

Use-case for adding a model

Actions performed by actor	Responses from the System
1. The company receives a new model to distribute in its store	
2. Store worker issues request to add new model to registry	
	3. The system asks for extra attributes for the model
4. Worker enters in extra attributes for model	
	5. System creates appliance id and stores attributes/id and asks user if they would like to enter another model
6. User answers in the affirmative or the negative	
	7. If answer is in the affirmative, goes to step 3, otherwise it exits

Use-case for adding to inventory

Actions performed by user	Responses from system
1. Company receives new stock and decides to add to inventory	
2. Worker issues a request to add to inventory	
	3. System asks user to input appliance id for appliance and amount added to inventory
4. User enters specific appliance id and amount being added to inventory	
	5. System updates inventory for appliance id
	6. System checks for back orders for this appliance and if there are, goes to step 7, otherwise goes to step 9
	7. System will check the earliest back order and if there is enough in inventory to process, goes to step 8, otherwise it goes to step 9

	8. Back order is fulfilled, total sales and inventory is updated. If there are more back orders, goes to step 7, otherwise goes to step 9
	9. System prompts user that items have been added to inventory and if back orders have been fulfilled, which ones have been completed and asks if more items need to be added
10. User reads prompt and answers yes or no to additional items added	
	11. If user response is yes, return to step 3, if no, the system exits

Use-case for purchases

Actions performed by user	Responses from system
1. Customer requests to purchase quantity of appliance in store	
2. Worker identifies appliance by appliance id and customer by customer id	
3. Worker requests purchase from the system	
	4. System asks for appliance id and quantity requested
5. Worker enters appliance id and quantity into system	
	6. System checks if there is enough stock in inventory for immediate purchase, if true, goes to step 7, if not, goes to step 10
	7. System updates inventory, calculates sale, updates total sales. It then asks user if they would like to enter another purchase
8. User answers in the affirmative or in the negative	
	9. If the answer is the affirmative, system goes to step 4, otherwise it exits

	10. System will check for other back orders with this appliance id and add this order behind them, then prompts user that order has been sent to back order, and asks user if they would like to add another purchase
11. User answers in the affirmative or in the negative	
	12. If the answer is the affirmative, system goes to step 4, otherwise it exits

Use-case for enrolling a repair plan

Actions performed by user	Responses from system
1. User is checking out appliance and enters user id and appliance id into system	
	2. System will check if the appliance id has a corresponding repair plan, if so, moves to step 3, otherwise it exits
	3. System has found repair plan for appliance id and prompts user if the customer would like to enroll in repair plan
4. User asks customer if they would like to enroll in repair plan	
5. If customer agrees to repair plan, the user inputs yes, if they don't, user inputs no	
	6. If answer is affirmative, system records customer id, user id and appliance id to generate a repair plan and provides user information on the new repair plan. If answer is negative, system exits

Use-case for charging repair plans

Actions performed by user	Responses from system
1. Company decides to charge for repair plan or has repair plan charges done on some interval	
	2. System will search for the customer id's who have repair plans and update their balances based on cost of repair plan. System will also update total sales from repair plans. System will then send a notification confirming completion of charges to company and customer and exits
3. Company receives notification that repair plan charges have been issued and customers received notification of new charges added to their balance	

