocking cost.

3. UML Use-Case Diagram



4. Activity Diagram



5. Fully dressed format Use-Case

Use case: Place an online order

Use case	Place an online order	
Scenario	Customer place an order online	
Triggering event	Customer wants to buy equipment online	
Description	Customer view equipment at online portal and choose one of it to purchase. Customer verifies it and places an order.	
Actors	Customer	
Stakeholder	Salesmen, store manager	
Pre-conditions	<ul style="list-style-type: none">• Customer must have account• Customer profile must be valid	
Post-conditions	<ul style="list-style-type: none">• Product must exist• Order must be linked with customer	
Event flow	Customer	System
	1. Login 2. Customer view equipment 3. Customer select and request to order	1.1 System logs in customer 2.1 System responses the result 3.1 System confirms the order
Exception Conditions	<ol style="list-style-type: none">1. Customer unable to login into system2. Product not available3. System crashed	