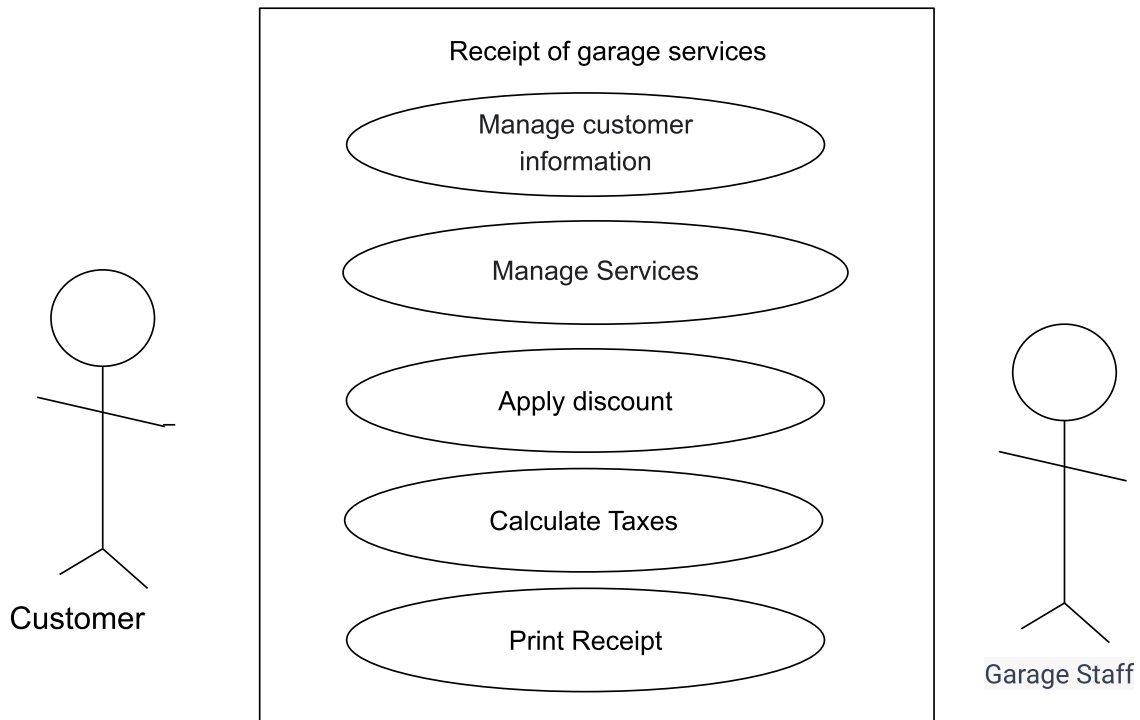


1. Identify the use cases for the software. Draw the **UML use-case diagram** and include supporting use-case descriptions. At-least 3 scenarios must be identified.

Use cases:



Use case 1: Manage customer information

Use Case:	Manage customer information
Trigger:	The garage staff manages customer information
Main scenarios:	1. The customer gives the system his ID.
	2. The system verifies the customer ID.
	3. The system asks the customer to provide a phone number.
	4. The system verifies the phone number.
	5. The system asks the user about the mechanic's name.

	6. The system verifies the mechanic's name.
	7. The system asks the customer about the vehicle information " type, color, ID"
	8. The system verifies vehicle information.
2a.	<ul style="list-style-type: none"> - The customer ID is invalid. - The use case ends, and an error message is communicated.
4a.	<ul style="list-style-type: none"> - The customer number is invalid. - The use case ends, and an error message is communicated.
6a.	<ul style="list-style-type: none"> - the mechanic's name is invalid. - The use case ends, and an error message is communicated.
8a.	<ul style="list-style-type: none"> - the mechanic's information is invalid. - The use case ends, and an error message is communicated.

Use Case:	Manage Services
Trigger:	The customer wants to add a garage service.
Prediction:	-
Main scenario:	1. Customer Choose "Manage Services" from the main menu.
	2. The system displays a list of existing services.
	3. The customer selects the wanted servers from the list "add ser.
	4. If the user clicks "remove service" the system removes the unwanted service from the list.
	5. The system updates the list.
	6. The system verifies the list
	8. The system gives the customer date to bring the car.

	9. The system verifies the date.
6a	<ul style="list-style-type: none"> - The user wants to add one extra service. - The user wants to remove the service. - The use case ends, and an error message is communicated.
9a	<ul style="list-style-type: none"> - If the date is not suitable for the customer. - The use case ends, and an error message is communicated.

Use Case:	Manage vehicle Services
Trigger:	<ul style="list-style-type: none"> - A customer brings a vehicle for service
Prediction:	<ul style="list-style-type: none"> - The customer verifies his information - A list of wanted services is generated.
Main scenario:	1. The manager of services initiates a new service request for the customer's car.
	2. The system creates a unique service request ID and assigns it to the request.
	3. A mechanic is sent to the service request by the service manager.
	4. The mechanic checks the service request.
	5. The mechanic performs the requested service on the vehicle.
	6. The mechanic logs the accomplished service in the system.
	7. The system tells the service manager that the service has been completed.
	8. The service manager reviews the completed service request.
	9. The system sends a message to the

	customer that the vehicle is ready for pickup.
1a	<ul style="list-style-type: none"> - If a new service request is not available, the service manager must book the client at a later time. - The use case ends, and an error message is communicated.
3a	<ul style="list-style-type: none"> - If the mechanic is not available The use case ends, and an error message is communicated.
8a	<ul style="list-style-type: none"> - if there is a missing service the use case ends, and an error message is communicated.

Use Case:	Calculate Total with Taxes and Discount
Trigger:	<ul style="list-style-type: none"> - The customer wants to pay for the services that have been done.
Prediction:	<ul style="list-style-type: none"> - User has selected one or more services to be done on the vehicle.
Main scenario:	1. The system tells the user to enter any discount code that is available.
	2. User enters discount code, if available.
	3. If the code is valid, the system takes the discount off the total.
	4. System adds taxes based on the total cost.
	5. The system shows the user the total cost with taxes and any discounts.
	6. System prints: <ul style="list-style-type: none"> - The user information - The vehicle information. - list of the accomplished services with each service price, total price, Taxes, Discount

3a	If the code is invalid the use case ends, and an error message is communicated.

Customer
-firstName:string -lastName:string -phoneNumber: -ID:
+setFirstName(firstName:String) +getFirstName():string +setLastName(lastName:string) +getLastName():string +setPhoneNumber():string +getPhoneNumber(phoneNumber:stri ng) +getID():string +getID(ID:string)

vehicle
-mechanicName:string -vehicleType:string -vehicleColor:ENUM -vehicleID:string -vehiclePlate:
+setMechanicName(mechanicName: string) +getMechanicName():string +setVehicleType(VehicleType:string) +getVehicleType():string +setVehicleColor(color:Color) +getVehicleColor():ENUM +getVehicleType:string +getvehicleID:string

Service

invoice