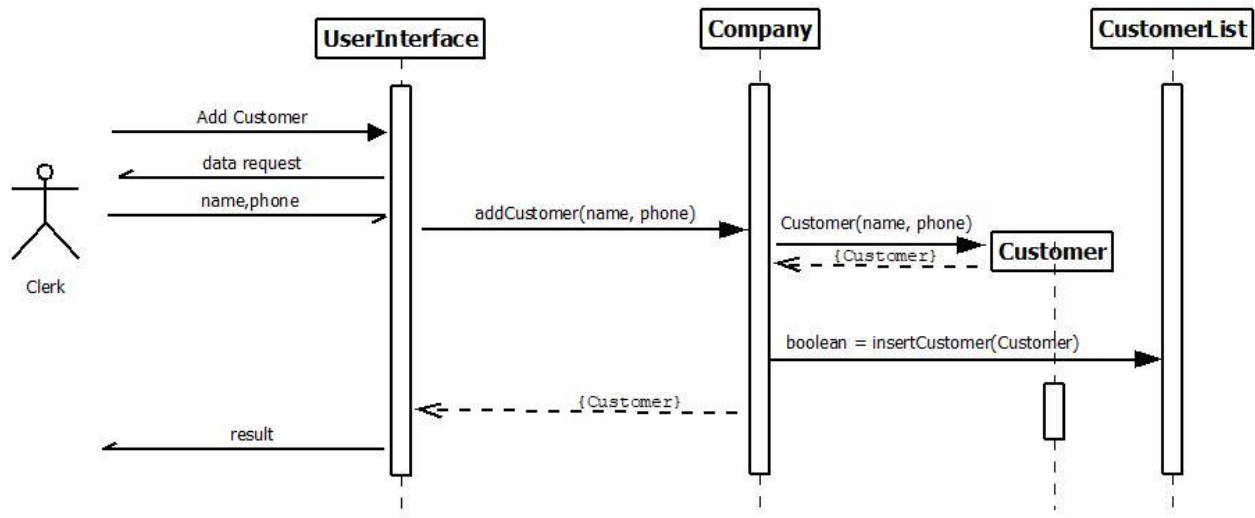
Use-case for printing revenue

Actions performed by user	Responses from system
1. User requests revenue from all sales and repair plans	
	2. System will prepare total sales and then total the amount of repair plans and format these numbers appropriately, then display these values to the user
3. User will view the total sales and total repair plan sales	
	4. System asks if user would like to recompute these values
5. User enters yes or no	
	6. If yes, goes to step 2. If no, system exits

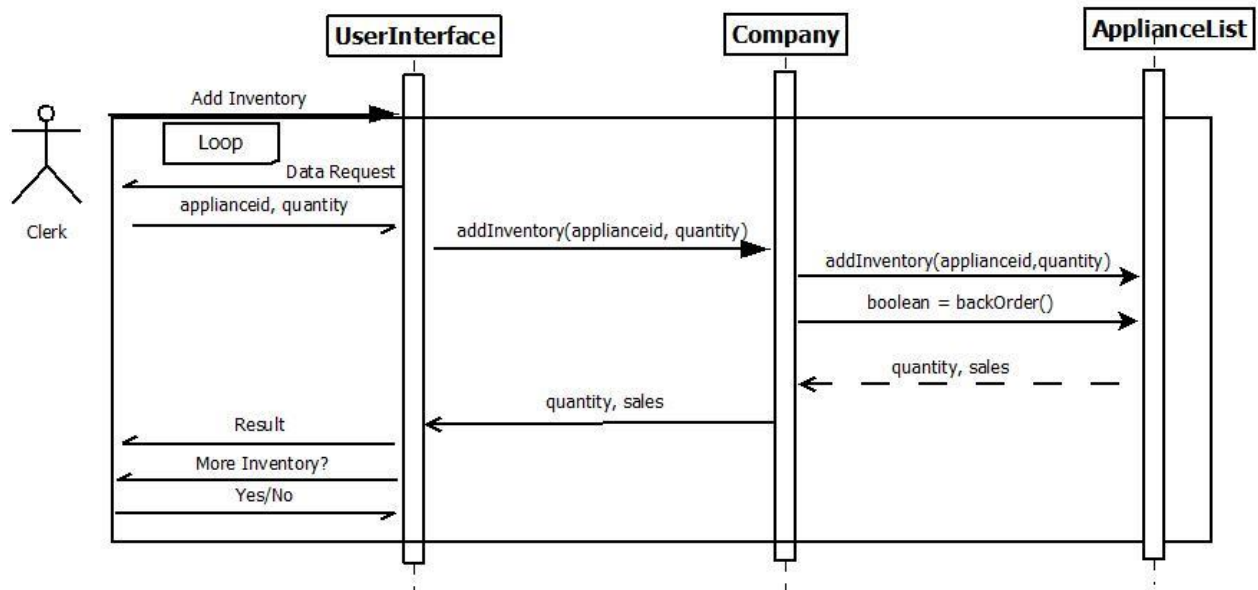
Use-case for listing all repair plans

Actions performed by user	Responses from system
1. User requests list of all repair plans	
	2. System searches all customer ids for an associated repair plan, if the customer has a repair plan associated with their id, the system will add the customer's name, phone, id, their account balances and brand/model of appliances for which they are enrolled to a list. After going through all the customers, this list will then be output to the User, the system will ask the user if they want to regenerate the list
3. User receives list of all repair plan information and enters yes or no	
	4. If yes, System will go to step 2, if no, system exits

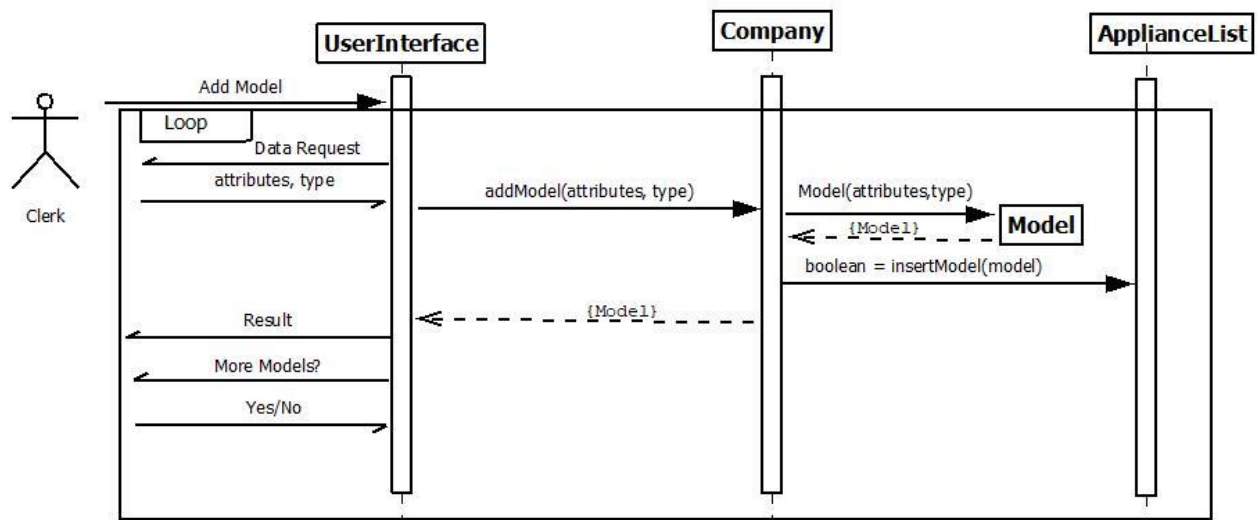
Sequence Diagram for Adding a Member



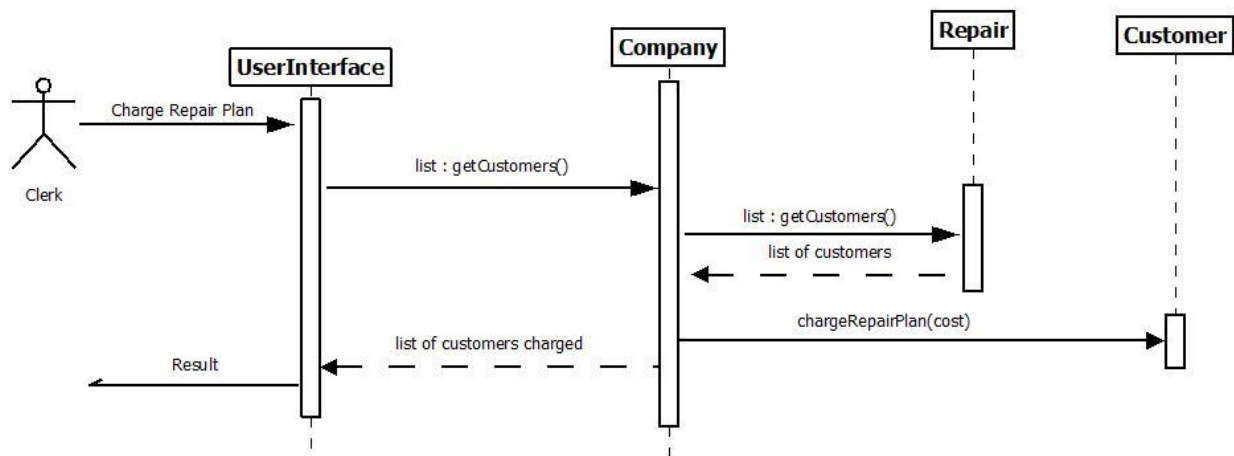
Sequence Diagram for adding to Inventory



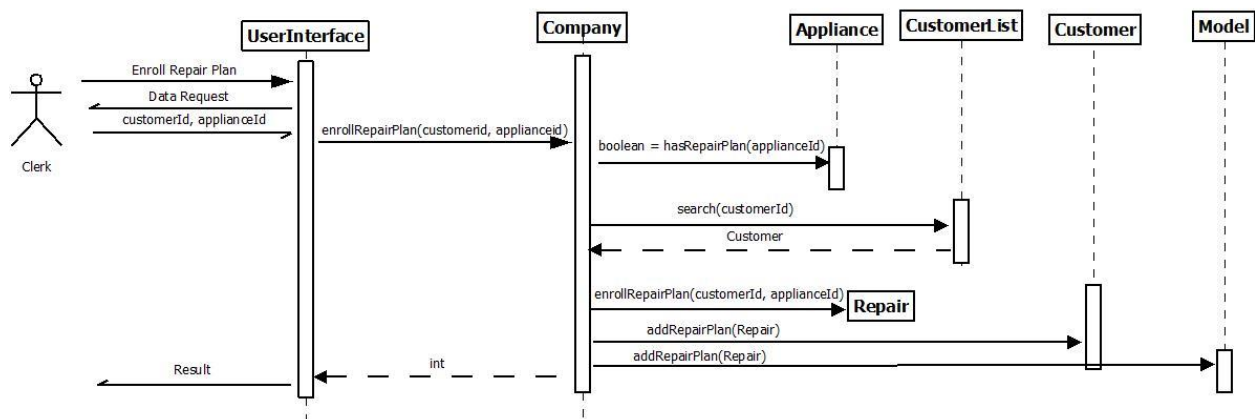
Sequence Diagram for adding a model



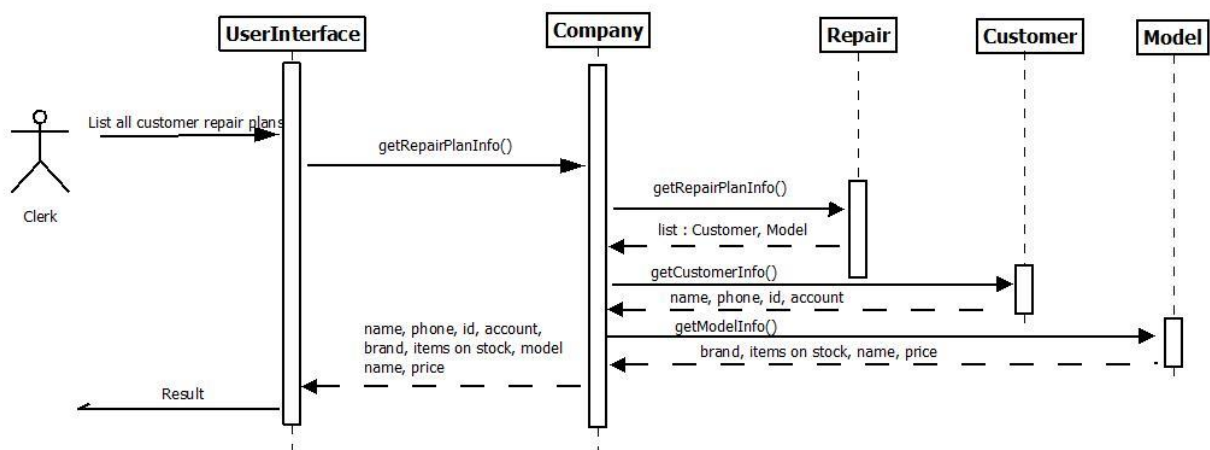
Sequence Diagram for charging repair plans



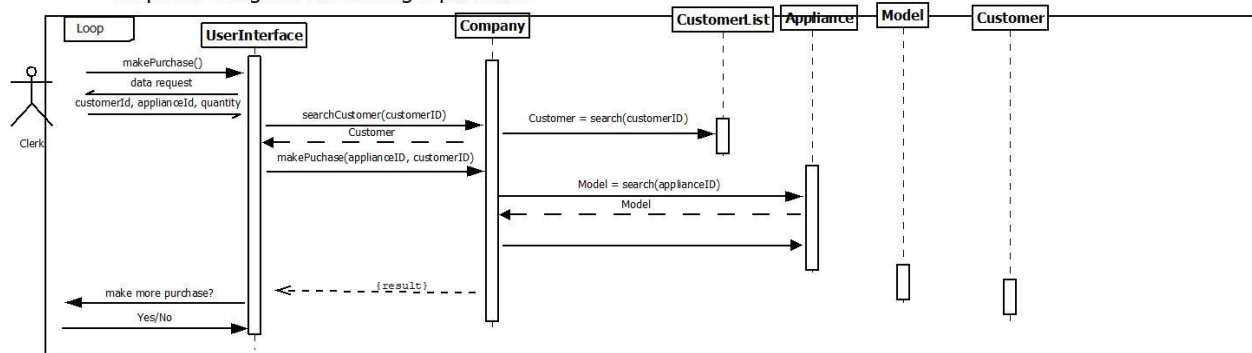
Sequence For Enrolling a Repair Plan

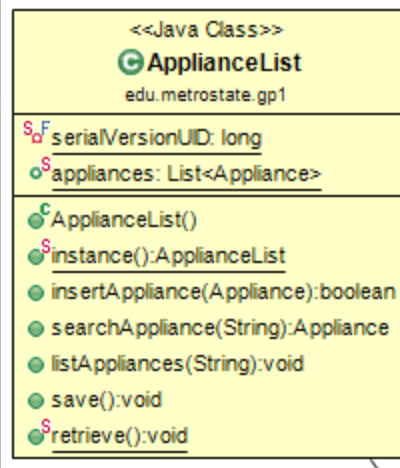
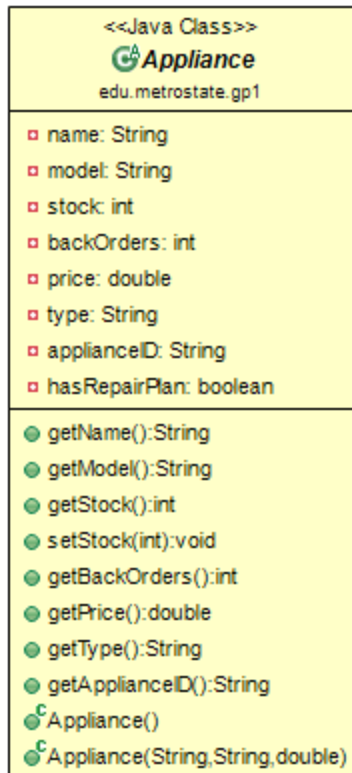


Sequence Diagram for listing all users in repair plans

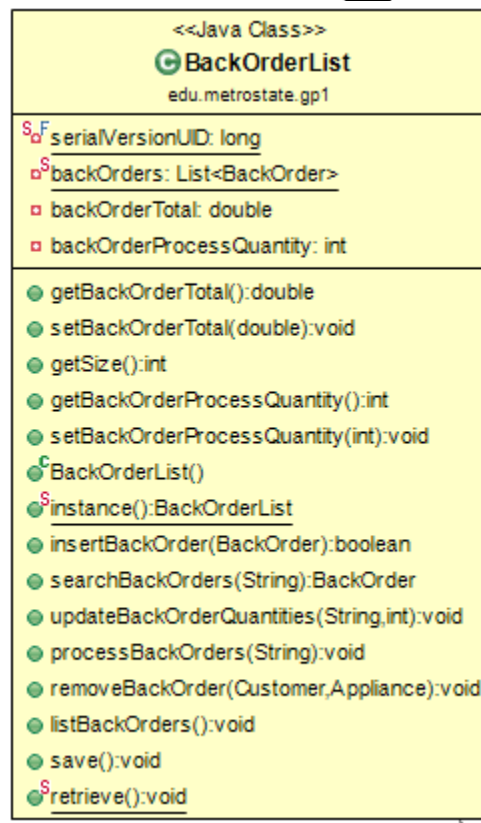


Sequence Diagram for making a purchase

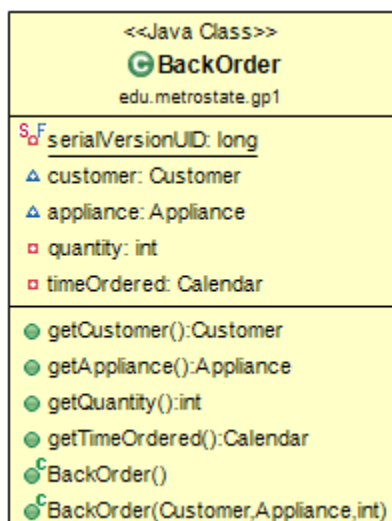


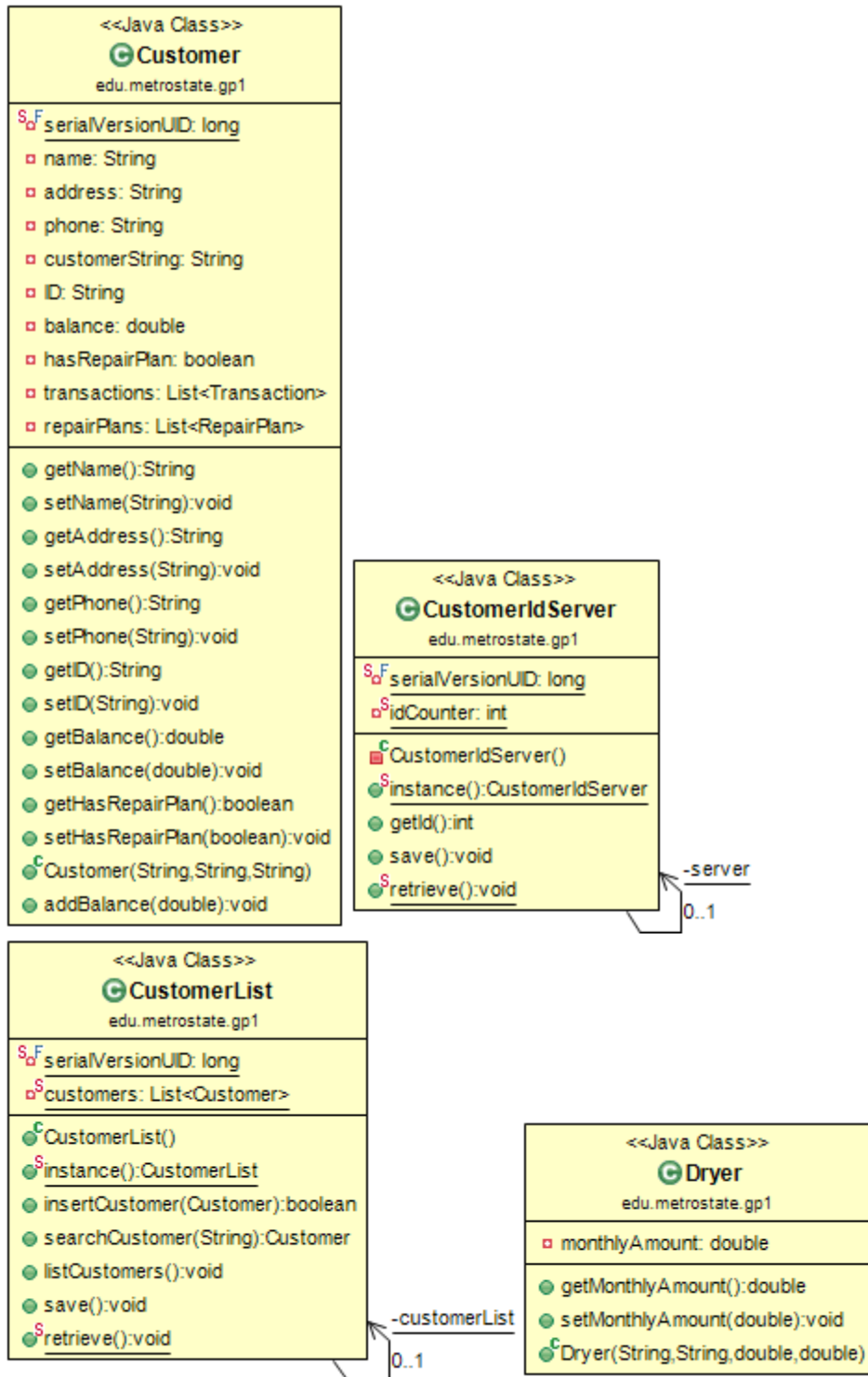


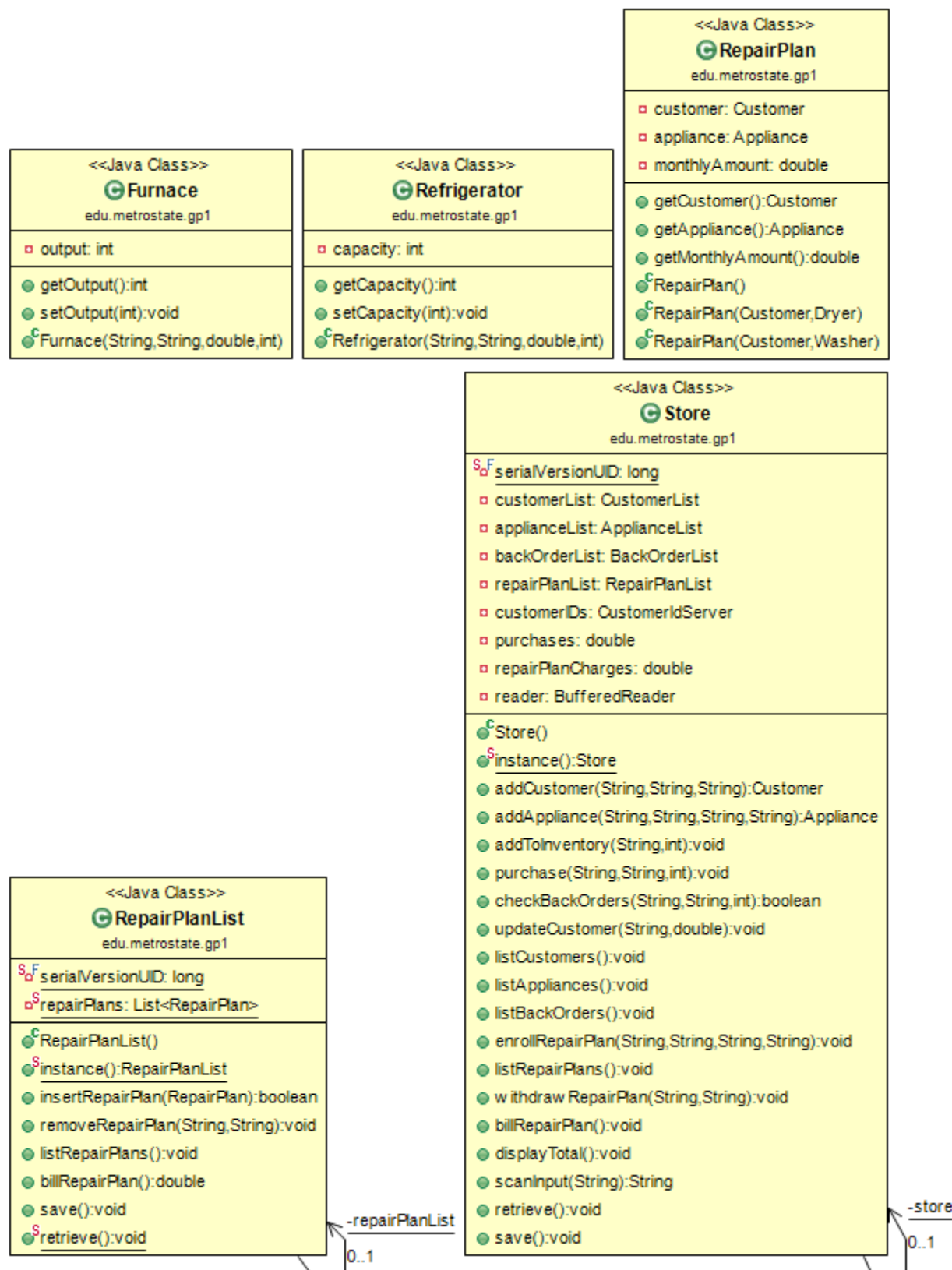
+applianceList
0..1

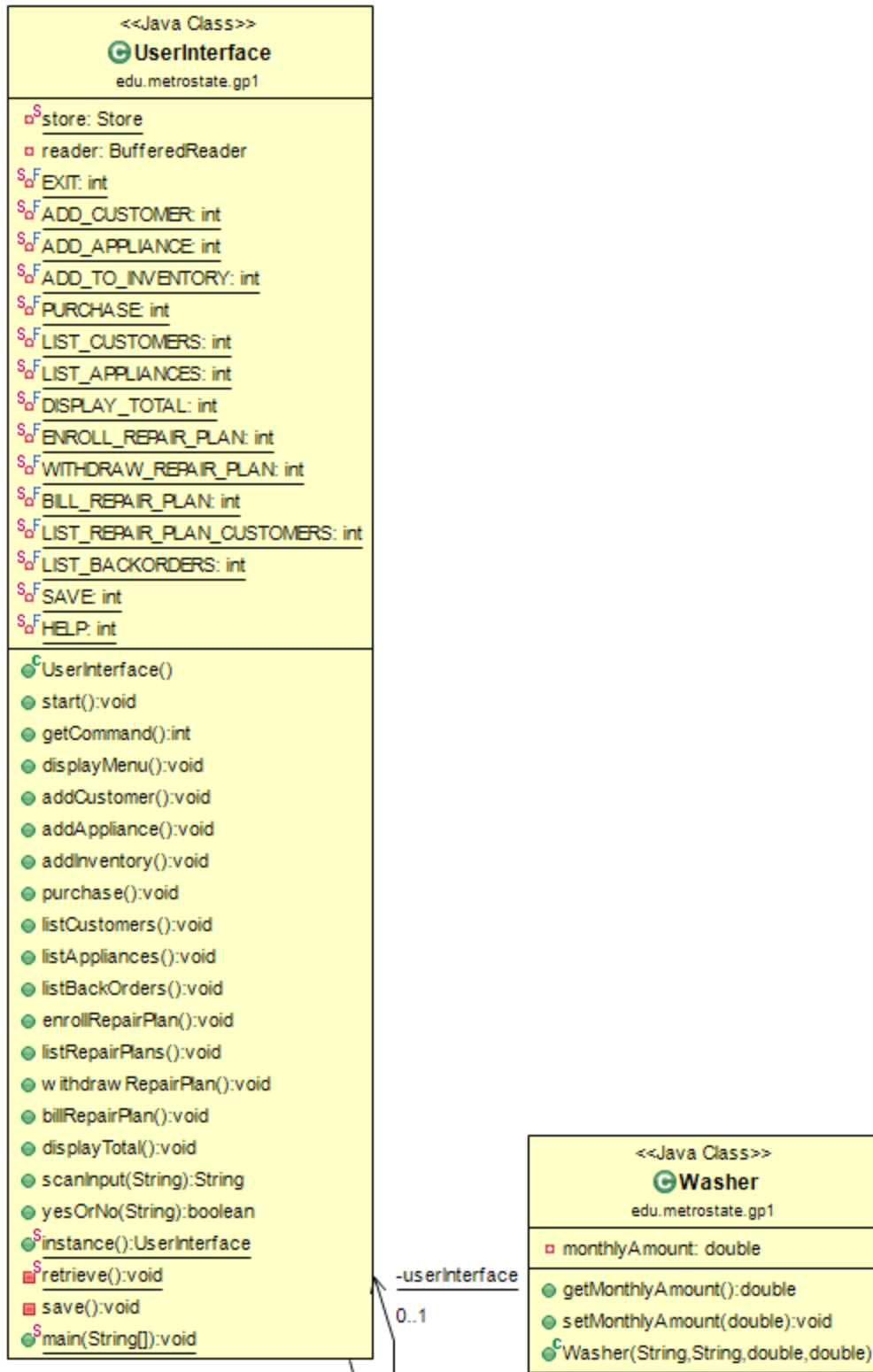


-backOrder
0..1









Physical class diagram:

