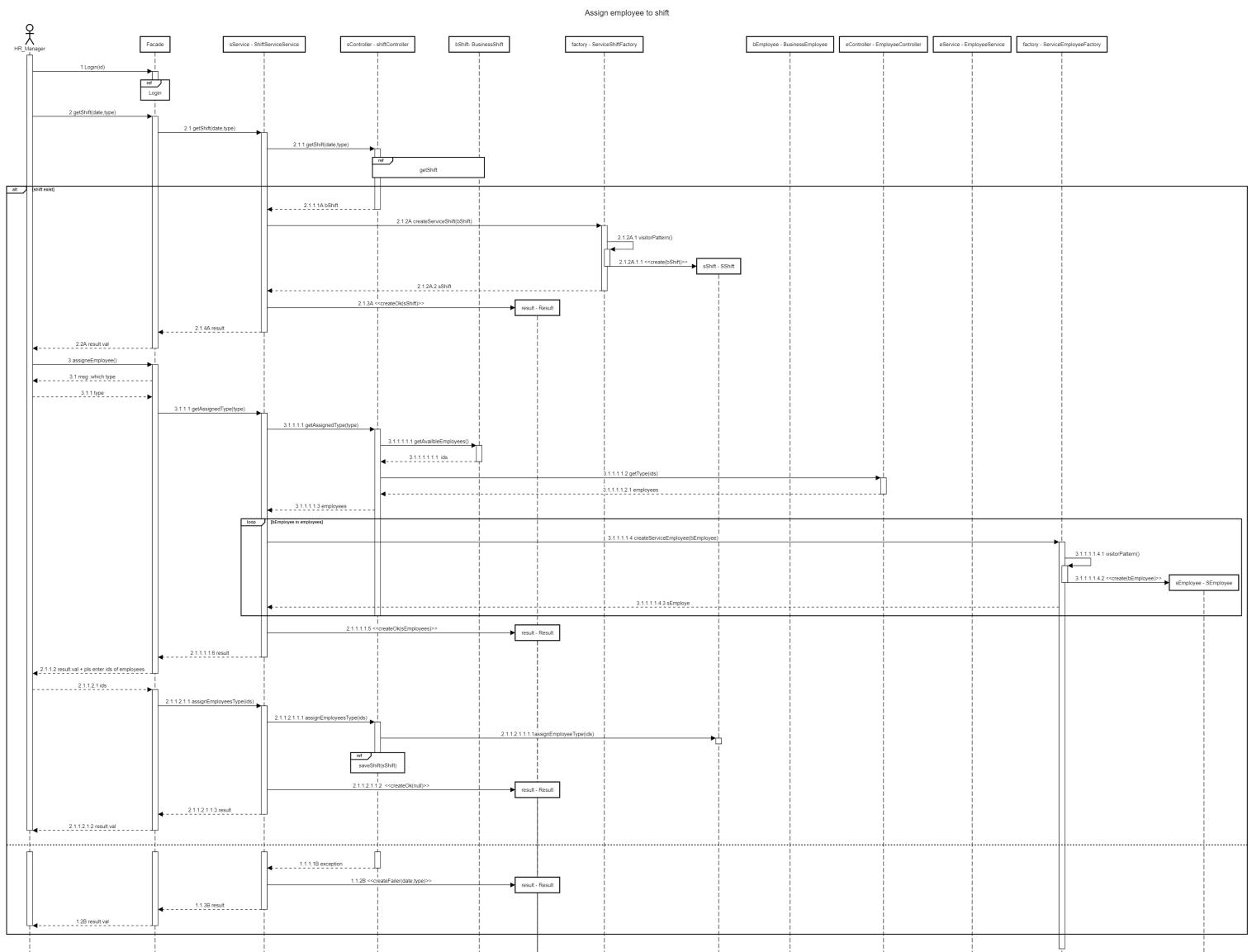


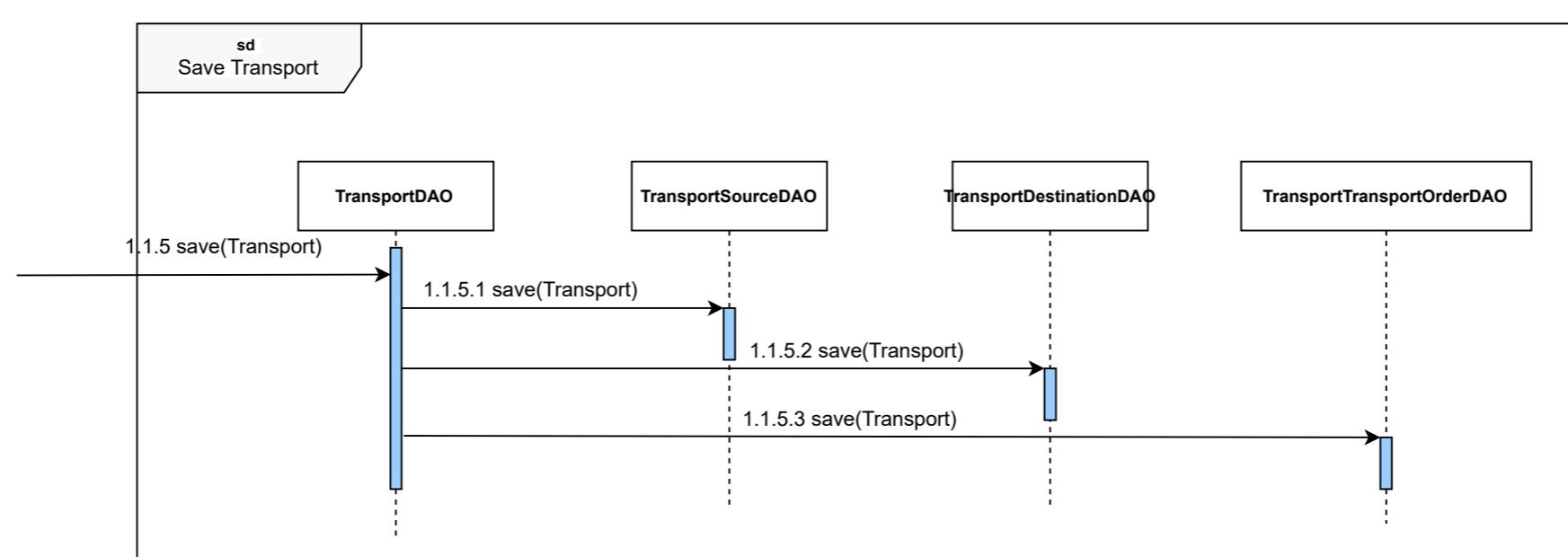
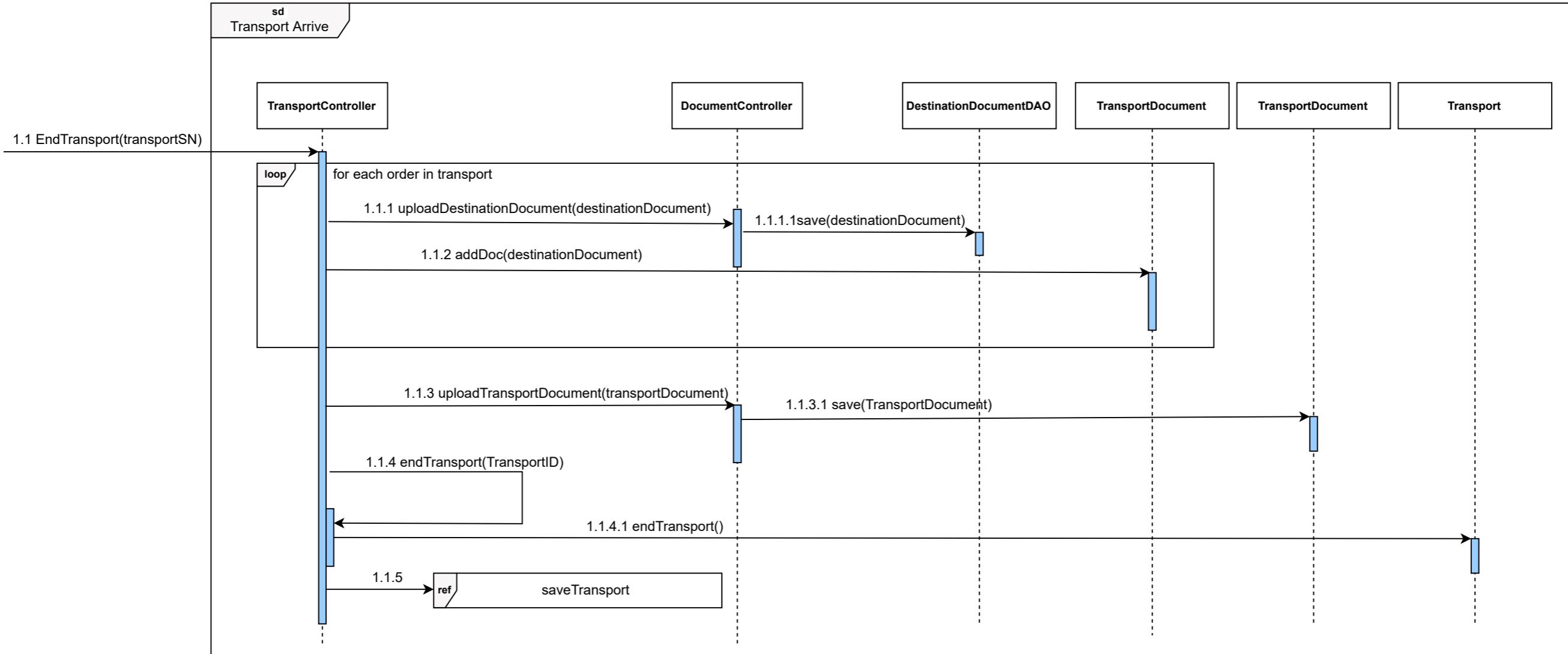


“Superly”

Specification Document

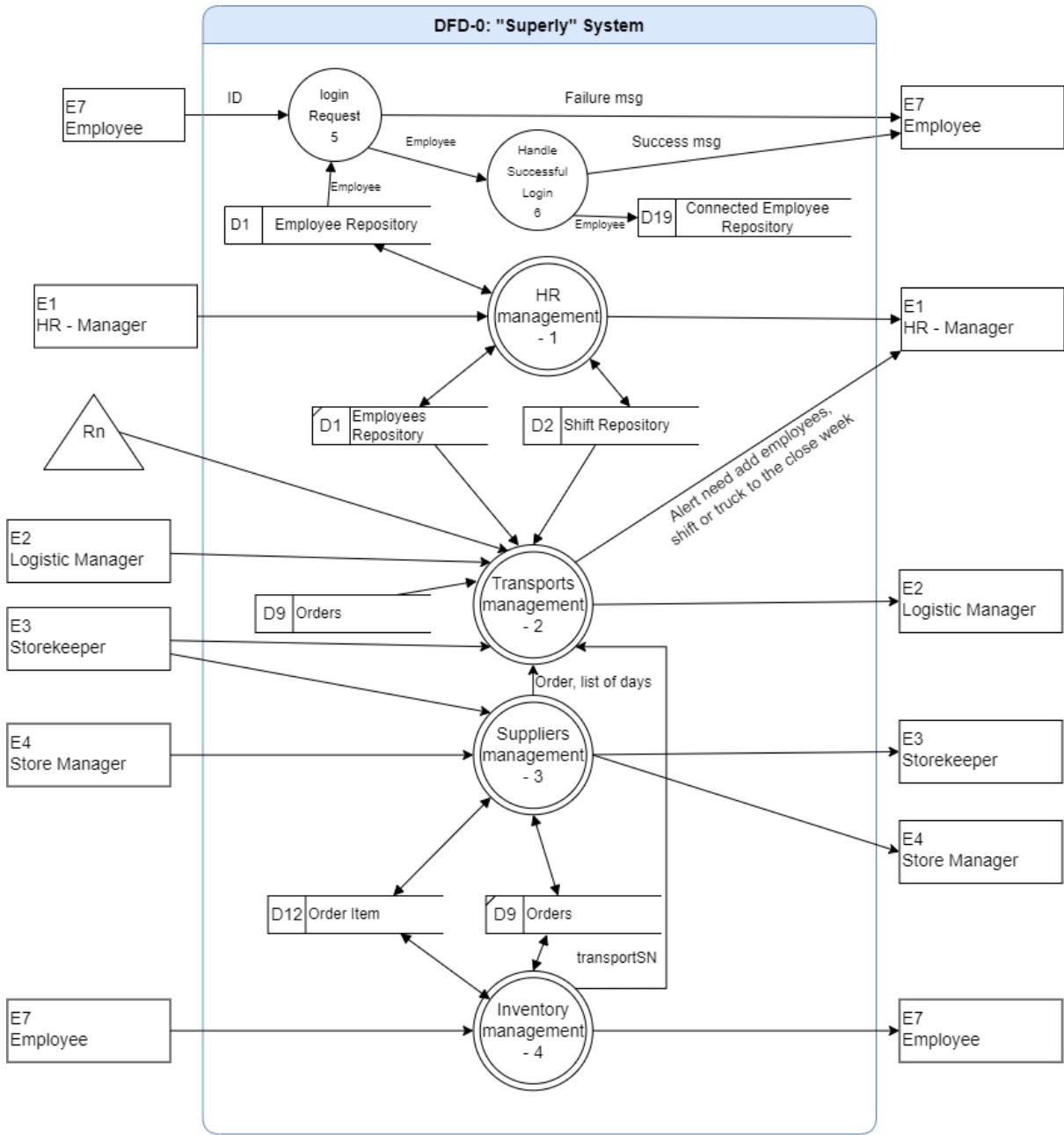
Roi Tiefenbrunn	209829340
Ofek Nov	206618175
Chai Shalev Hadad	209268135
Eldad Vasker	325082311
Tomer Ravkaie	208944660
Yonatan Diga	318944691
Amir Maliah	207468927
Sagi Kayat	209484146



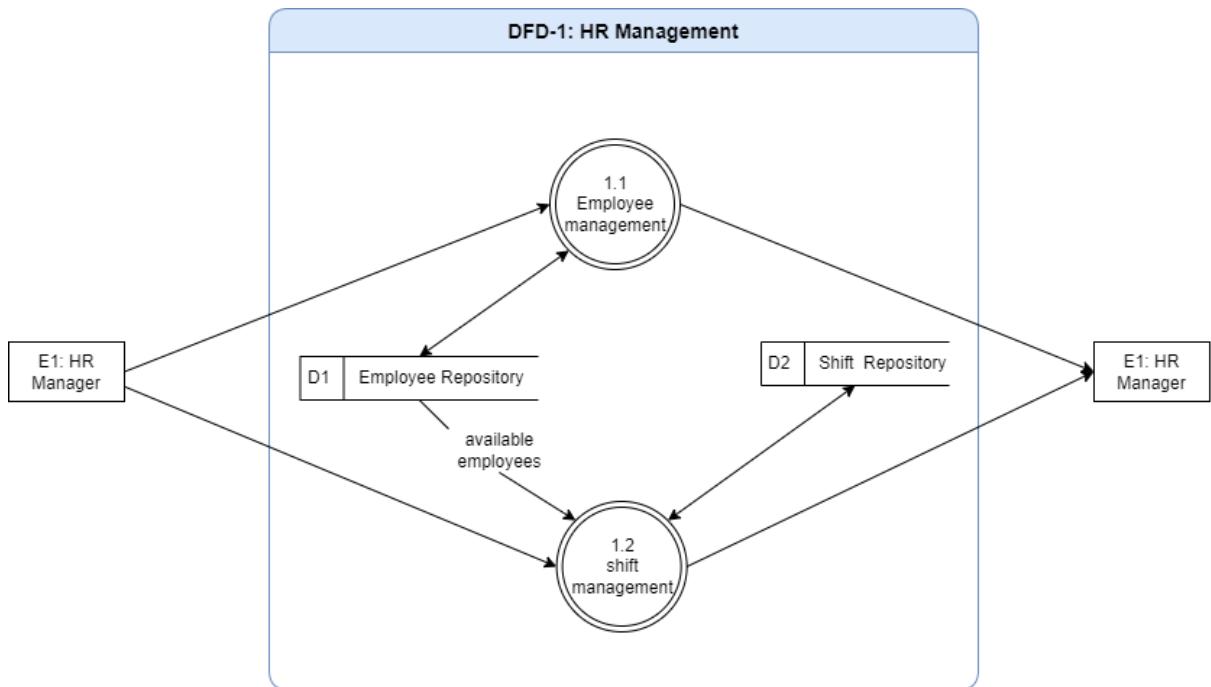


DFDs:

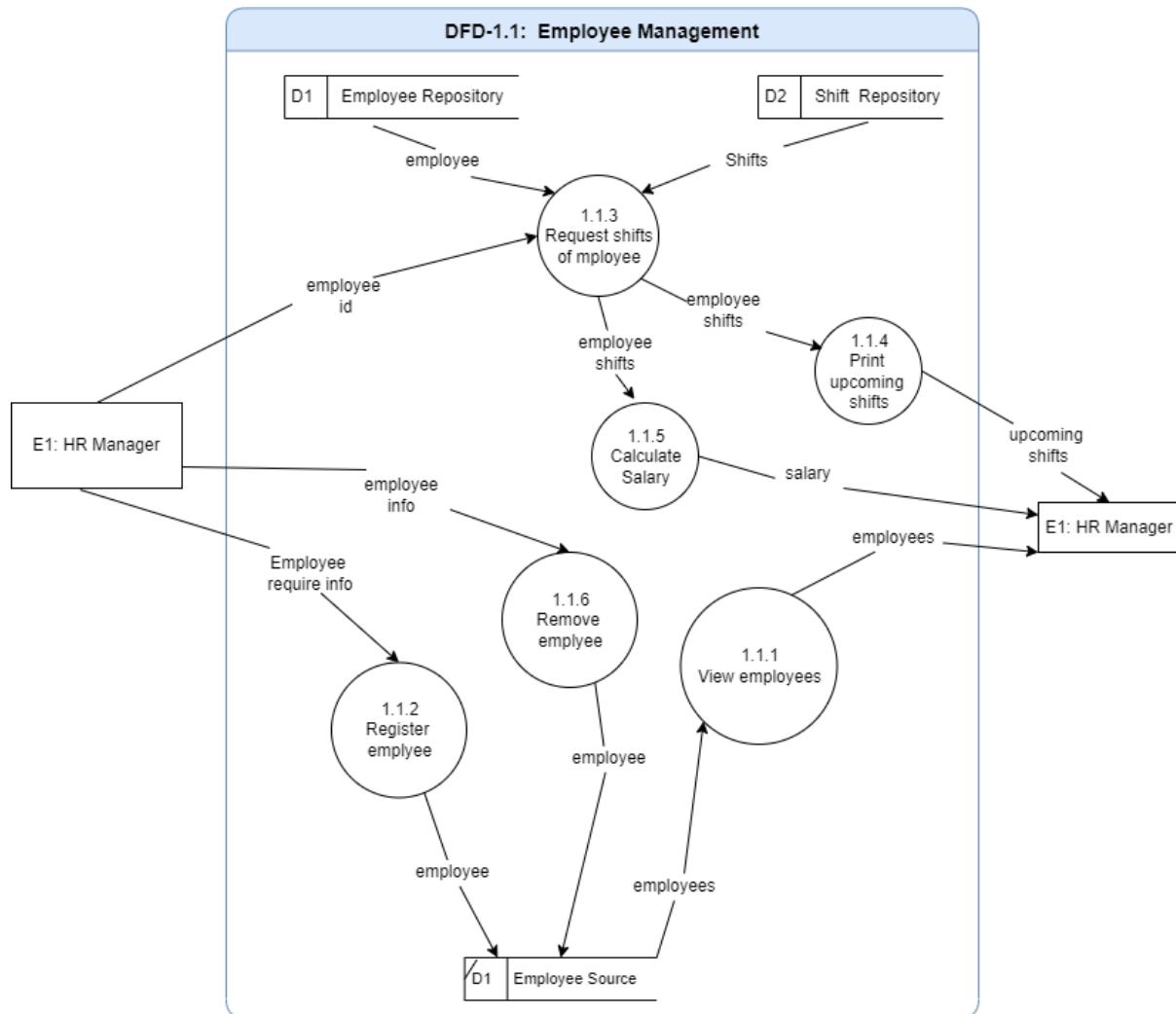
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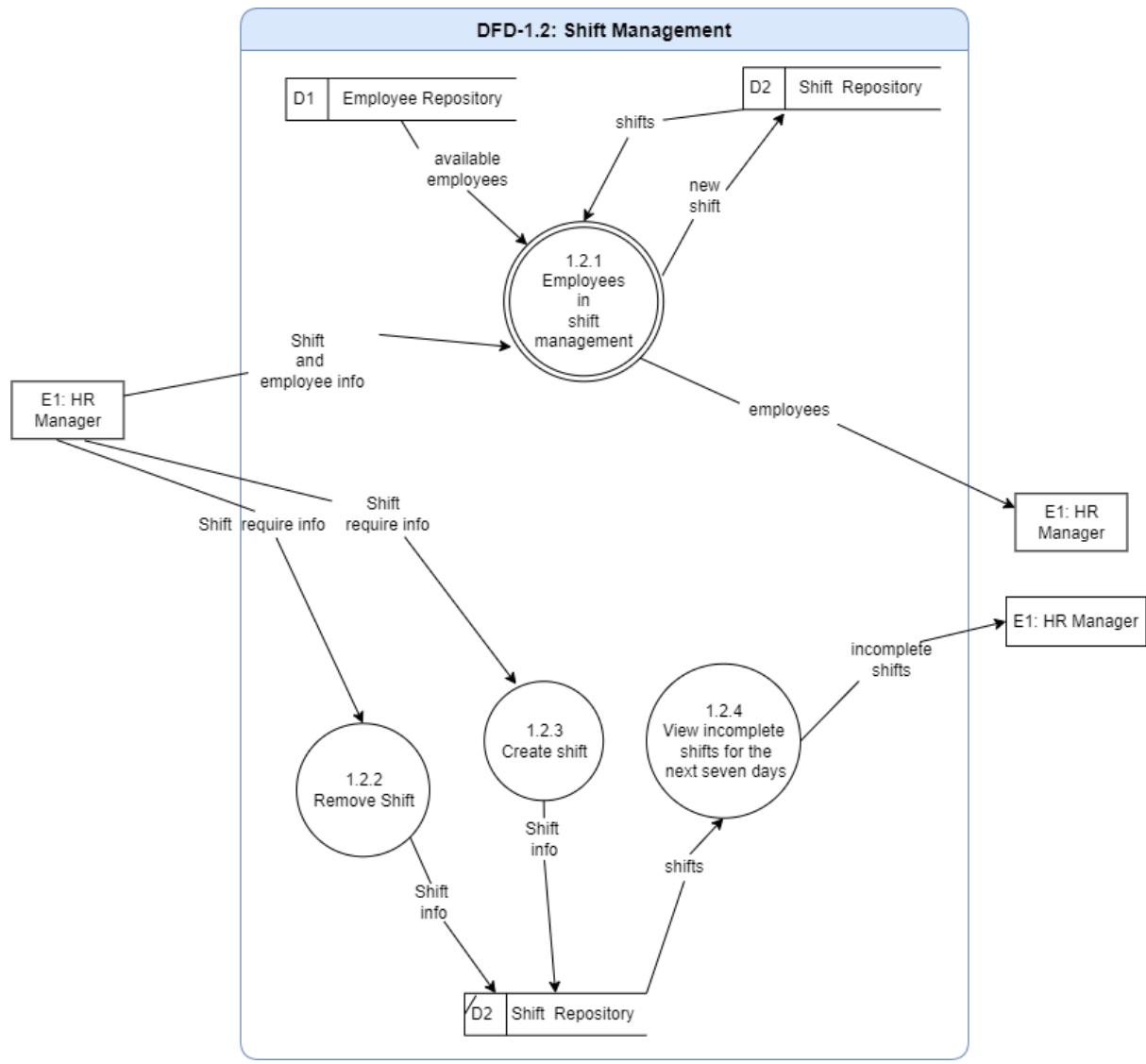
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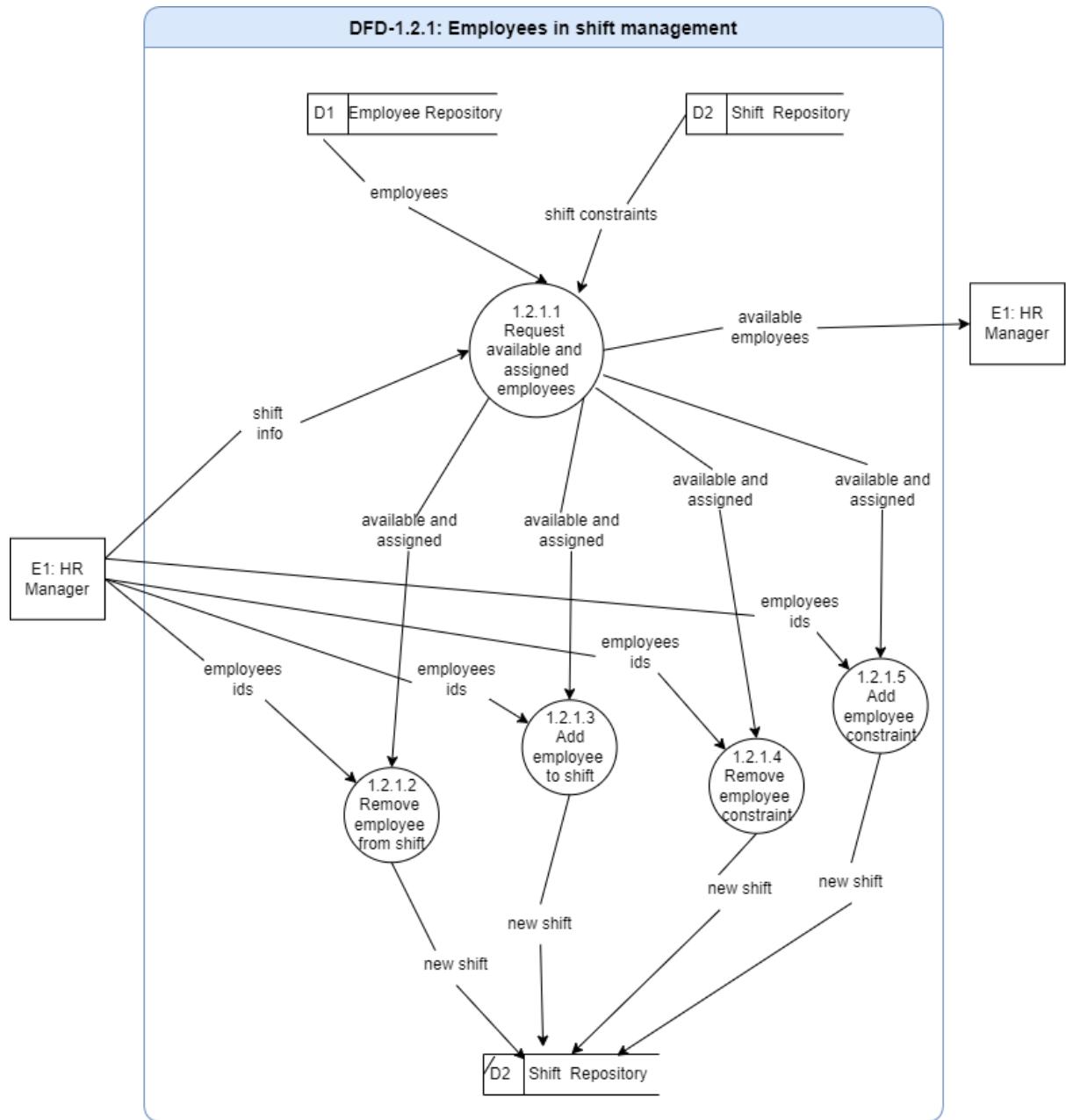
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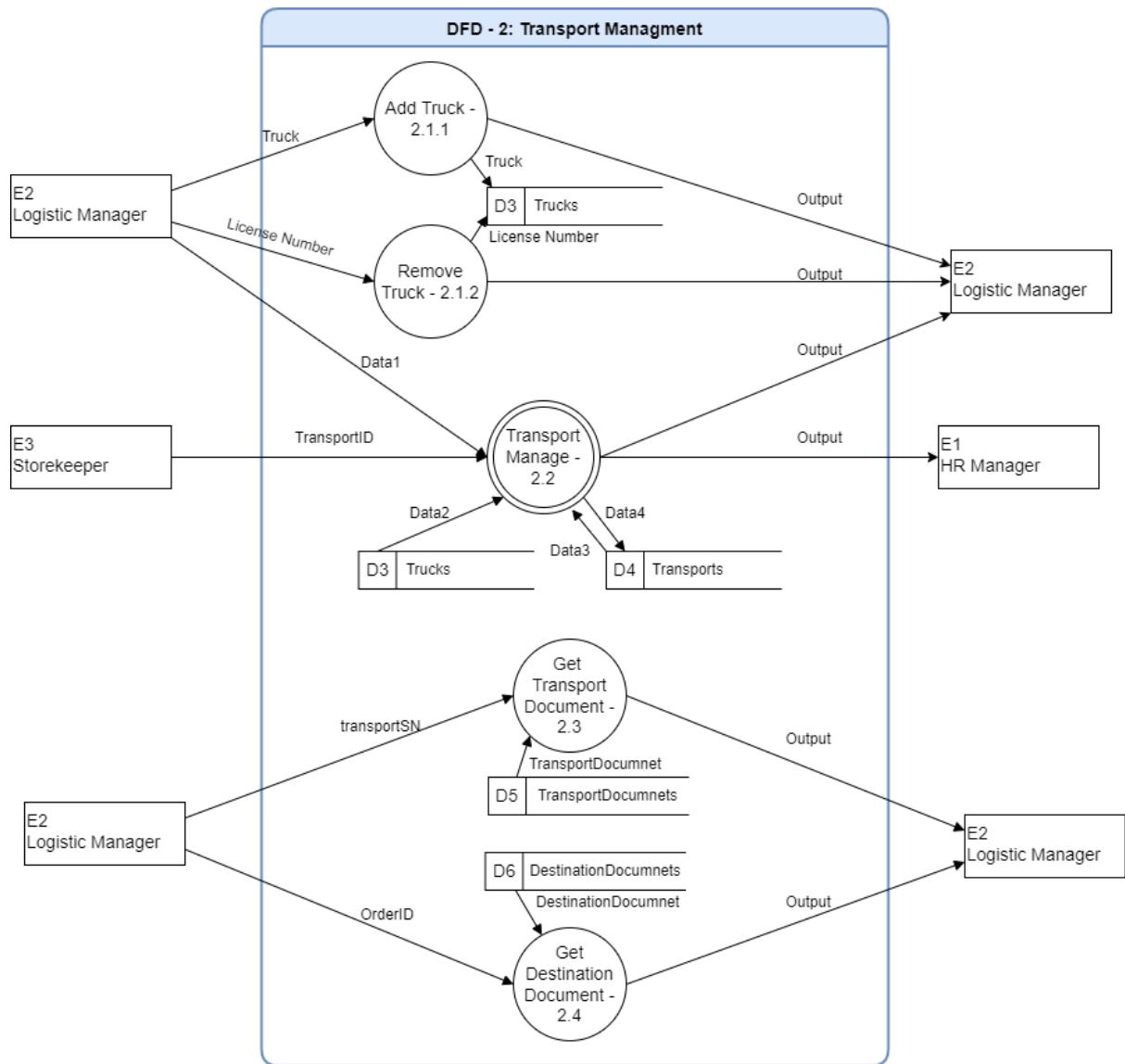
DFD – 1.2: Shift Management:



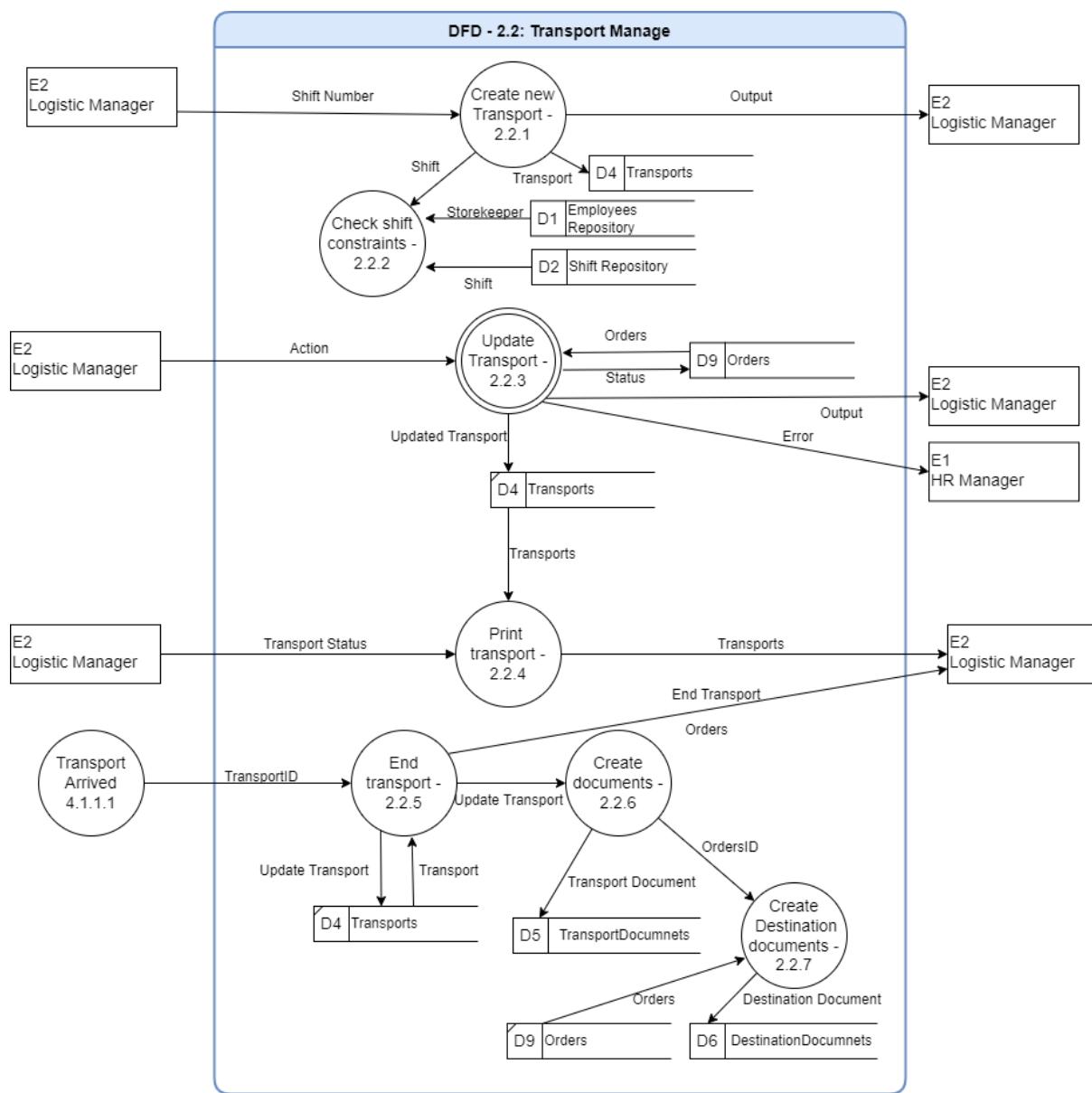
DFD – 1.2.1: Employee In Shift Management:



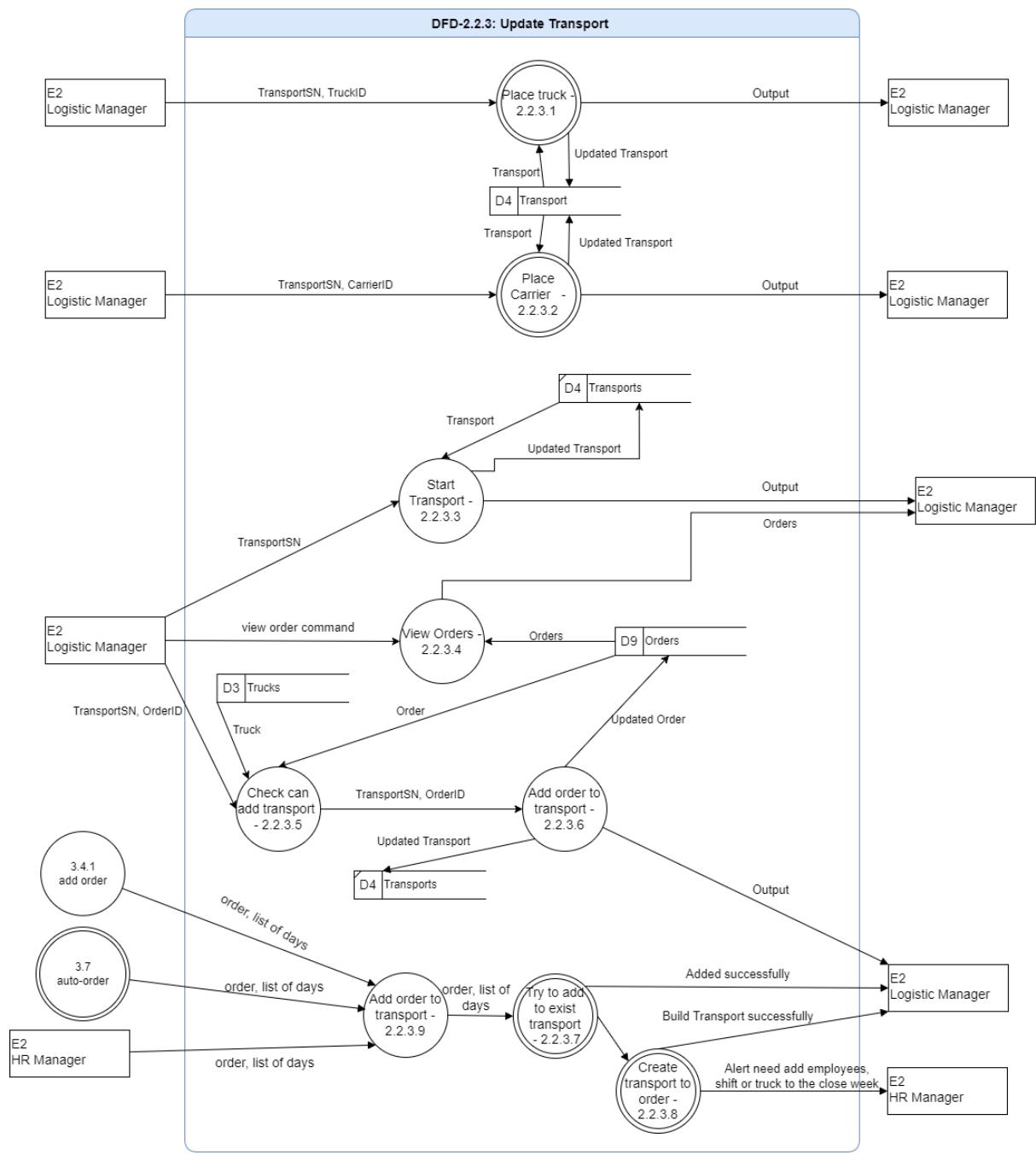
DFD – 2: Transport Management:



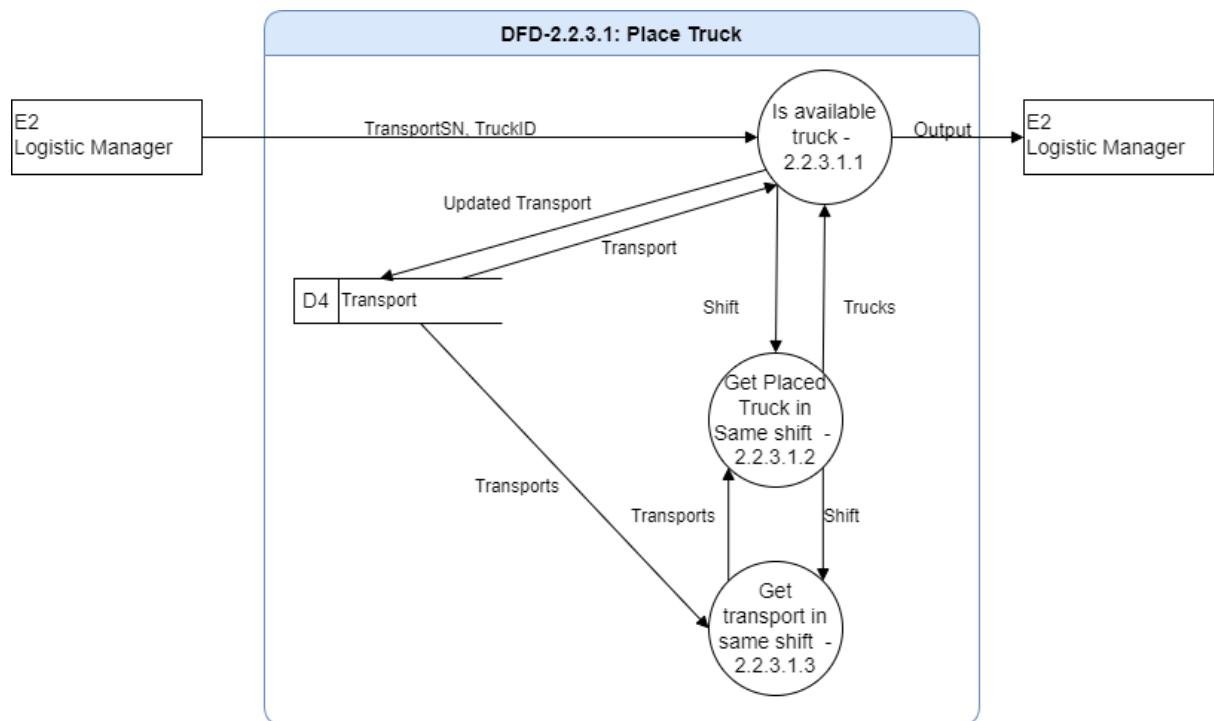
DFD – 2.2: Transport Manage:



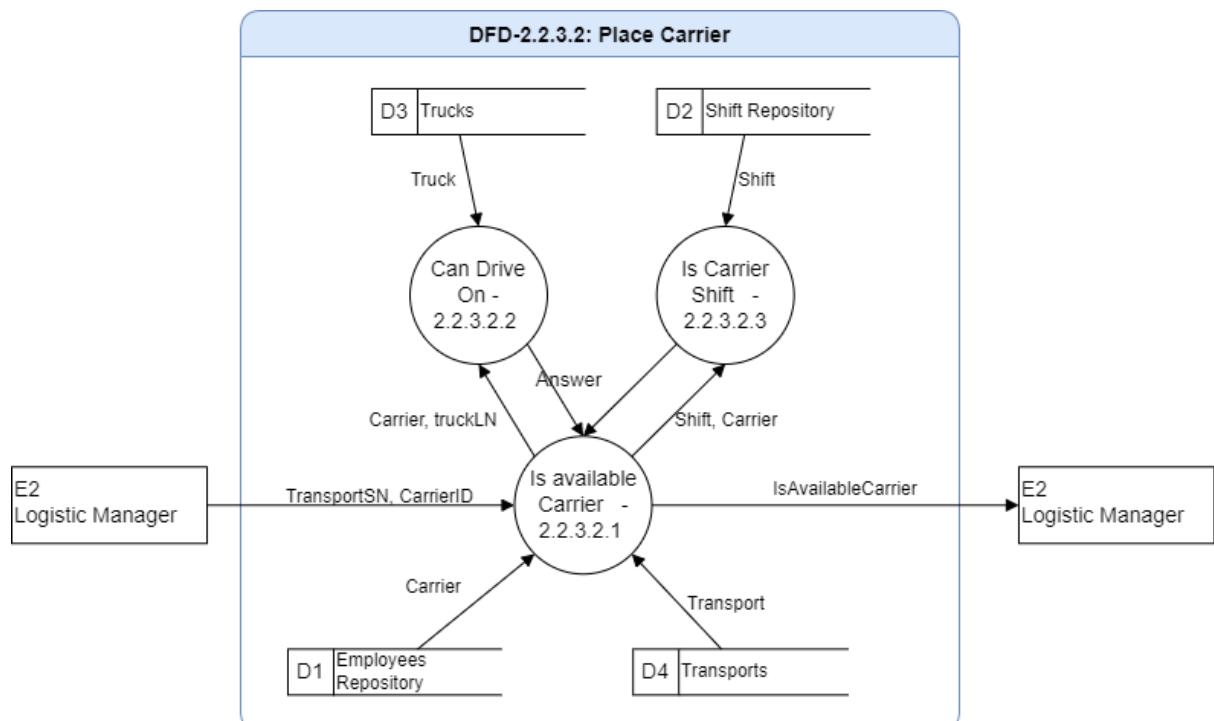
DFD – 2.2.3: Update Transport:



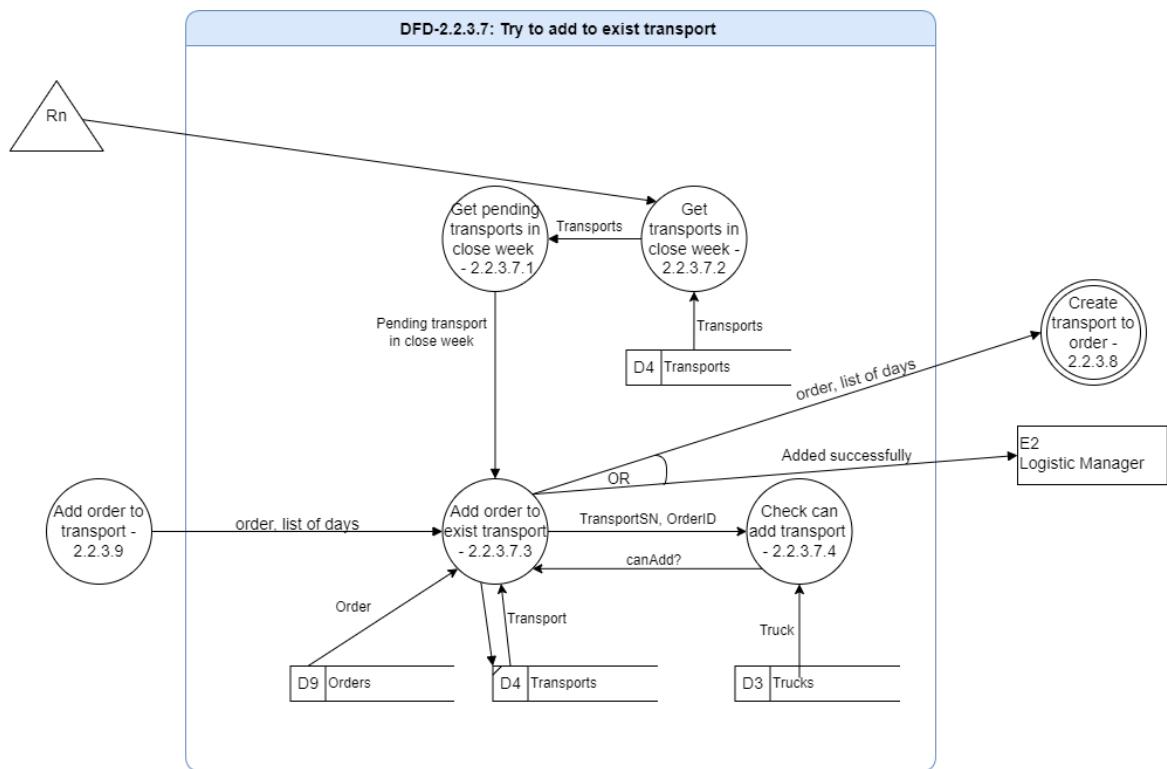
DFD – 2.2.3.1: Place Truck:



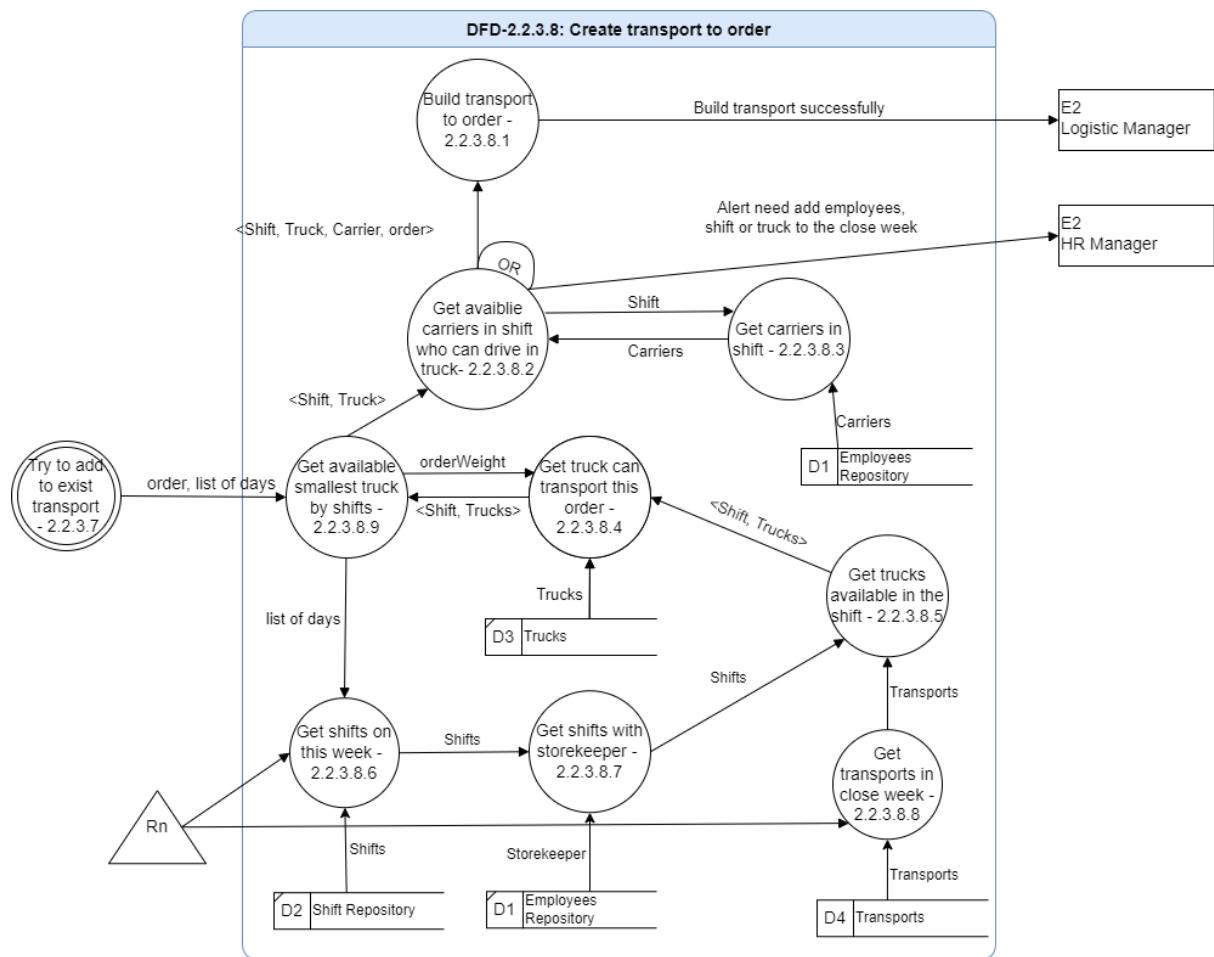
DFD – 2.2.3.2: Place Carrier:



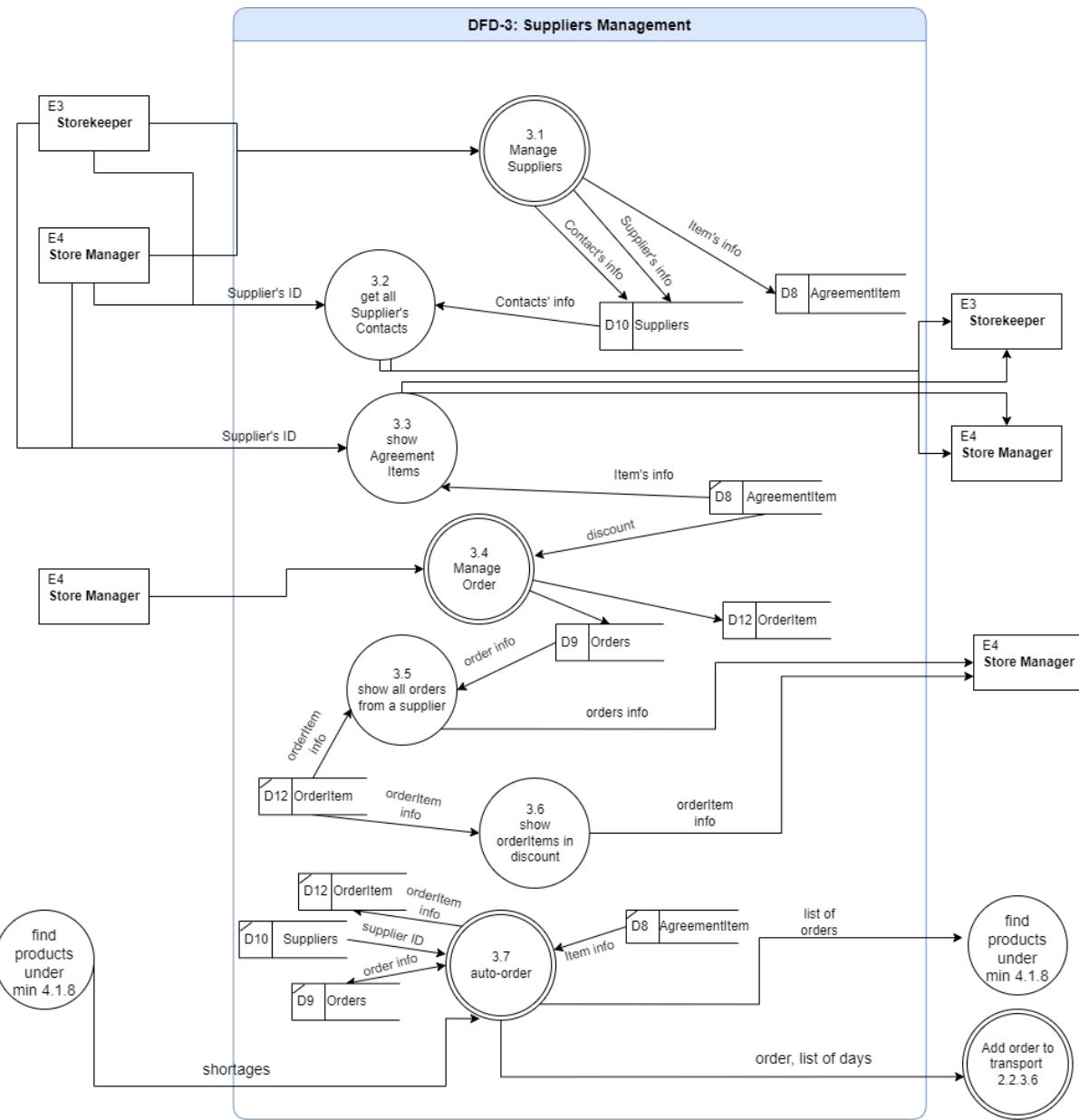
DFD – 2.2.3.7: Try To Add Ordre To Exist Transport:



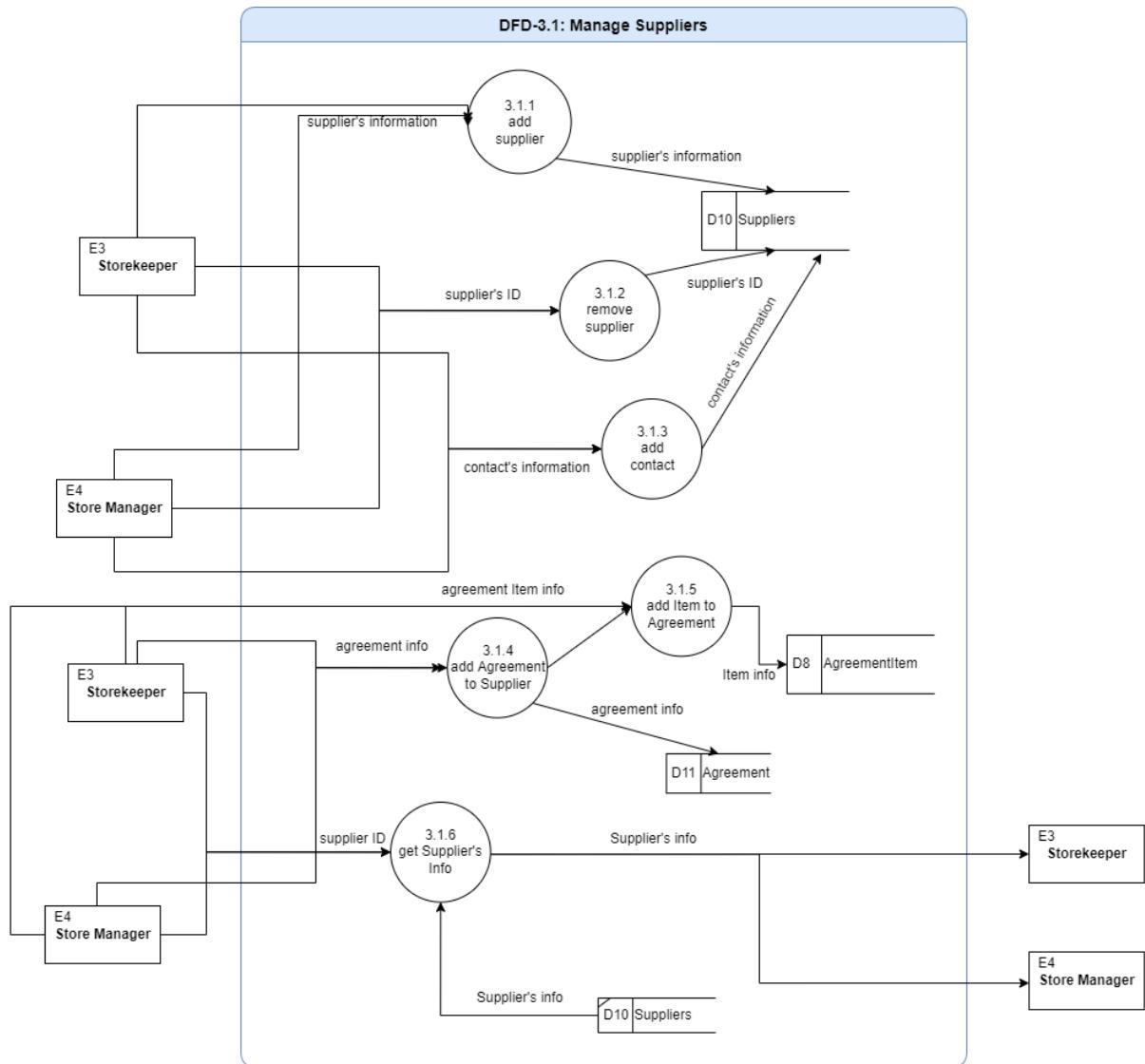
DFD – 2.2.3.8: Create Transport To Order:



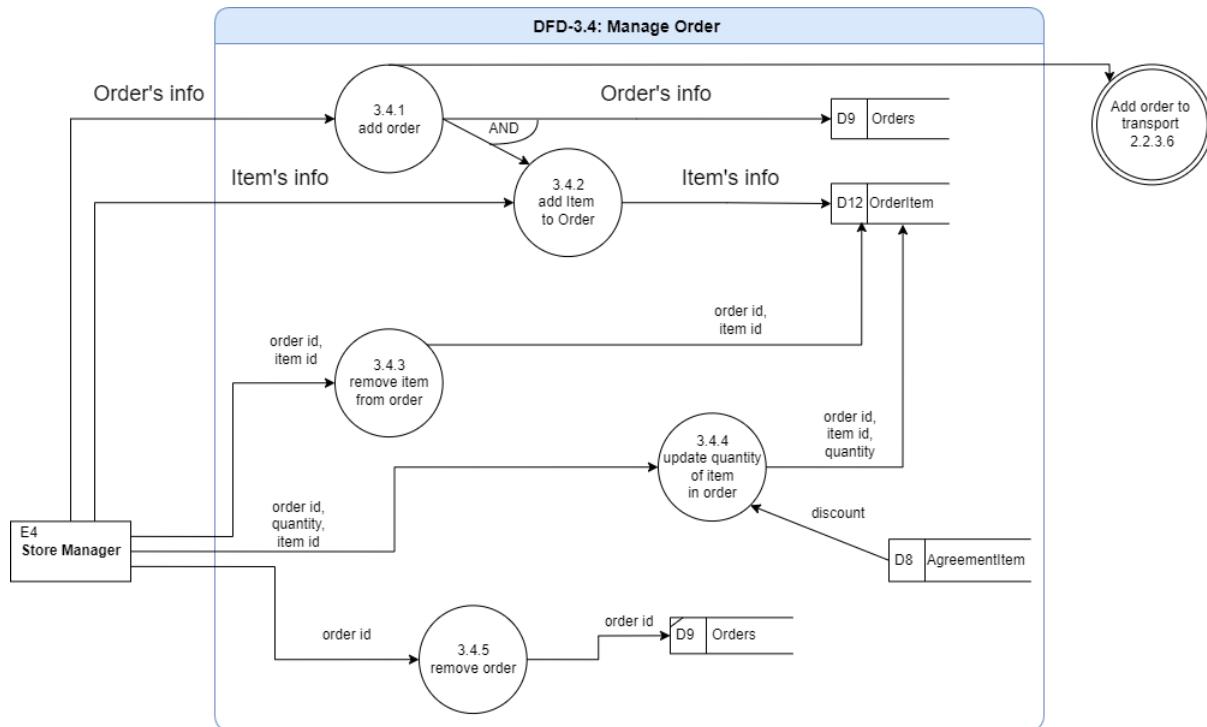
DFD – 3: Supplier Management:



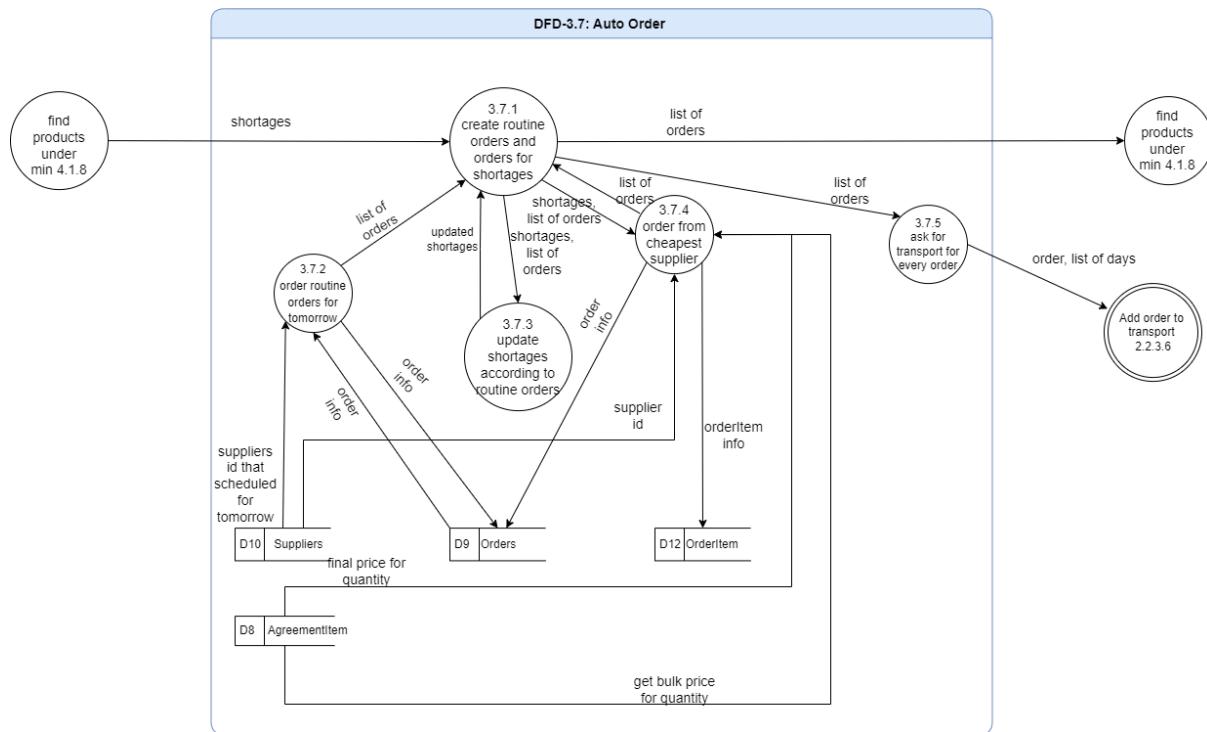
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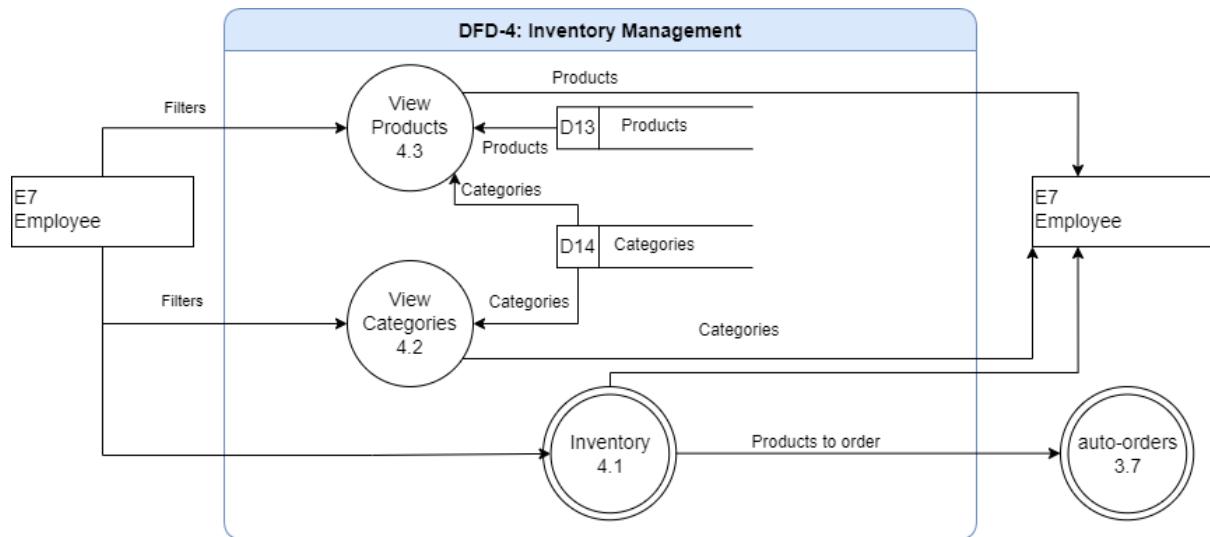
DFD – 3.4: Manage Order:



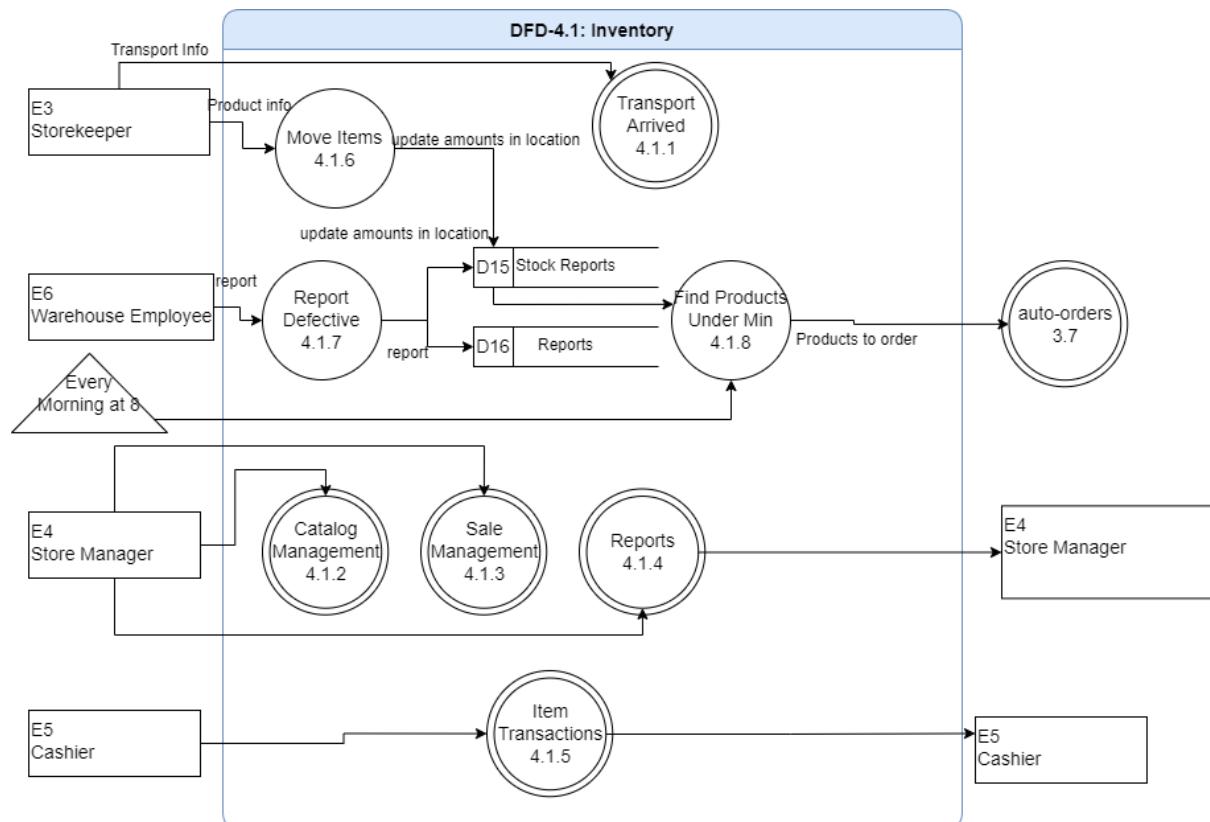
DFD – 3.7: Auto Order:



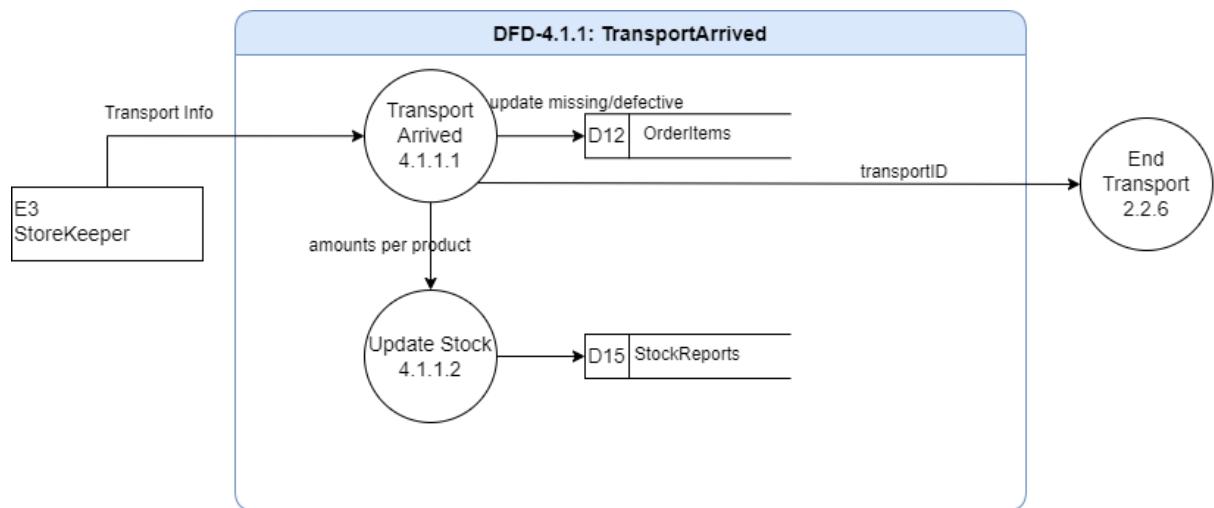
DFD – 4: Inventory Management:



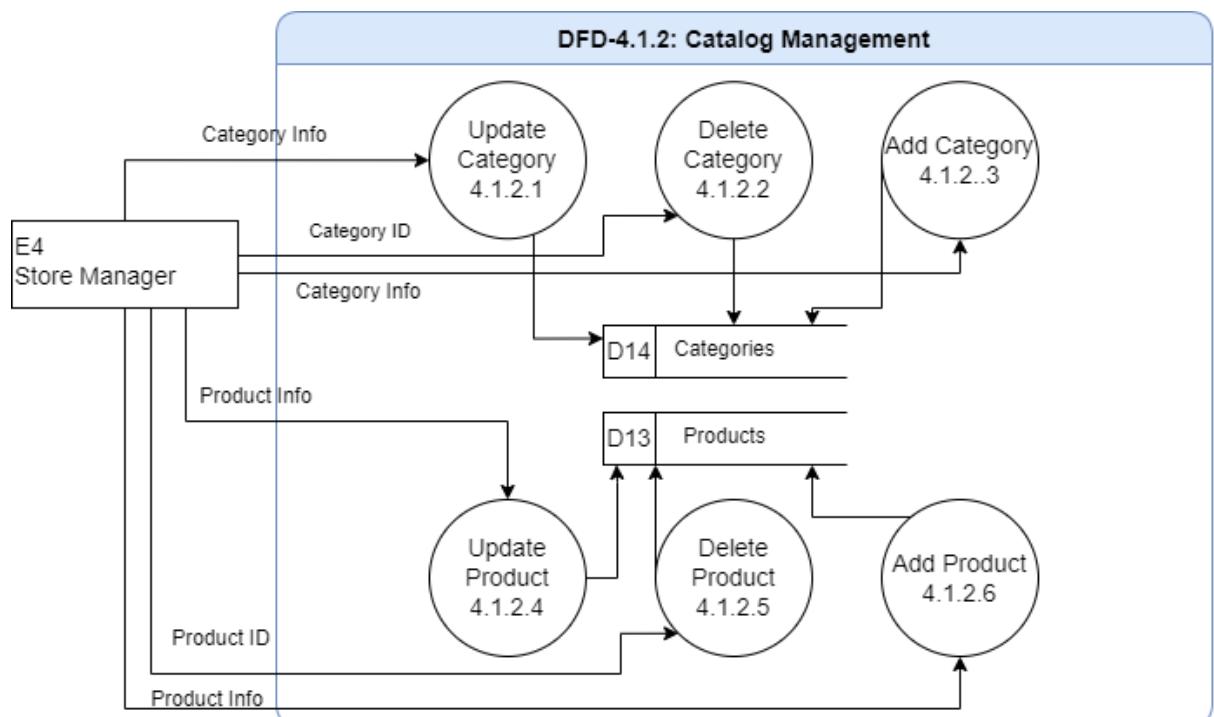
DFD – 4.1: Inventory:



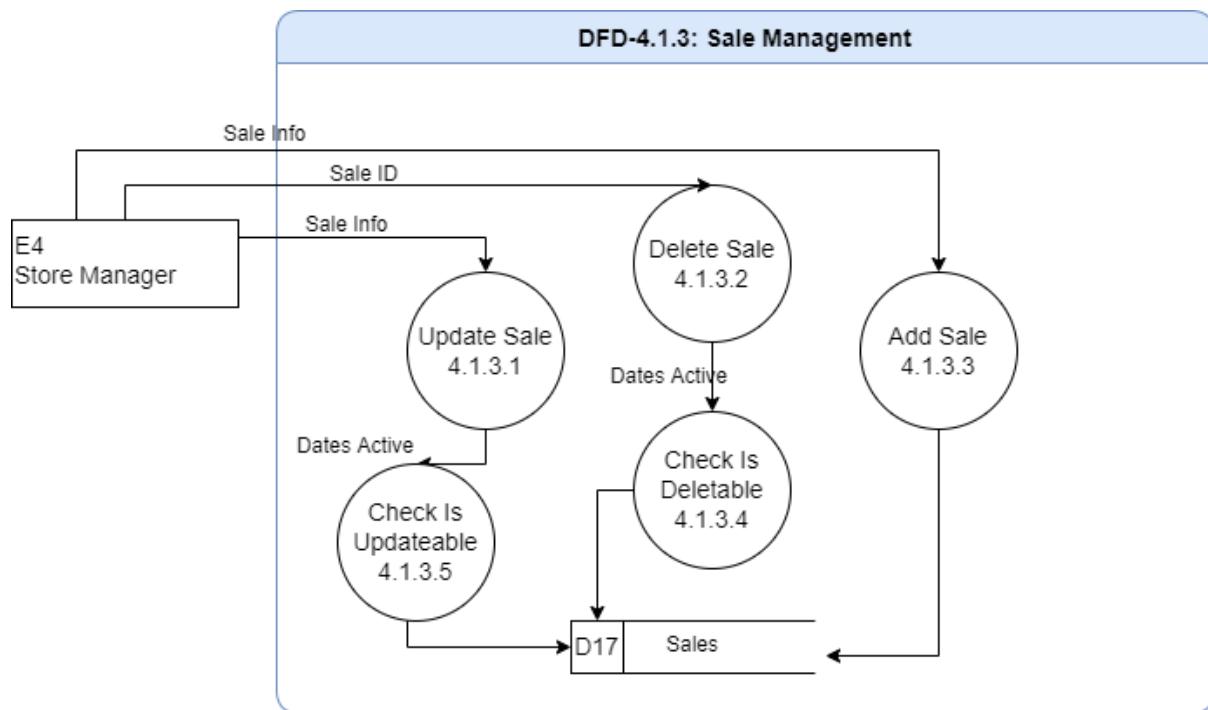
DFD – 4.1.1: Transport Arrived:



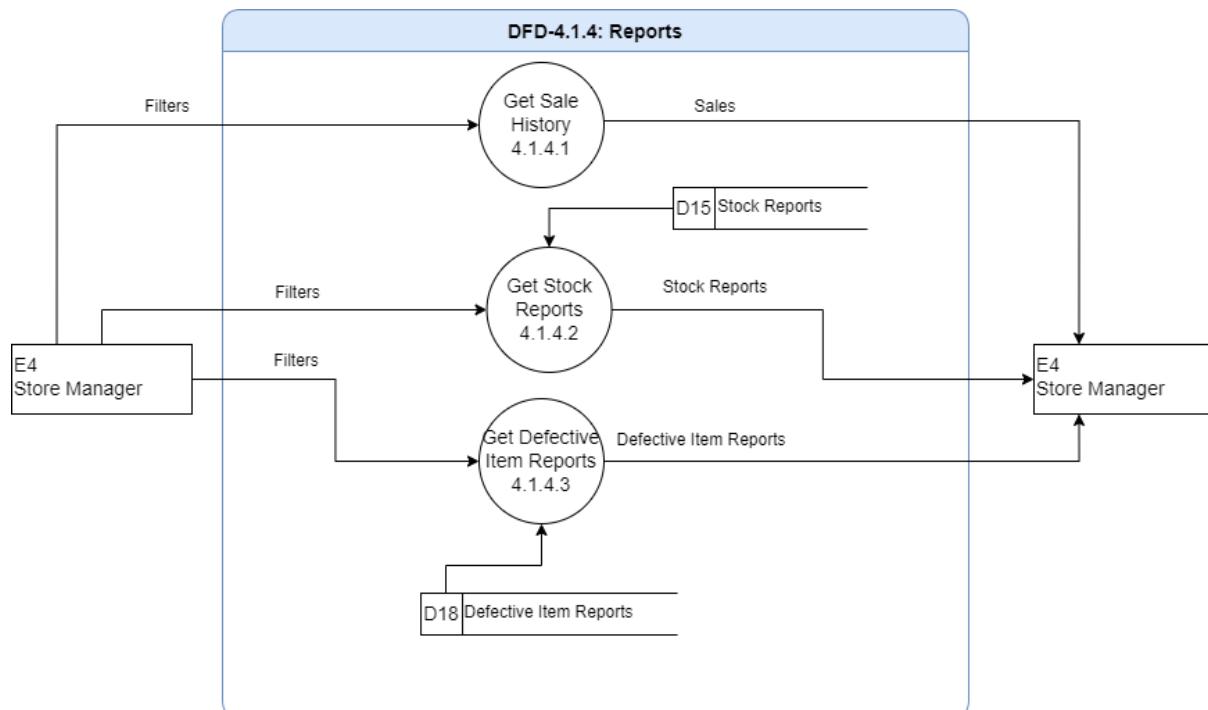
DFD – 4.1.2: Catalog Management:



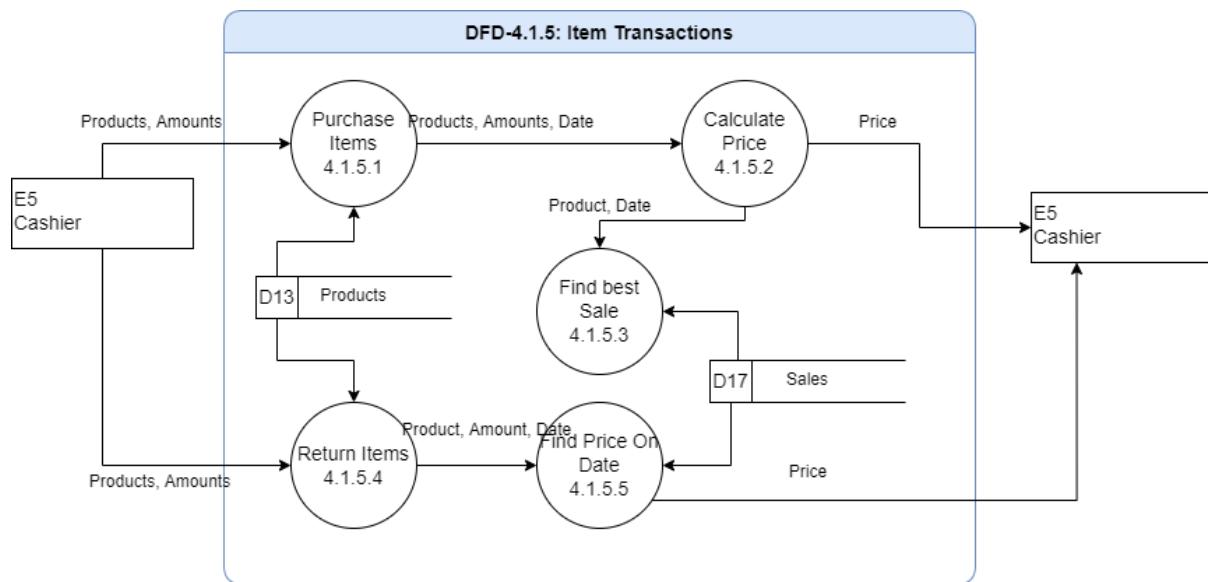
DFD – 4.1.3: Sale Management:

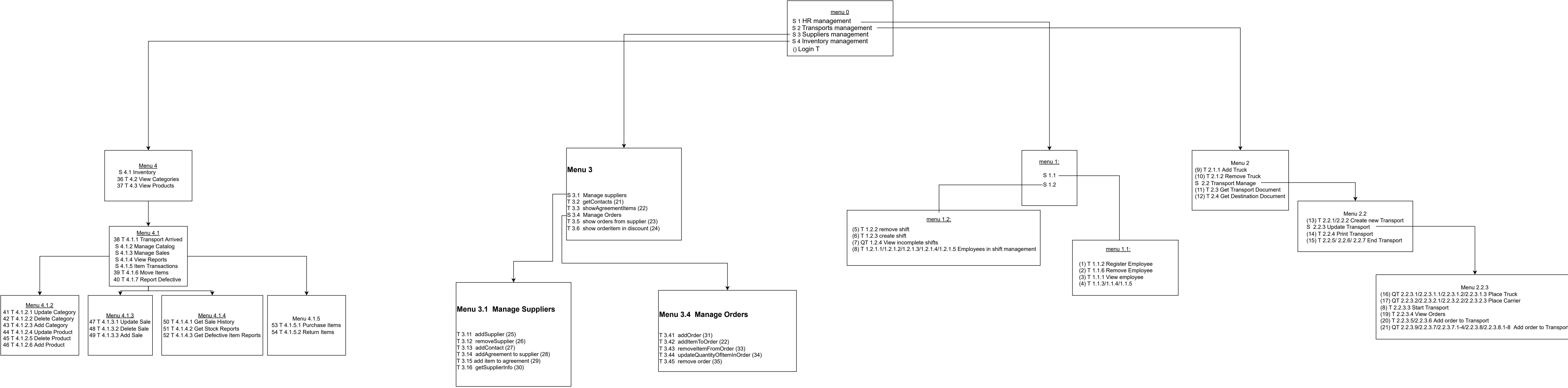


DFD – 4.1.4: Reports:



DFD – 4.1.5: Item Transactions:





נספח – פריטי עבודה 2

שינויים שבוצעו

קובץ דרישות:

מודול עובדים:

- הוספת דרישות לניהול הרשאות ופירוטם בהתאם לתחומי האחריות
שנקבעו

מודול הובלות:

- הוספת דרישת להעברת הודעות למנהל כוח אדם לגבי הובלות
קרובות

מודול מלאי:

- הוספת תחומי אחריות למחסנאי

כללי:

- הוספת דרישת לתמיכה מרובה משתמשים ממיקומות פיסיים שונים

תרשים מחלקות:

מודול עובדים:

- הסרת Constraint כתוצאה מהחלטת עיצוב למזג את האחריות
למשמרת. מורייד Coupling

מודול ספקים:

- שינוי הארגומנטים שמקבלת השיטה `orderItem` כתוצאה מהאינטגרציה עם מודול הובלות
- הוספה לשדה `status` כתוצאה מאינטגרציה עם מודול הובלות
- הורדת שדה `AgreementItem`, עכשו נלקח דרך אינטגרציה עם
מודול מלאי

מודול הובלות:

- הסרת מחלקות כתוצאה מהאינטגרציה עם מודול מלאי, שם המידע מנוהל בצורה מדוייקת יותר

מודול מלאי:

- שינוי הארגומנטים שמקבלת השיטה `orderArrived` כתוצאה מדרישת הרשותות שנוספה למחסנאי

תרשימי Col/Seq:

מודול עובדים:

- הוספת תרשימים `Login` והוספות לתהליכיים שדורשים התחברות תחיליה

מודול מלאי:

- שינוי תרשימים של `orderArrived`

תרשימים ERD:

- מיזוג התרשימים כתוצאה ממיזוג הרביעיות



“Superly”

Requirements specification

1. Functional Requirements

ID	Module	Description	Priority	Risk	Status	Feasable
1.	HR	The system MUST support management of employees only by the HR manager . Creation: Employee can be 1 of any employee type Updatable information: Name, Salary, Bank Details, Certifications.	MH	Low	Done	Yes
2.	HR	The system CANNOT allow creation of 2 employees with the same ID.	MH	Low	Done	Yes
3.	HR	The system MUST support management of licenses for carriers only by HR Manager .	MH	Low	Done	Yes
4.	HR	The system MUST store employee information on a DB	MH	Low	Done	Yes
5.	HR	The system MUST support management of shifts only by HR Manager . Updatable information: shift manager, counts, assigned employee IDs .	MH	High	Done	Yes
6.	HR	The system CANNOT allow creation of shifts with no shift manager	MH	Low	Done	Yes
7.	HR	The system SHOULD be allow setting of how many workers of each type each shift needs	NTH	Low	Done	Yes
8.	HR	The system CANNOT allow creation of shifts with no carriers, cashiers, storekeepers or sorters	MH	High	In Progress	Yes
9.	HR	The system MUST show which employees are available for each shift when scheduling	MH	High	Done	Yes
10.	HR	The system SHOULD show how many shifts each available employee has done the past month for each shift type	NTH	High	Done	Yes
11.	HR	The system MUST store shift history in DB	MH	Low	Done	Yes
12.	HR	The system SHOULD notify about upcoming incomplete shifts	NTH	Low	In Progress	Yes
13.	HR	The system Must require from the user to Login when it opens.	MH	Low	In Progress	Yes
14.	Suppliers	The system MUST support 3 kinds of suppliers (routine, by order, not transporting)	MH	Low	Done	Yes
15.	Suppliers	The system MUST save the supplier's information (id, bank account, paying agreement, contacts and contact's information)	MH	Low	Done	Yes
16.	Suppliers	The system MUST support management of supplier cards only by storekeeper and store manager .	MH	Low	Done	Yes
17.	Suppliers	The system MUST save if the supplier has fixed supplying days and when they are.	MH	Low	Done	Yes
18.	Suppliers	The system MUST save details about the supplied items (cost per item, cost when buying in bulk)	MH	Low	Done	Yes

19.	Suppliers	The system MUST show what items are purchased from each supplier	MH	Low	Done	Yes
20.	Suppliers	The system MUST give the corporate management storekeeper and the store manager the ability to edit the agreement's details (supplying days, prices, changing items)	NTH	Low	Done	Yes
21.	Inventory	The system MUST store the following product info: product ID, item name, category, price, weight, and manufacturer	MH	Low	Done	Yes
22.	Inventory	The system MUST store the following information about stock per each product: product ID, amount in each storefront, amount in each store warehouse, and each store's min amount	MH	Low	Done	Yes
23.	Inventory	The system MUST store the following information about sales per each product and category: active sales, passed sales, future sales, percent off in sale	MH	Low	Done	Yes
24.	Inventory	The system MUST send an alert to the storekeeper when product is getting under the minimum amount in a certain branch. specifying product ID and store ID	MH	Low	Done	Yes
25.	Inventory	The system MUST allow only the storekeeper to change the minimum and maximum value of each product in a branch.	MH	Low	Done	Yes
26.	Inventory	The system MUST be able to produce a report of all products in all branches that are below their minimum amount. The report should include the following: store ID, product ID, product name, product current amount in store, product current amount in warehouse, product current amount in the branch (store+warehouse), product minimum amount in the branch, product maximum amount in the branch	MH	Low	Done	Yes
27.	Inventory	The system MUST track amounts of product left in each location (each store and each warehouse), including: 1) buying product 2) removing damaged/expired products 3) moving products from the warehouse to the store 4) product has been returned to the store from a customer 5) product has been arrived from supplier.	MH	Low	Done	Yes
28.	Inventory	The system MUST be able to produce a report of all products in a chosen branch based on categories. The report should include the following: store ID, product ID , product name, category, product current amount in store, product current amount in warehouse, product current amount in the branch (store+warehouse), product minimum amount in the branch, product maximum amount in the branch.	MH	Low	Done	Yes
29.	Inventory	The system SHOULD be able to produce the history of the completed purchases from the suppliers, for a certain product. The history should include the following: StoreID, Supplier, Date, Amount, before discount price, after discount price, description.	NTH	Low	Done	Yes
30.	Inventory	The system MUST be able to produce the history of the completed purchases from the suppliers, for a certain product that was bought with a discount. The history should include the following: StoreID, Supplier, Date, Amount, before discount price, after discount price, description.	MH	Low	Done	Yes
31.	Inventory	The system MUST be able to create/cancel sales that apply to certain products and/or categories to specified dates. Sales	MH	Low	Done	Yes

	include: sale ID, percentage, start date, end date, Products IDs, categories IDs.				
32. Inventory	The system MUST be able to produce the history of the sales to customers by product or by category. The history should include the following: sale ID, percentage, start date, end date, Products IDs, categories IDs.	MH	Low	Done	Yes
33. Inventory	The system MUST be able to manage category (create, read, update, delete) only by storekeeper : update: change parent category, change name, change products in category	MH	Low	Done	Yes
34. Inventory	The system MUST be able to manage product (create, read, update, delete) only by storekeeper : update: change category, change name, change price, add to a certain store, remove from a certain store, add new supplier to product, remove supplier from product	MH	Low	Done	Yes
35. Inventory	The system MUST allow employees to report about damaged/expired products. The user will insert the following information: store ID, product ID, amount, user ID, description.	MH	Low	Done	Yes
36. Inventory	The system MUST be able to supply a report of damaged/expired products needs to be able to be sorted by store, product, category.	MH	Low	Done	Yes
37. Inventory	The system MUST be able to produce a report of damaged products/expired products/both products which were reported on certain range of dates. The report must include the following information: product ID, store ID, amount, user ID, description, date, expired/damaged.	MH	Low	Done	Yes
38. Inventory	The system MUST be able to add and to remove branches to and from the chain.	MH	Low	Done	Yes
39. Suppliers & Inventory	The system MUST support automatic orders, initiated whenever stock running low.	MH	Low	Done	Yes
40. Suppliers & Inventory	The system MUST support automatic orders in fixed times (routine).	MH	Low	Done	Yes
41. Suppliers & Inventory	The system MUST support that orders cannot be edited in the last 24 hours before the order's planned deliveries.	MH	Low	Done	Yes
42. Suppliers & Inventory	The system MUST support choosing the best supplier for a specific order, choosing the cheapest one.	MH	Low	Done	Yes
43. Suppliers & Inventory	The system MUST store the following order information: order id, store id, Supplier id, arrival and creation time, status, Products ids, Products amounts, original price, discount and final price.	MH	Low	Done	Yes
44. HR & Transport	The system MUSN'T allow carrying out transport when no storekeepers are present at the transport arrival time.	MH	High	In Progress	Yes
45. Transport	The system MUST support management of a transports documents in the transport management database only by the logistics manager .	MH	Low	Done	Yes
46. Transport	The system MUST provide to the carrier a destination	MH	Low	In	Yes

document for each destination.					Progress
47. Transport	The system MUST warn the logistics manager if the actual weight exceeds the maximum weight.	MH	Low	Done	Yes
48. HR & Transport	The system MUSN'T allow placement of a carrier without a proper license for the truck selected for transportation.	MH	Low	Done	Yes
49. Transport	The system MUST store the following transport info: transport ID, date, time of departure, truck number, driver name, weight of the truck, source and destinations.	MH	Low	Done	Yes
50. Transport	The system MUST store the following destination document info: document ID, transport ID, list of products provided in this destination.	MH	Low	Done	Yes
51. Transport	The system MUST store the following site info: site ID, address, phone number and name of the contact person.	MH	Low	Done	Yes
52. Transport	The system MUST store the following truck info: license number, model, net weight, maximum capacity weight.	MH	Low	Done	Yes
53. Transport	The system MUST support redesign the route in case of weight deviation only by the logistics manager .	MH	High	In Progress	Yes
54. Transport	The system MUST update the transport document about the redesign of the route only by the logistics manager .	MH	Low	Done	Yes
55. Transport	The system MUST support manage and order the transports only by the logistics manager .	MH	Low	Done	Yes
56. Transport	The system MUST store the following transport document info: date, time of departure, truck number, driver name, weight of the truck, source, destinations and about redesign if done.	MH	Low	Done	Yes
57. Transport	The system MUST support the redesign of downloading or replacing one of the destinations, or replacing a truck, or removing some of the products from the truck only by the logistics manager .	MH	High	In Progress	Yes
58. Transport	The system MUST provide delivery of a product when there is a shortage.	MH	High	Backlog	No
59.	NEW Requirements				
60. Suppliers & Transport	The system MUST match for every new Order a transport.	MH	High	Done	Yes
61. Suppliers & Transport	The system MUST schedule the transport for the nearest appropriate date.	MH	High	In Progress	Yes
62. Transport & HR	The system MUST alert the HR manager if there is no appropriate date for the execution of transport in the coming week.	MH	High	In Progress	Yes
63. Suppliers & HR	The system MUST allow cancelation of an order only by HR-manager or Storekeeper or Logistic manager	MH	Low	In Progress	Yes
64. Inventory	The system MUST allow only the storekeeper to confirm arrival of orders to the warehouse.	MH	Low	Done	Yes
65. Inventory	The system MUST allow only the storekeeper to update quantities of products in stock according to the arrived order.	MH	Low	Done	Yes
66. Inventory	The system MUST allow only the storekeepers to report defective / expired / missing products in an order that has	MH	Low	Done	Yes

	arrived (the report will be documented, and the rest of the products will be updated in the inventory system).				
67. Suppliers	The system MUST allow ordering a product from a supplier according to it's supplier ID.	MH	Low	In Progress	Yes
68. HR & Inventory	The system MUST allow inventory management only by storekeeper .	MH	Low	Done	Yes
69. HR & Suppliers	The system MUST allow only the storekeeper to order from suppliers.	MH	Low	Done	Yes
70. HR& Transport& Suppliers& Inventory	The system MUST allow the store manager to Produce reports and view all the data.	MH	Low	In Progress	Yes
71. System	The system MUST support multiple users at the same time. These users may log in from different physical locations	MH	Low	In Progress	Yes
72.					
73.					

2. Non-Functional Requirements

ID	Module	Description	Priority	Risk	Status	Feasible
1.	Inventory	The system MUST support each product belonging to exactly one category, and each category having exactly one parent category or none, but can have any number of sub-categories. (sub-category and parent category are in a two-way connection)	MH	Low	Done	Yes
2.	Transport	The system MUST support weigh of the truck before the truck leaving the source.	MH	Low	Done	Yes
3.	System	The system CAN support interaction through graphical user interface	NTH	Low	In Progress	Yes

Appendix A Terms

Table 1: Terms

#	Term	Description
1.	Management	Set of action which include creation, reading, editing (information) and removal of defined class.
2.	Employee	Person with work contract for working for ‘Superly’
3.	Employee information	ID, Name, Bank details, Salary, Employment conditions, Starting date, Certifications
4.	Employee types	Cashier, Storekeeper, Carrier, Sorter, HR Manager, Logistics Manager, Transport Manager
5.	Shift	Concept used to describe a fixed work period.
6.	Shift Information	Date, Shift Type, Shift Manager’s ID, Count of Employees Needed for each Employee Type, Assigned Employee ID’s for each Employee Type
7.	Shift types	Morning shift, Evening shift
8.	Constraint	Concept used to describe when an Employee is available for work
9.	Constraint Information	Date, Shift Type, Available Employees for the Shift
10.	Target amount	The number of items needed for certain product in a specific store after it gets under its minimum amount.
11.	License types	B, C, C1, C + E
12.	Truck model	Van, Semi-Trailer, Double-Trailer, Full-Trailer.
13.	Shipping areas	South, North, East, West, Southwest, Southeast, Northwest, Northeast.
14.	Transport	Delivering products from supplier to destination.
15.	Redesign	When the transport exceeds the possible weight for it the transport returns to redesign.
16.	Transport Document	A document describing the transport after it is completed.
17.	Destination Document	A document describing the products delivered in a particular shipment to the destination.
18.	Shortage	When inventory runs out and exceeds the minimum quantity set for the product.
19.	Appropriate date	The closest date that possible according to the supply days of the supplier and to the carrier's schedule.
20.	Supplier card	Contains: name, address, bank number, contacts, manufacturers, paying agreement.
21.	Product supplier ID	The ID this product has at the supplier system.

Appendix B Open Questions

Table 3: Questions

#	Topic	Issue
1.	Document	Will there be an additional need for the documents?
2.		
3.		

Appendix C Assumptions

Table 2: Assumptions

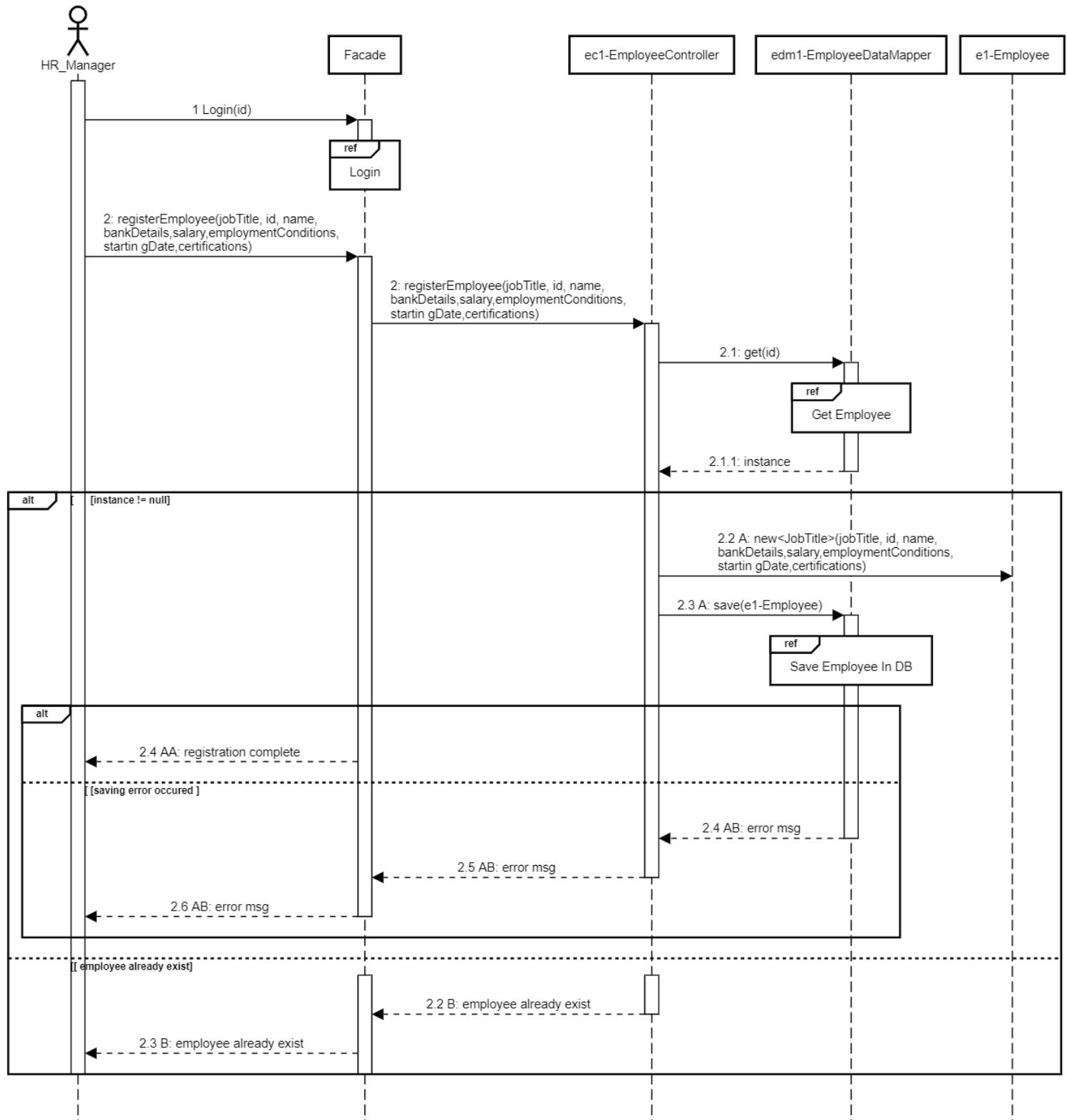
#	Topic	Assumption
1.	Suppliers	The contact's info is only phone number and name.
2.	Suppliers	We can't change orders from by order suppliers in the last 24 hours before the shipment.
3.	Suppliers	A supplier has only one type of agreement, from : by order, routine, not transporting.
4.	Suppliers	When stocks running low, we choose the cheapest supplier to order from, not considering his arrival time.
5.	Suppliers	We can add new supplier for the system without agreement. (Maybe we want just to save his information for future deals).
6.	Suppliers	We assume that when adding an item to agreement, the supplier manager knows both the id this item has at the supplier catalog and the id this item has at inventory.
7.	Inventory	There is predefined target amount per product per store which is above the min amount, such that when creating an order because of low stock the order amount should be target-min
8.	Suppliers+Inventory	The System is shut down at the end of each workday, and turned on at the beginning of the day. At the beginning of each day we send the suppliers the updated amounts for the next day's orders if needed.
9.	Suppliers+Inventory	When a delivery arrives at the warehouse, the orderID and supplierID is known (attached to the driver's receipt)
10.	Suppliers+Inventory	Each supplier can have different ID for the same product (For example: Bamba can have ID 1 in Superly, ID 5 in supplier 1 and ID 1 in supplier 2)
11.	Suppliers	The "best" supplier is the cheapest one regardless to arriving time.
12.	Suppliers+Inventory	Printing an order on screen equals to sending the order to the corresponding supplier.
13.	Suppliers+Inventory	Sending an order that has already been sent to a supplier equals to informing the supplier about updating the order.

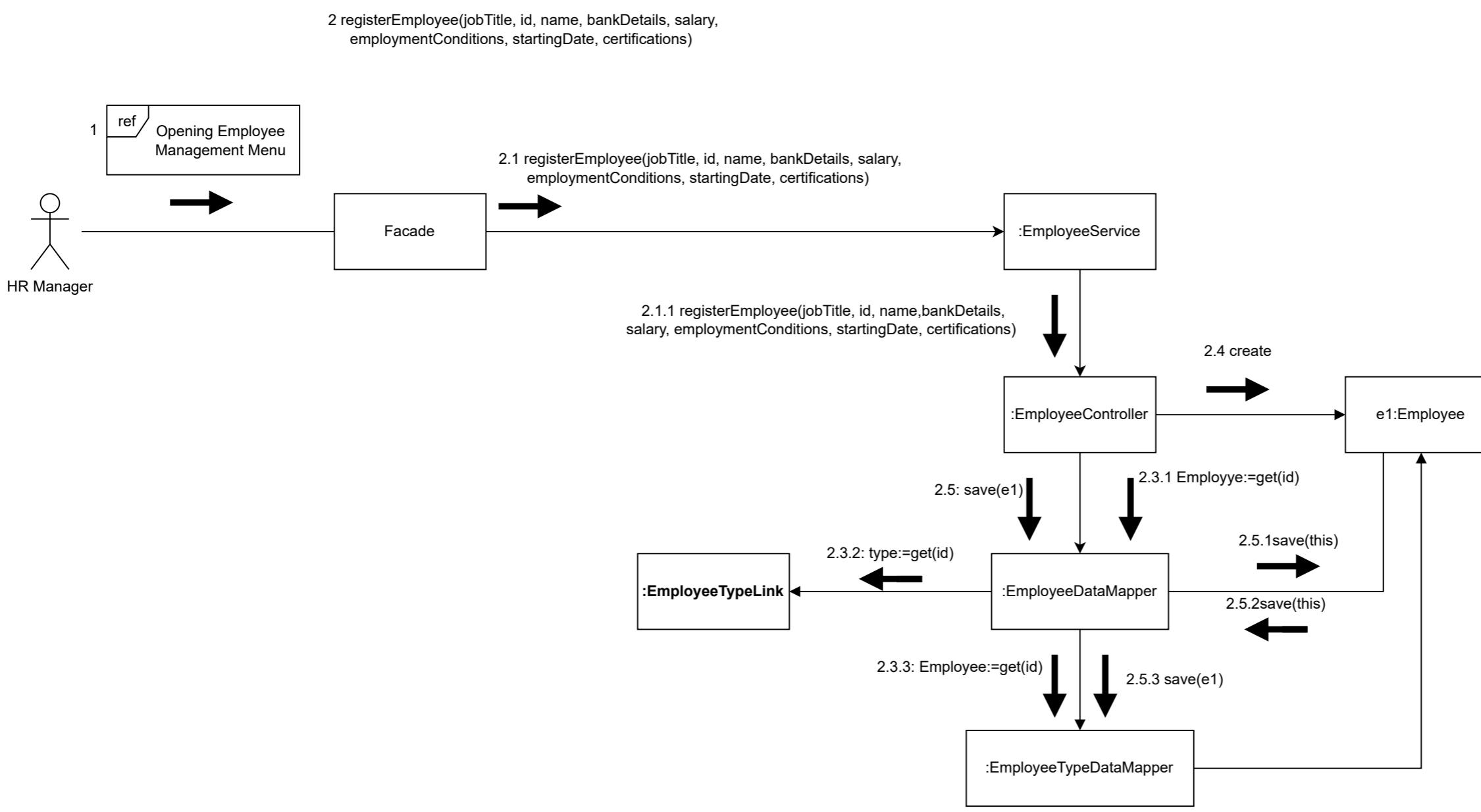
Version History

Table 2: Version History

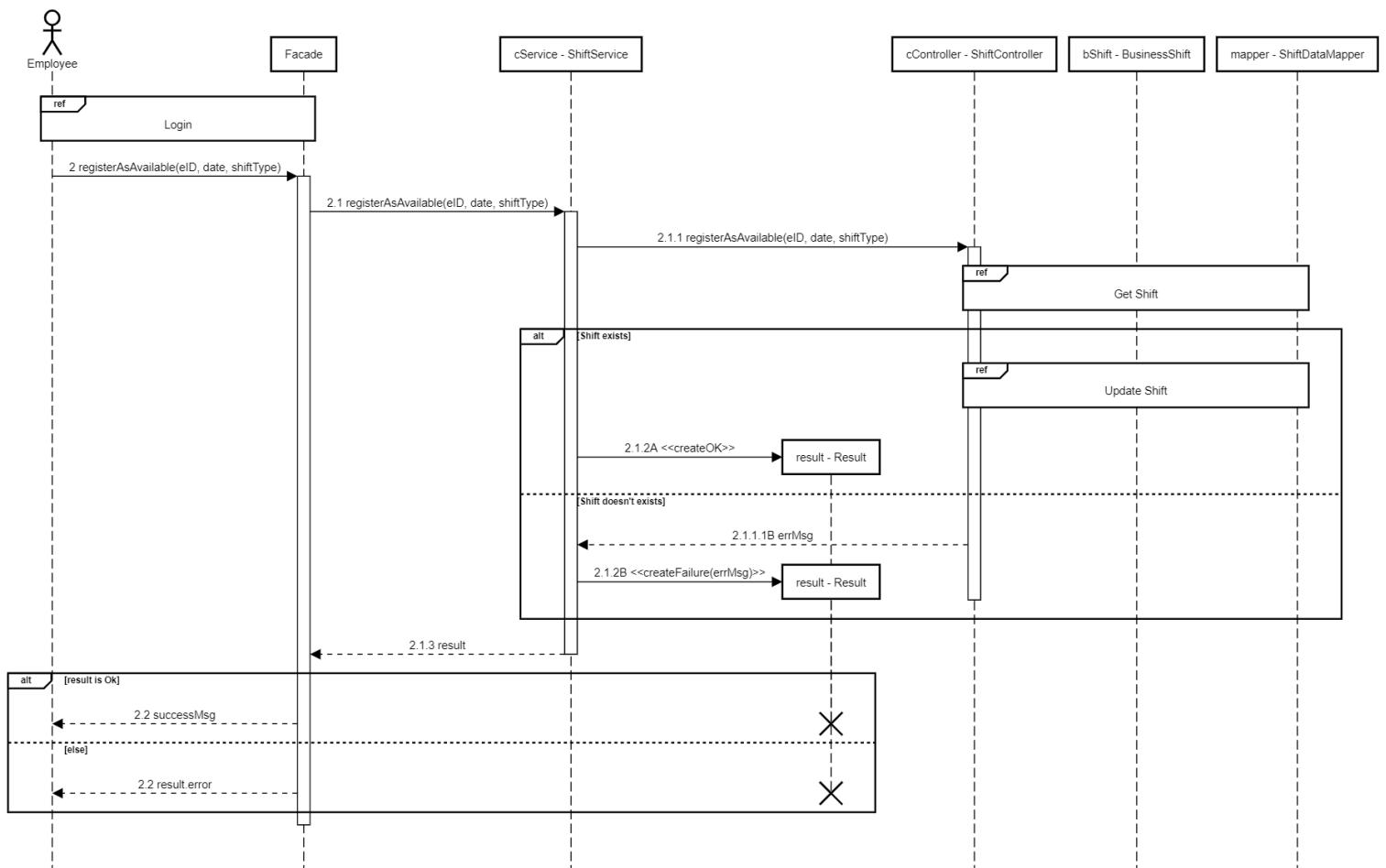
Date	Author	Remarks
25/04/2022	Roi Tiefenbrunn	First draft
09/05/2022	Yonatan Diga	Added suppliers & Inventory requirements and suppliers assumptions.
11/05/2022	Yonatan Diga	Improved requirements
14/05/2022	Tomer Ravkaie	Improved Requirements and Assumptions
15/05/2022	Roi Tiefenbrunn	Deleting of non-functional reqs for HR-module Adding term 'Employee', 'Employee Information', 'Employee types', 'Shift', 'Shift Information', 'Shift Types' Adding requirements 12, 42
15/05/2022	Roi Tiefenbrunn	Completing Requirements 1, 4, 5, 11 Adding Requirement 2 Adding the terms 'Constraint', 'Constraint Information' Removed Requirement 7
15/05/2022	Chai-Shalev Hadad	Add transport requirements. Fix the incorrect requirements. Add terms and open question.
02/06/2022	Yonatan Diga	Added requirements for assignment 3
03/06/2022	Yonatan Diga	Updated permissions.
11/06/2022	Yonatan Diga	Updated requirements.
12/06/2022	Roi Tiefenbrunn	Added multi-user and GUI requirements as they are requested by the client

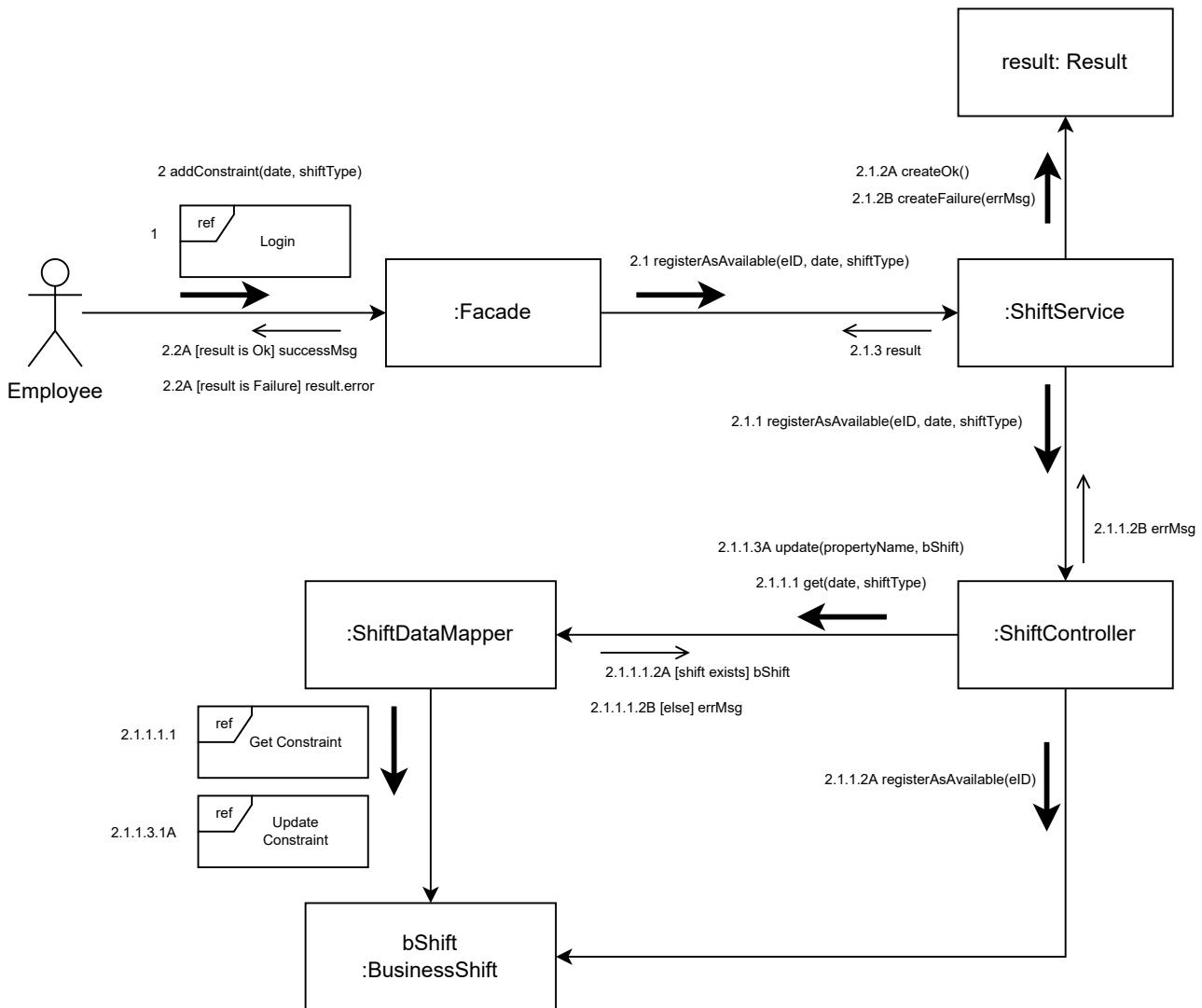
New Employee Registration



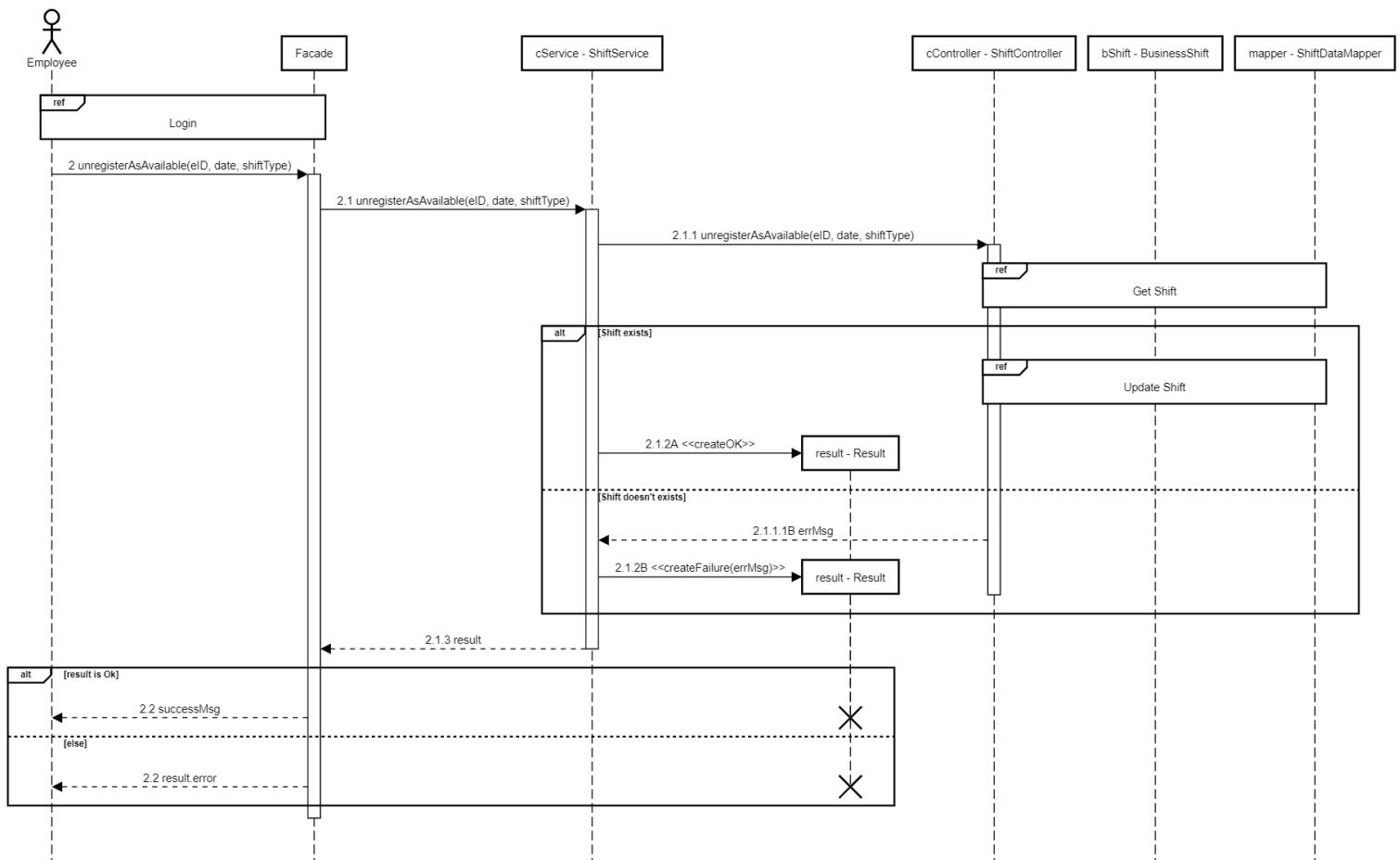


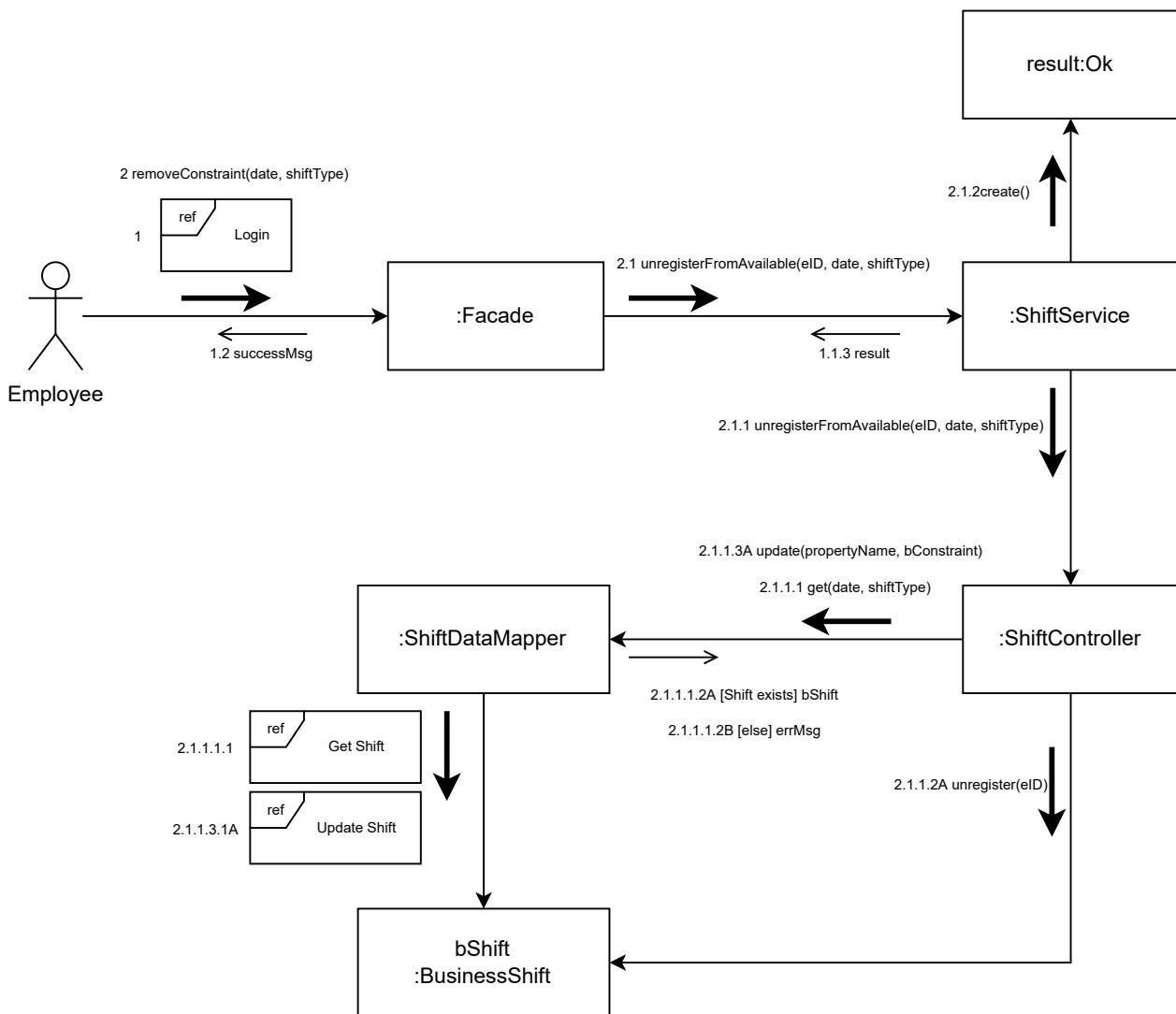
Adding Constraint



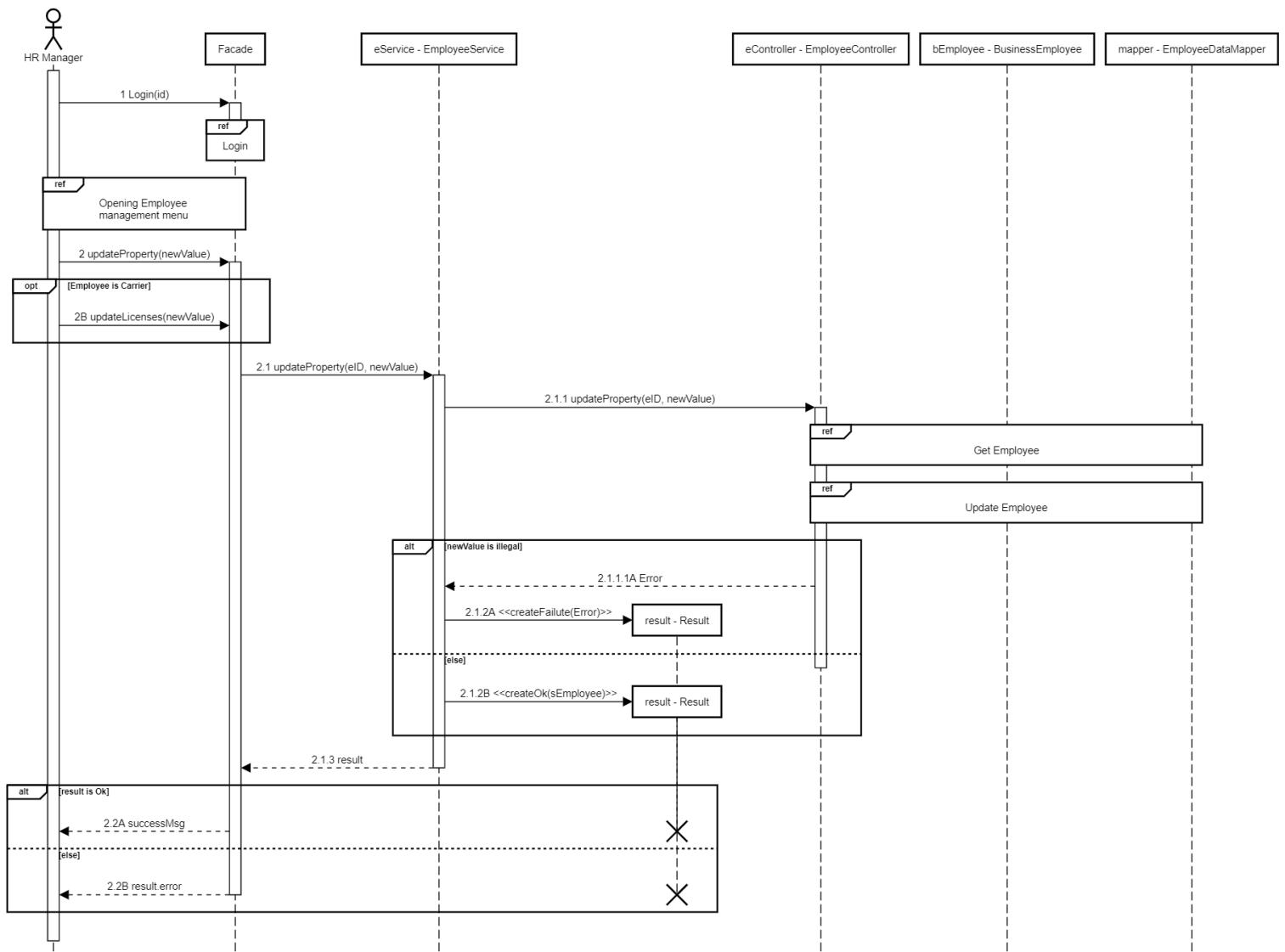


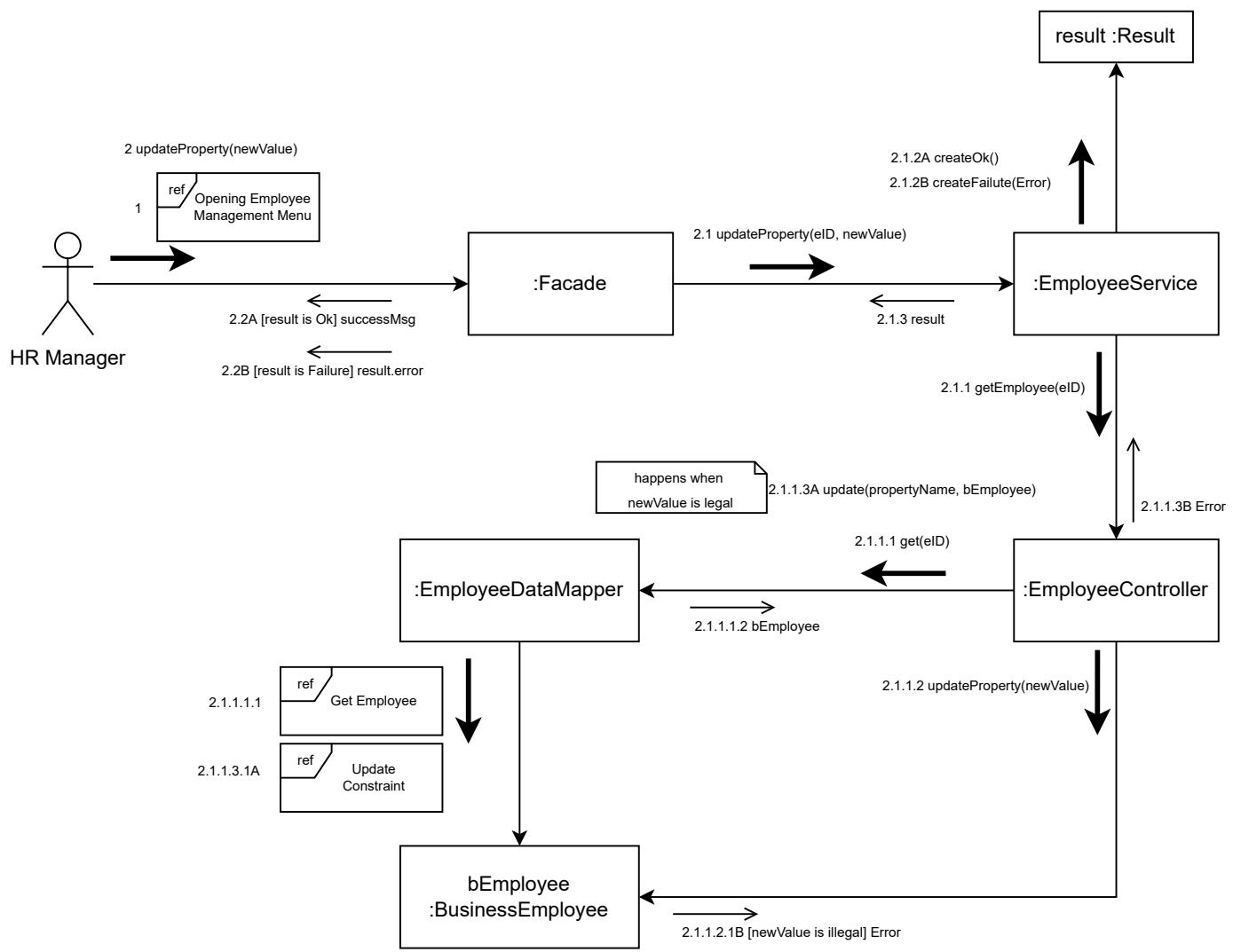
Adding Constraint

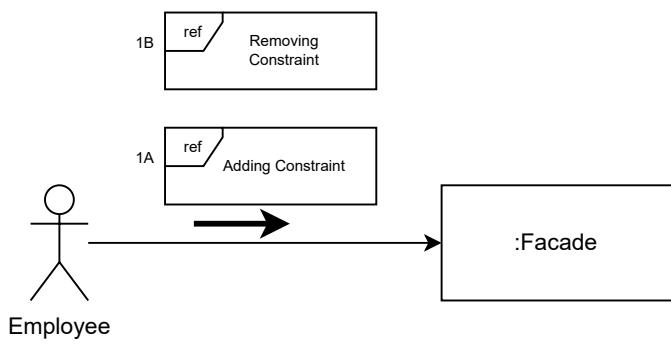




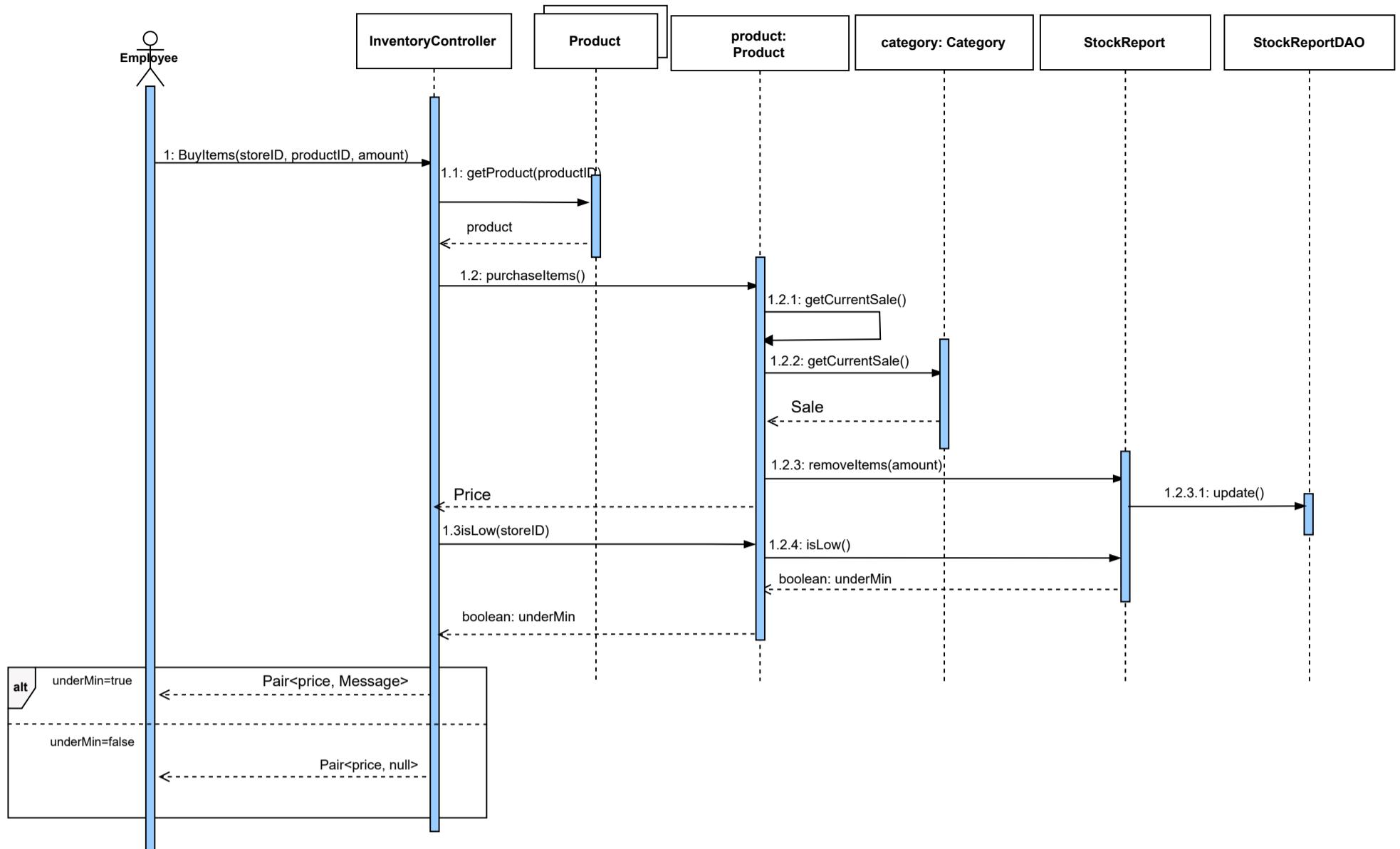
Updating Employee Details

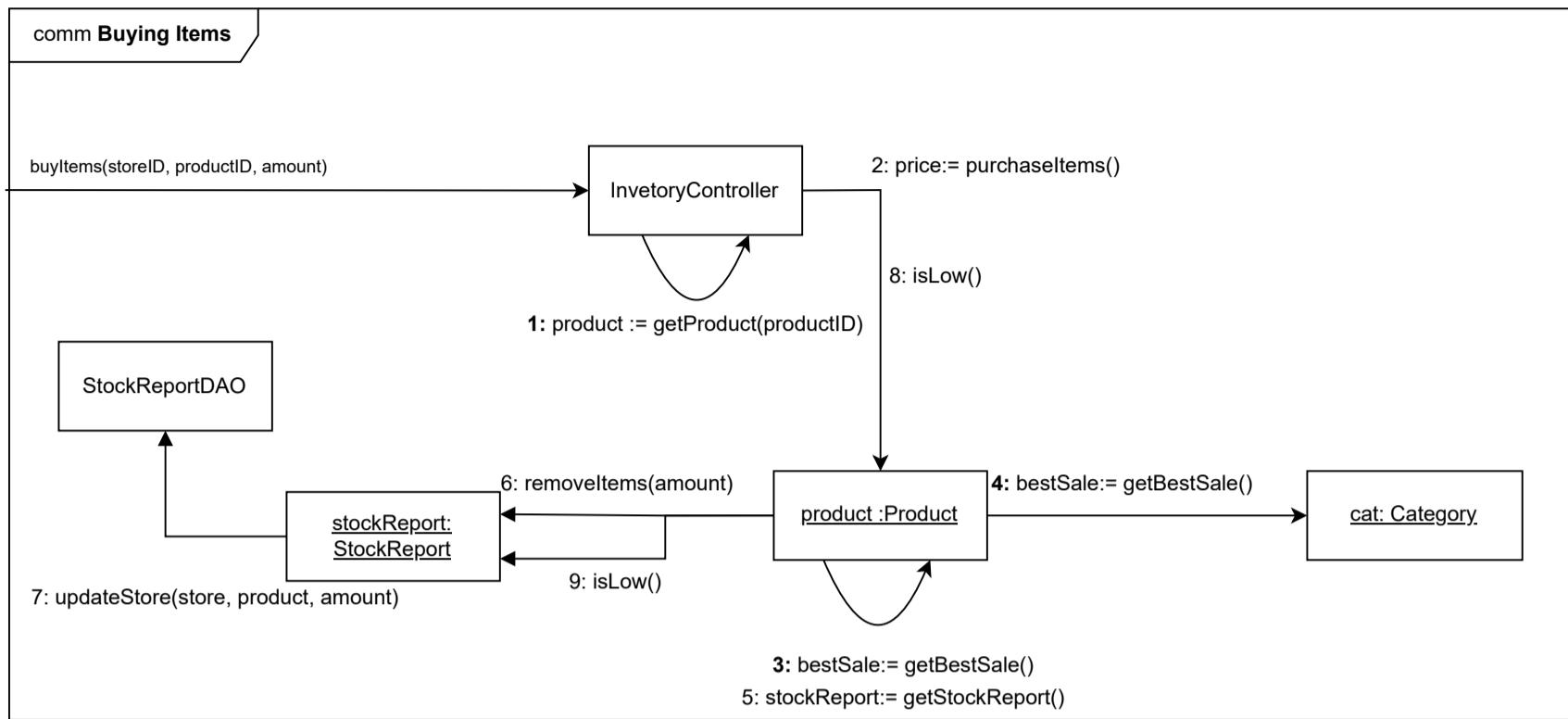




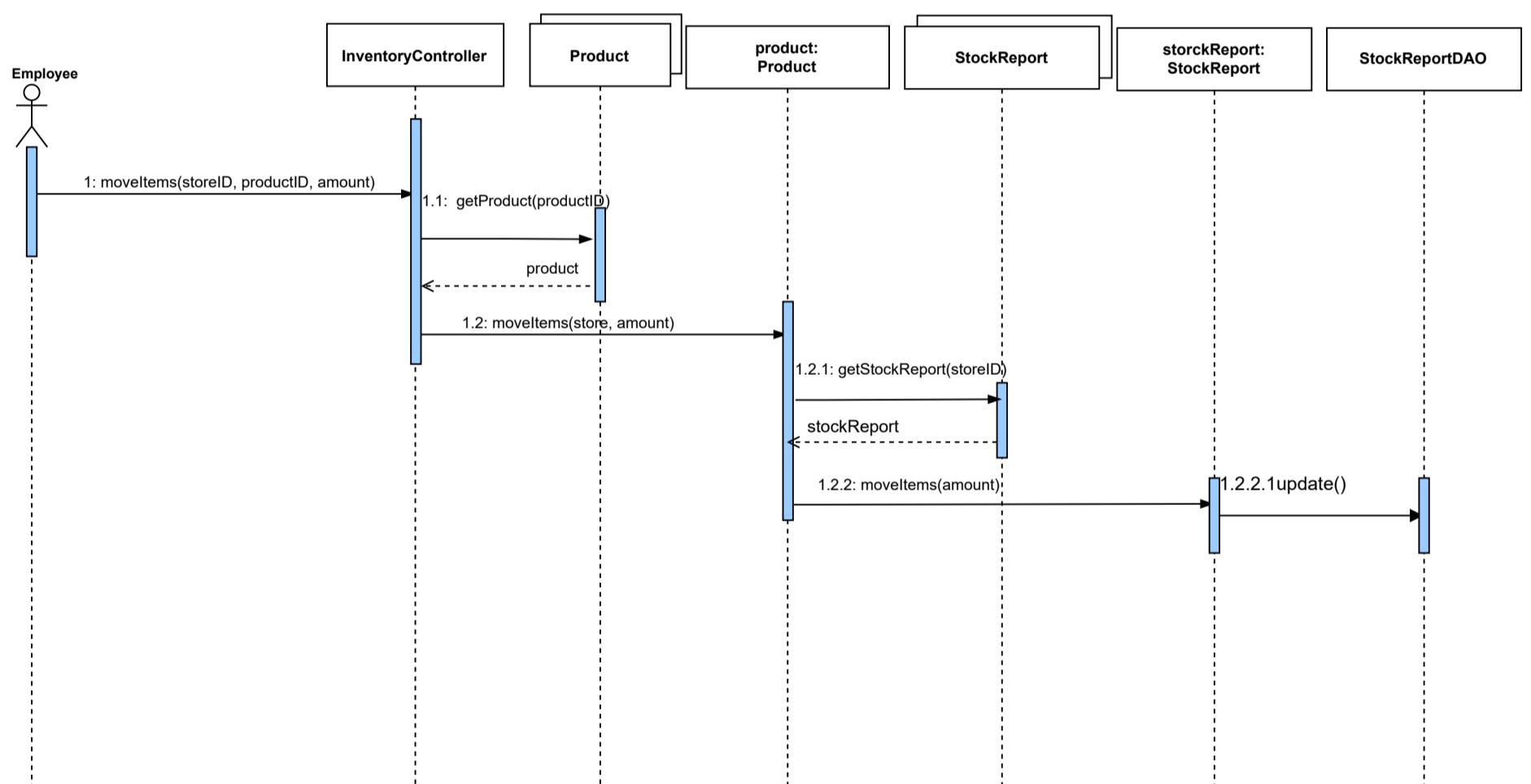


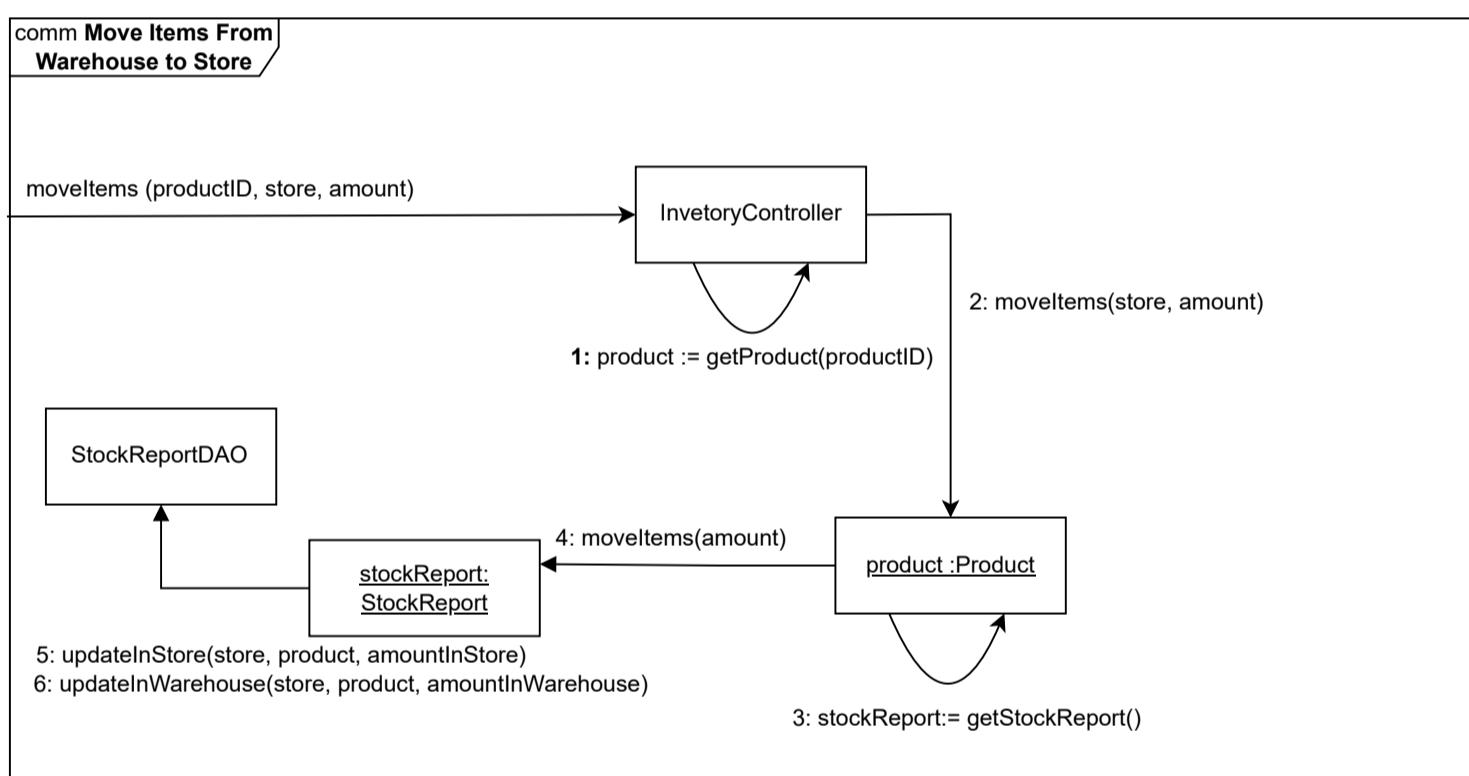
Buying Items



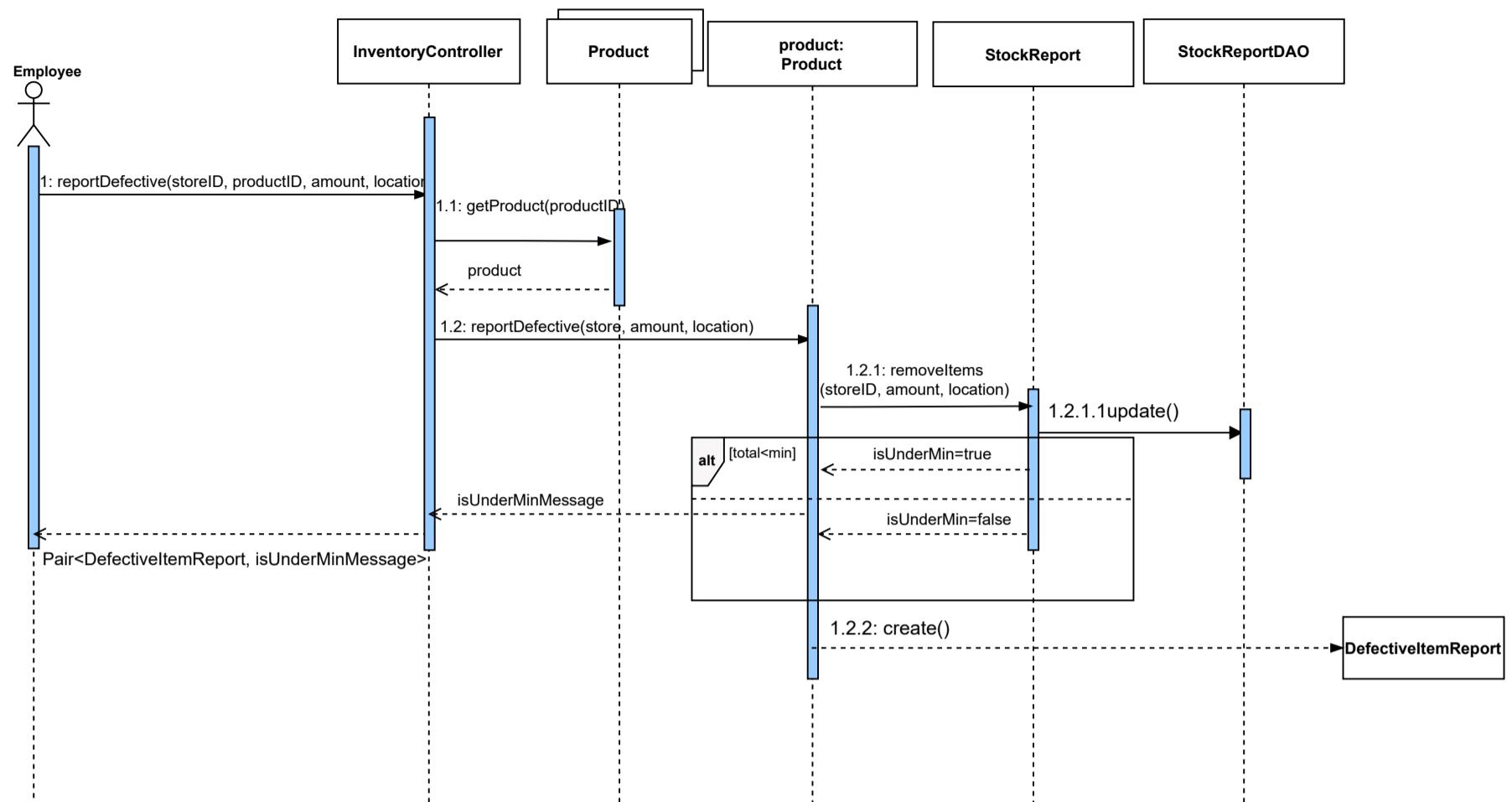


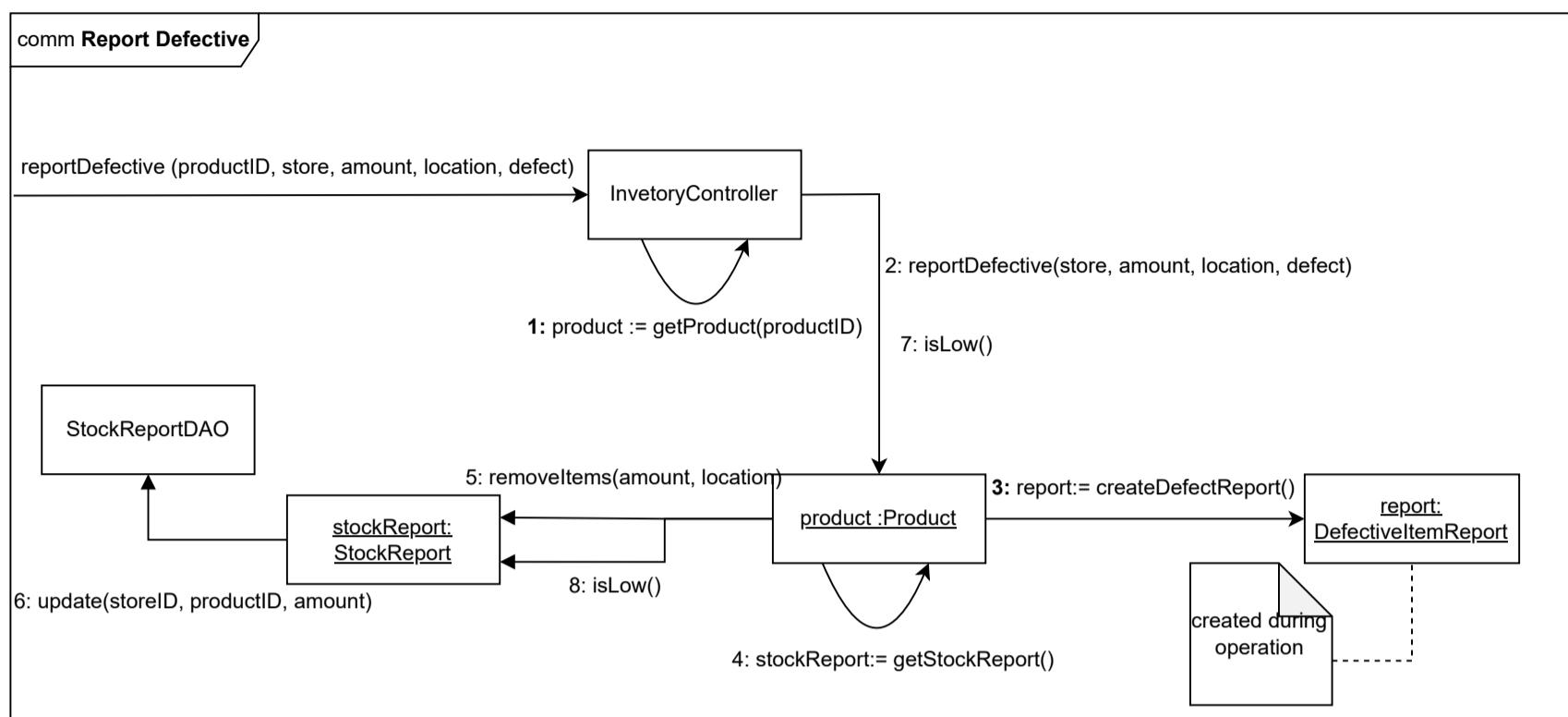
Move Items from warehouse to store



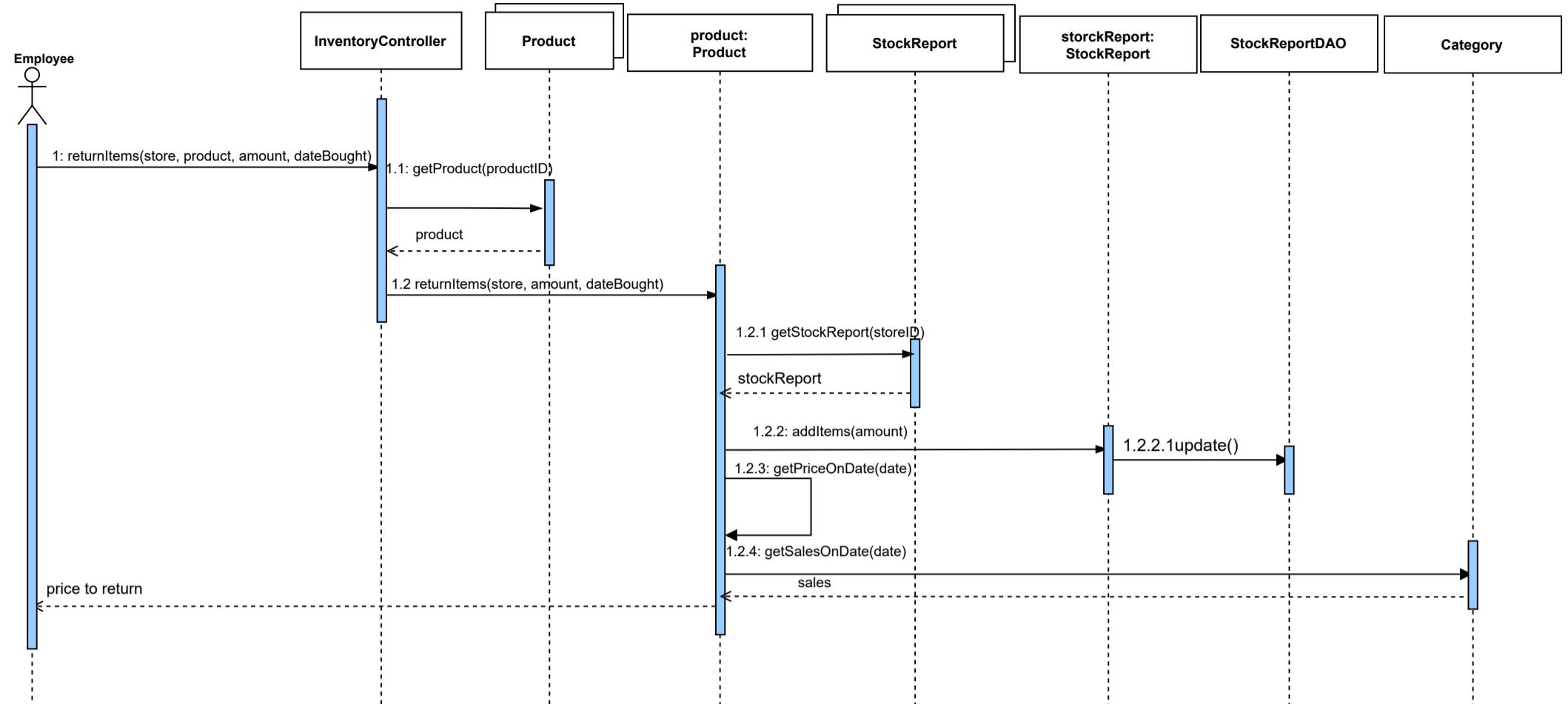


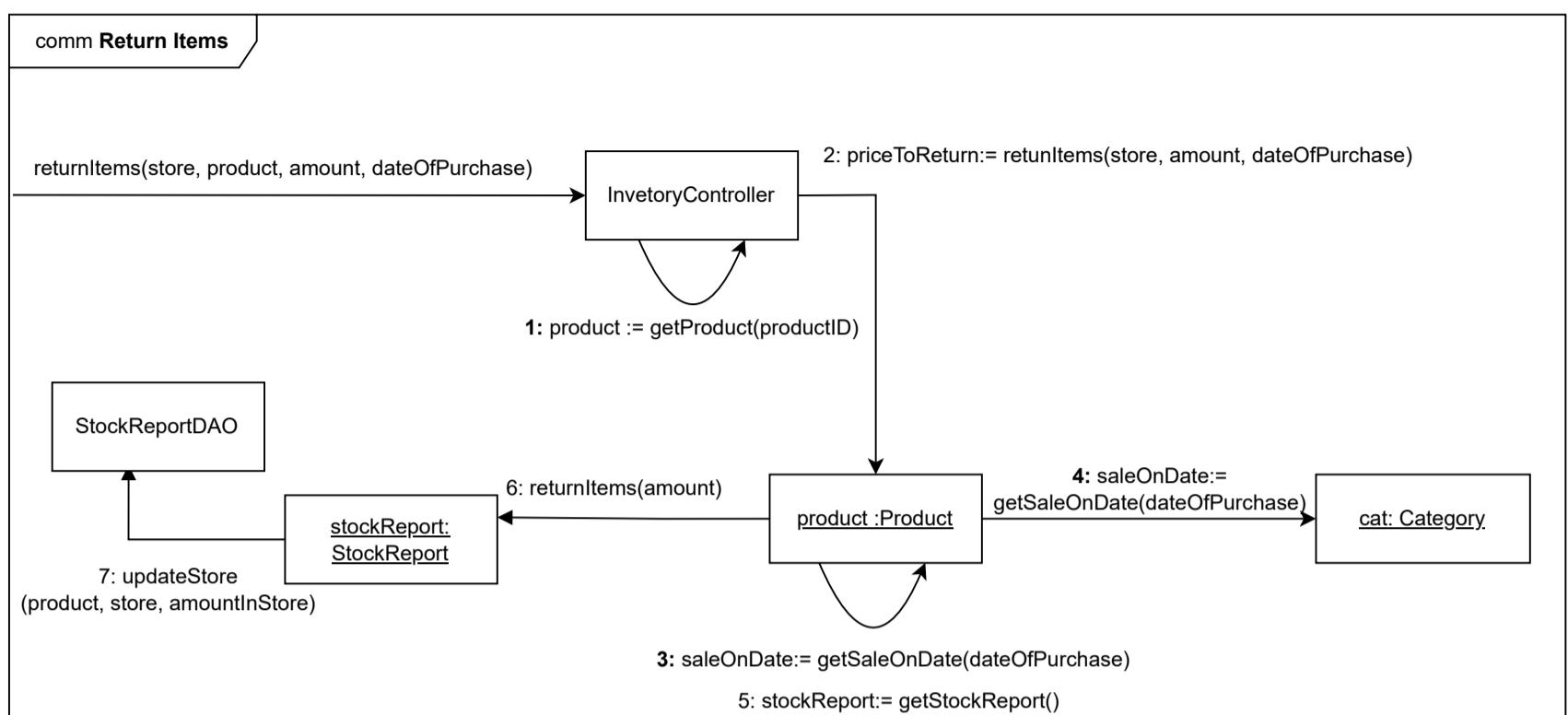
Report Defective

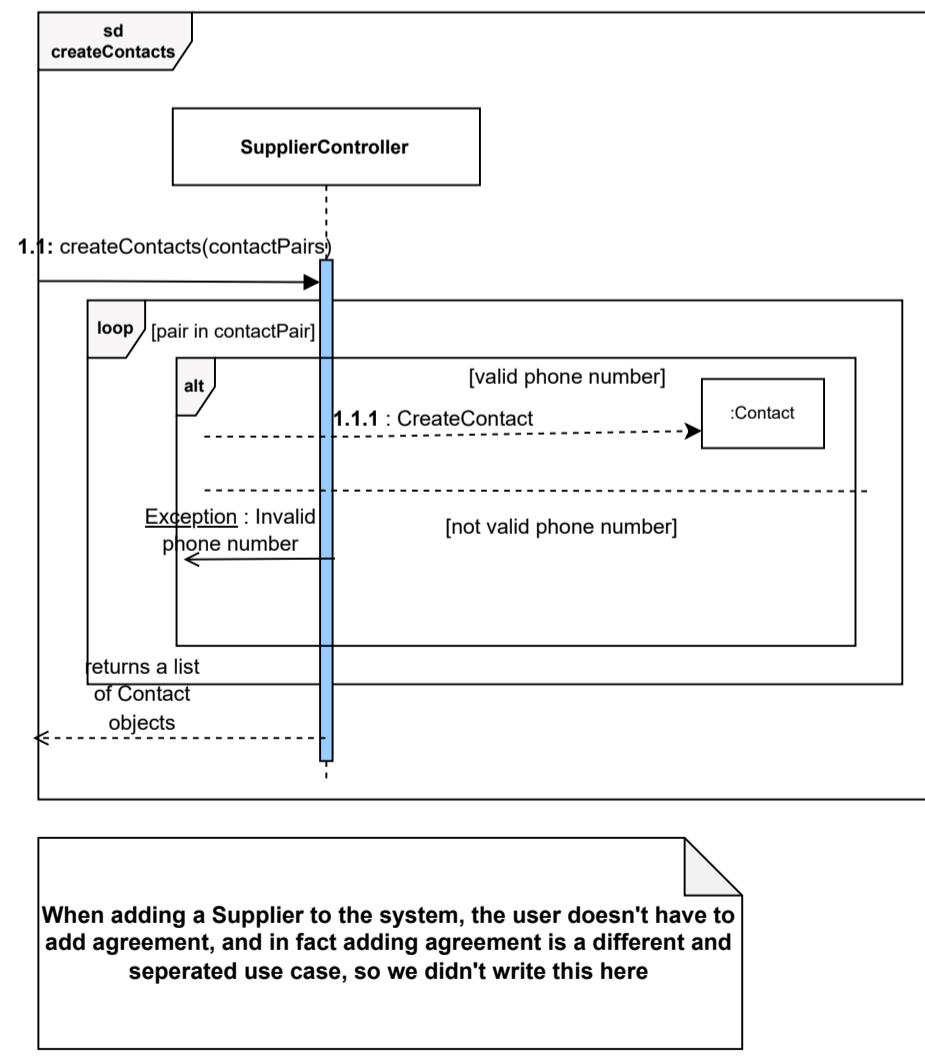
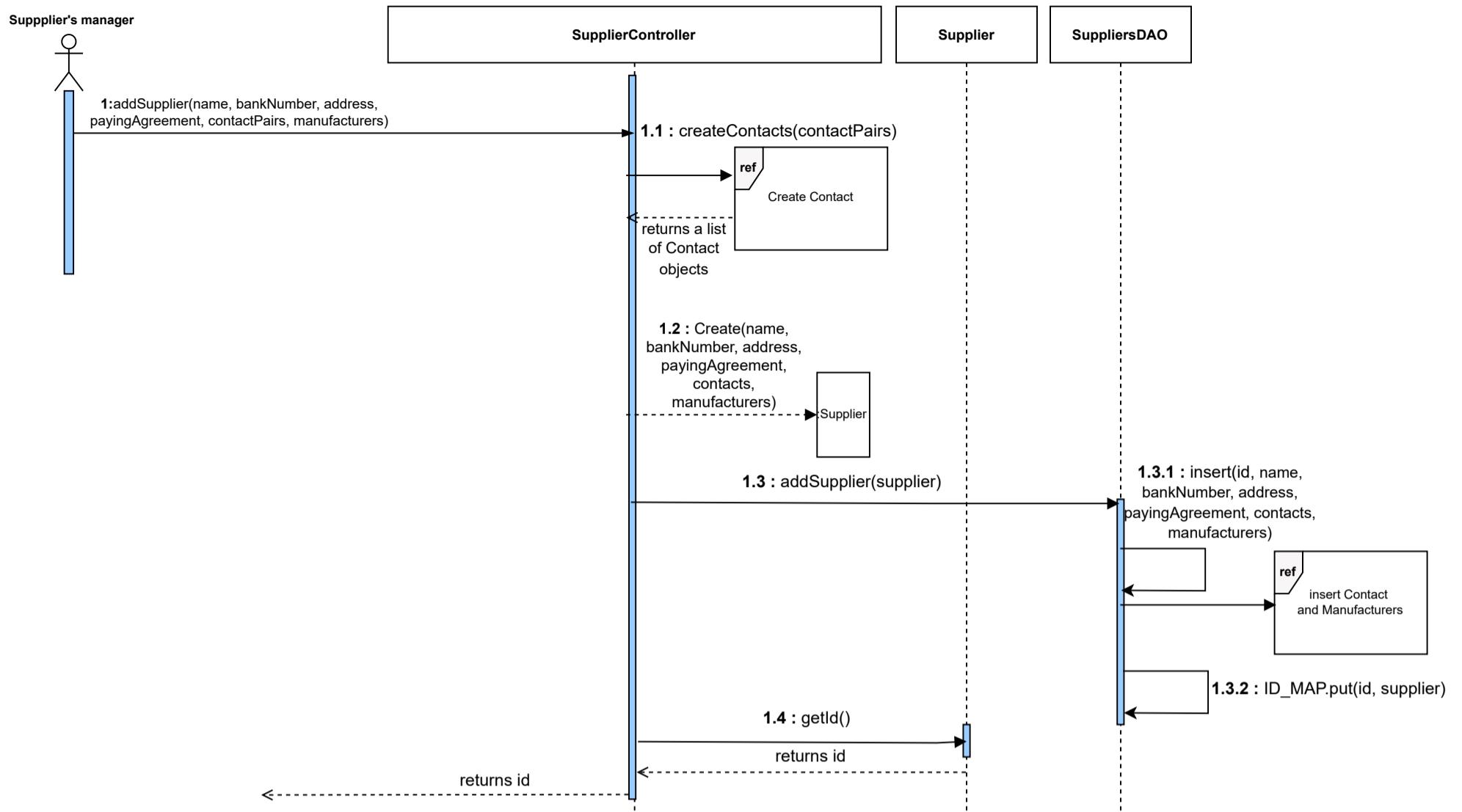


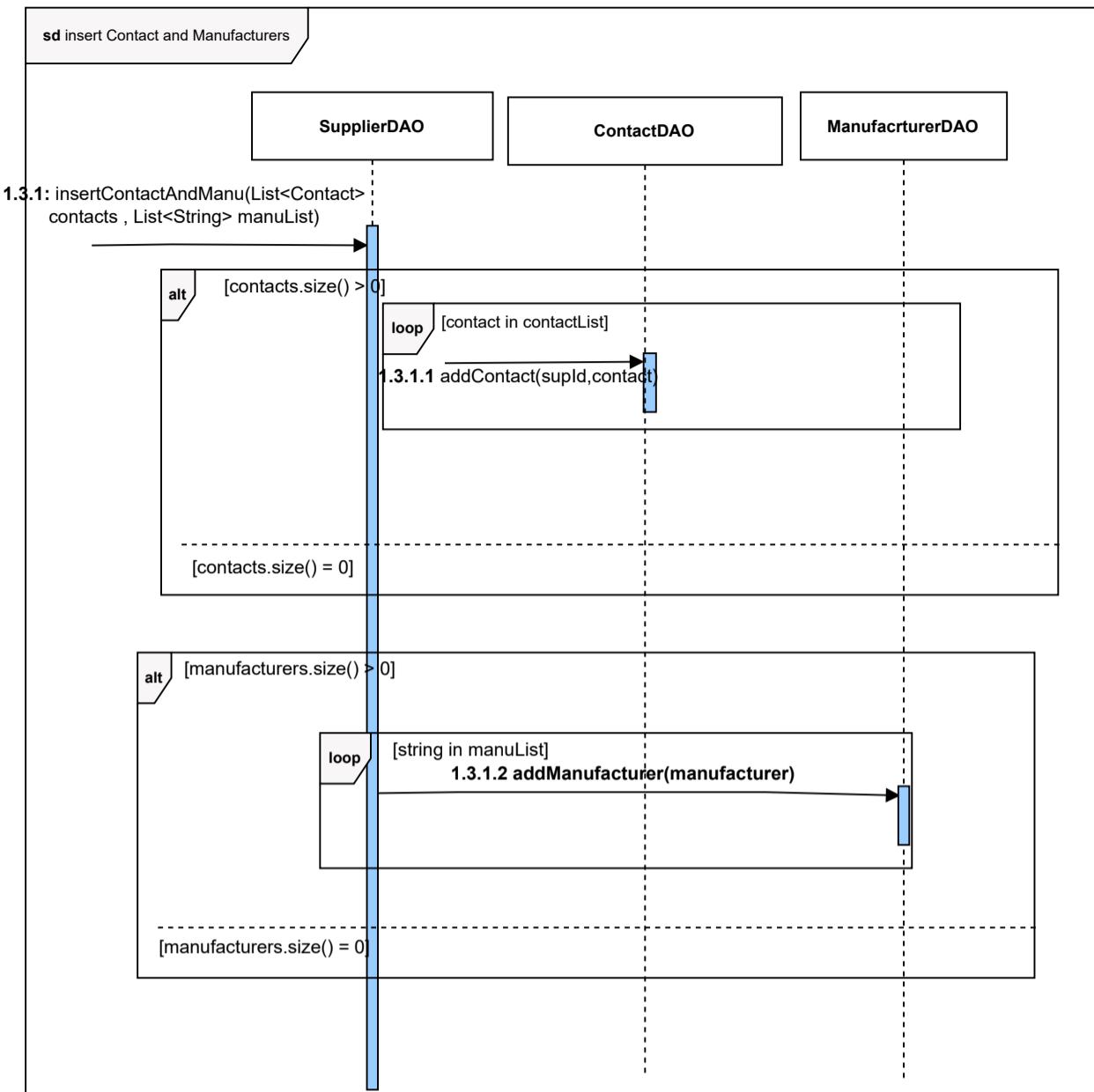


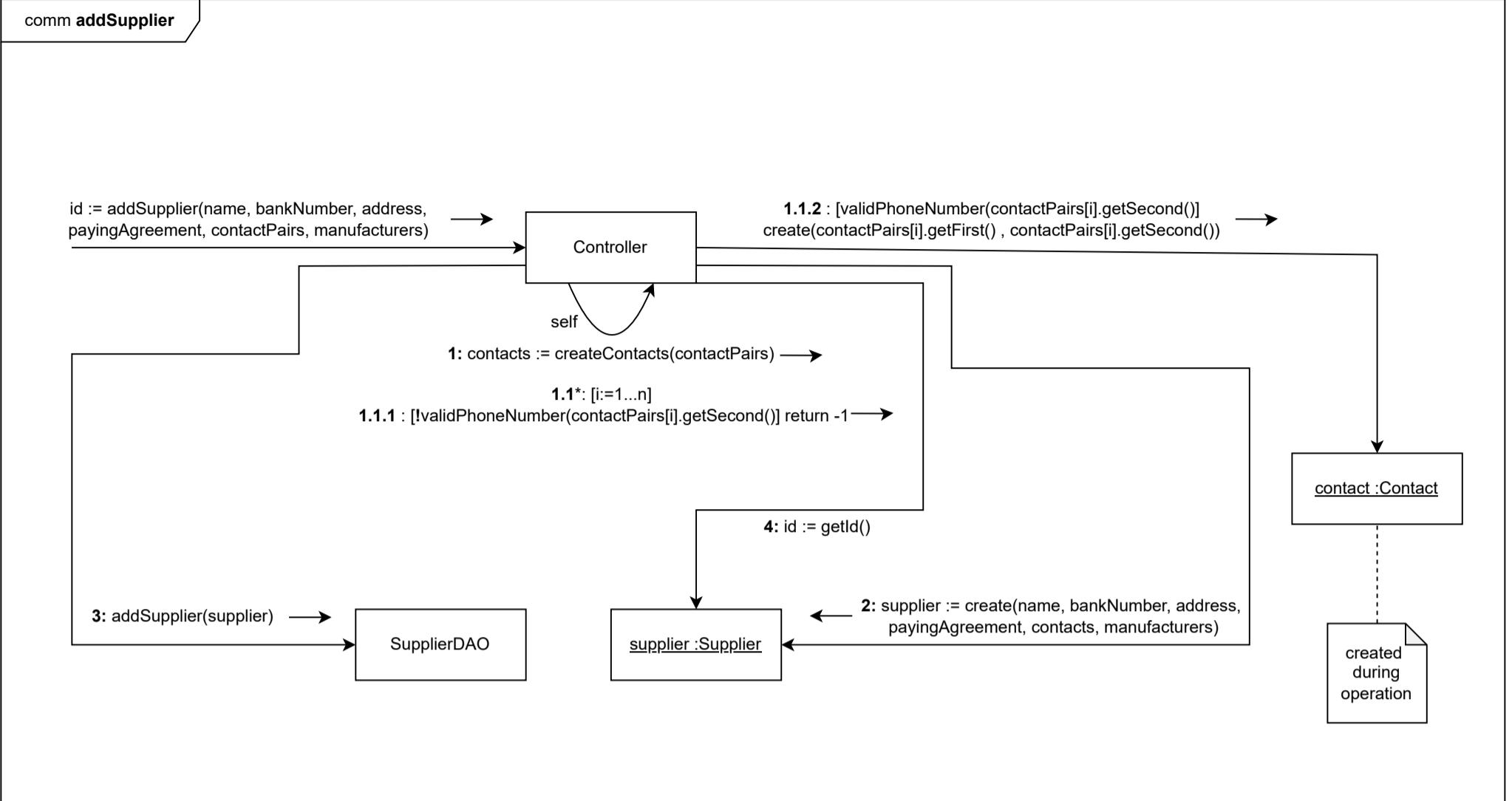
ReturnItems



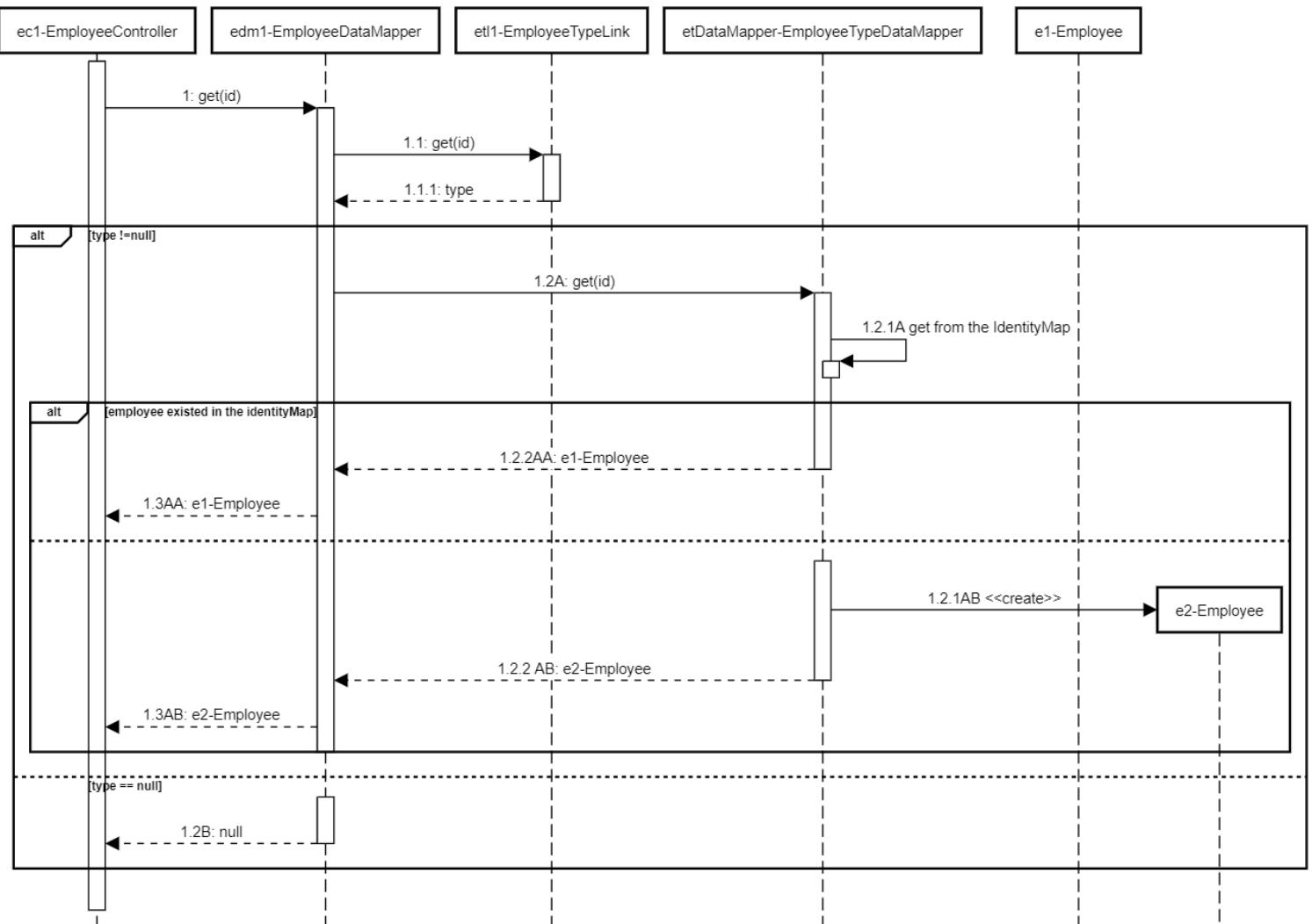




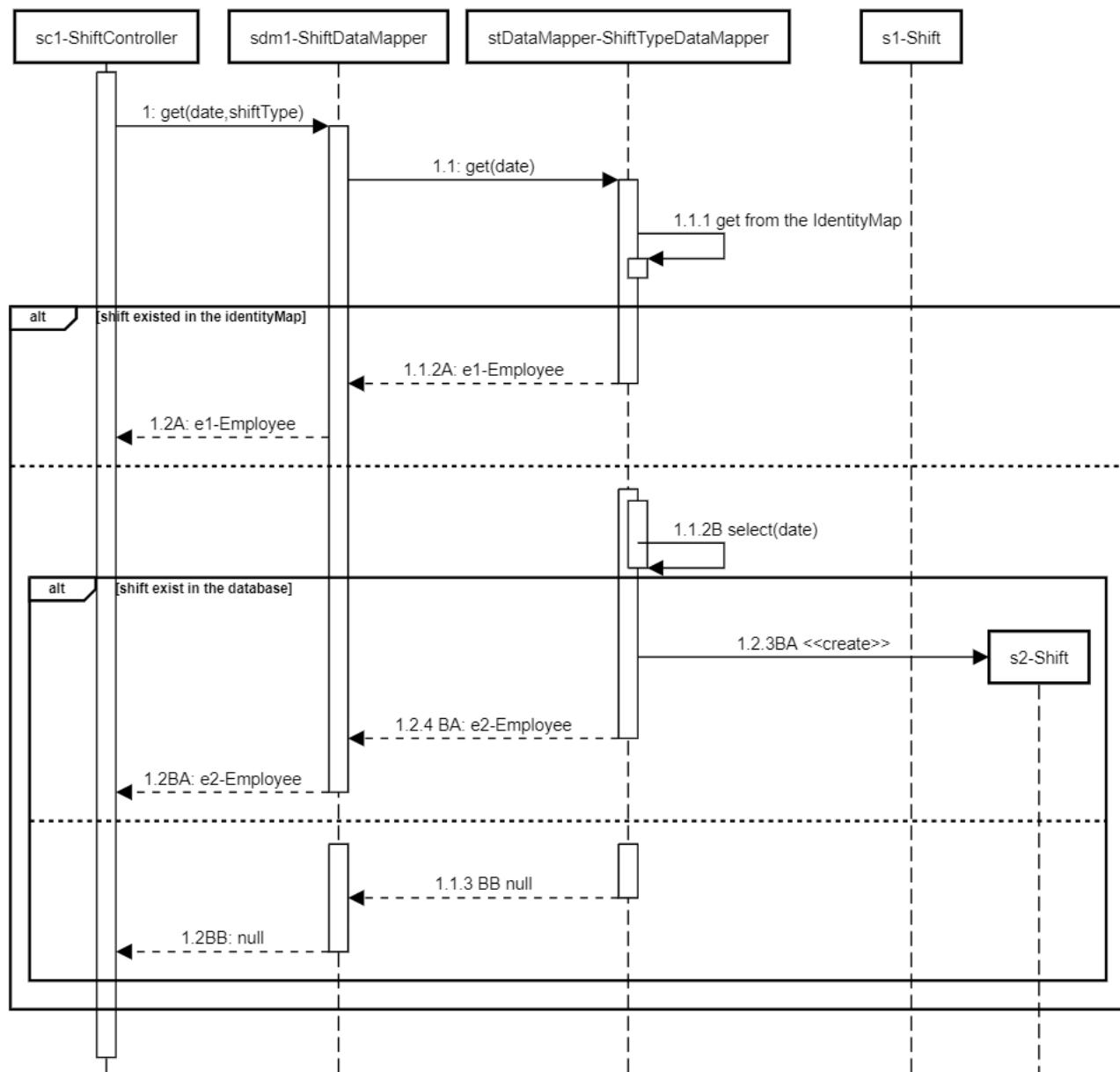


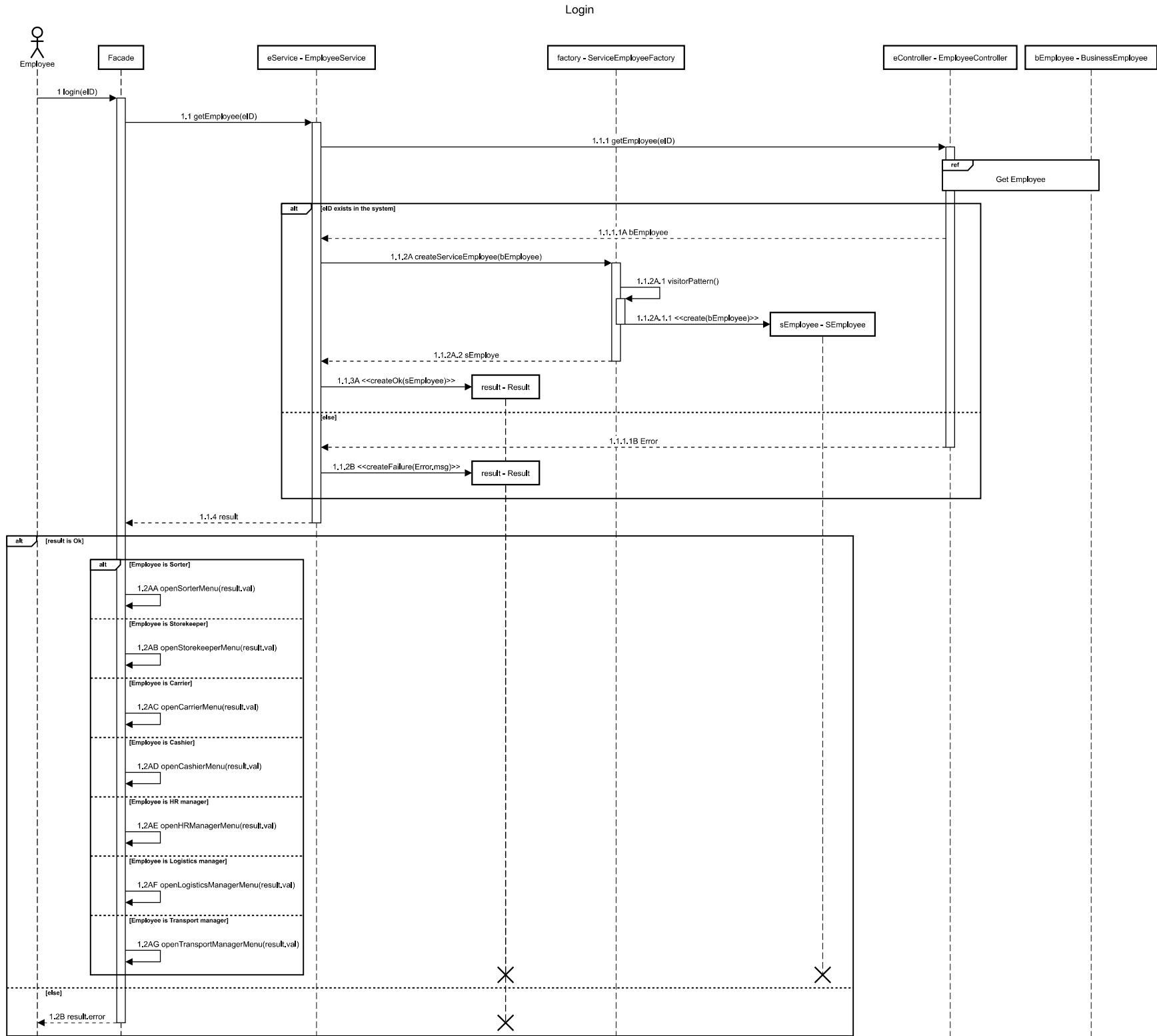


Get Employee

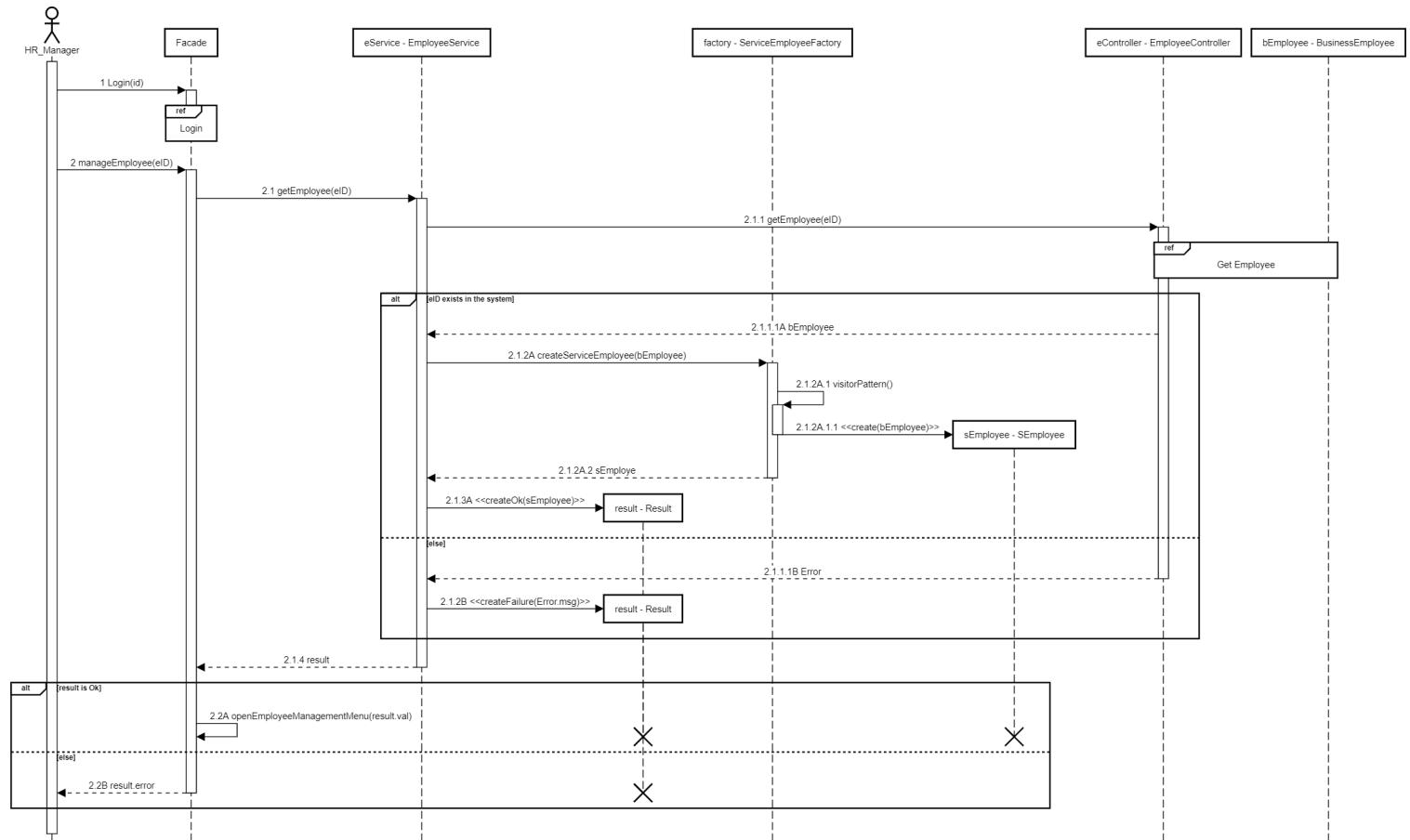


Get Shift

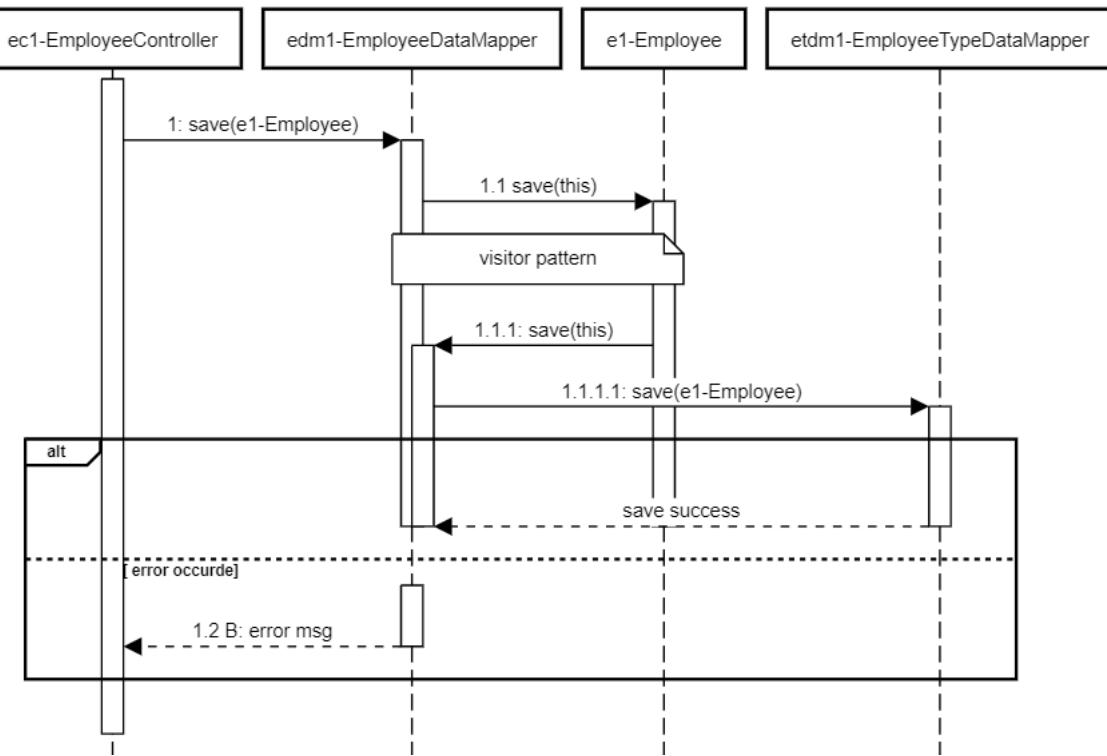




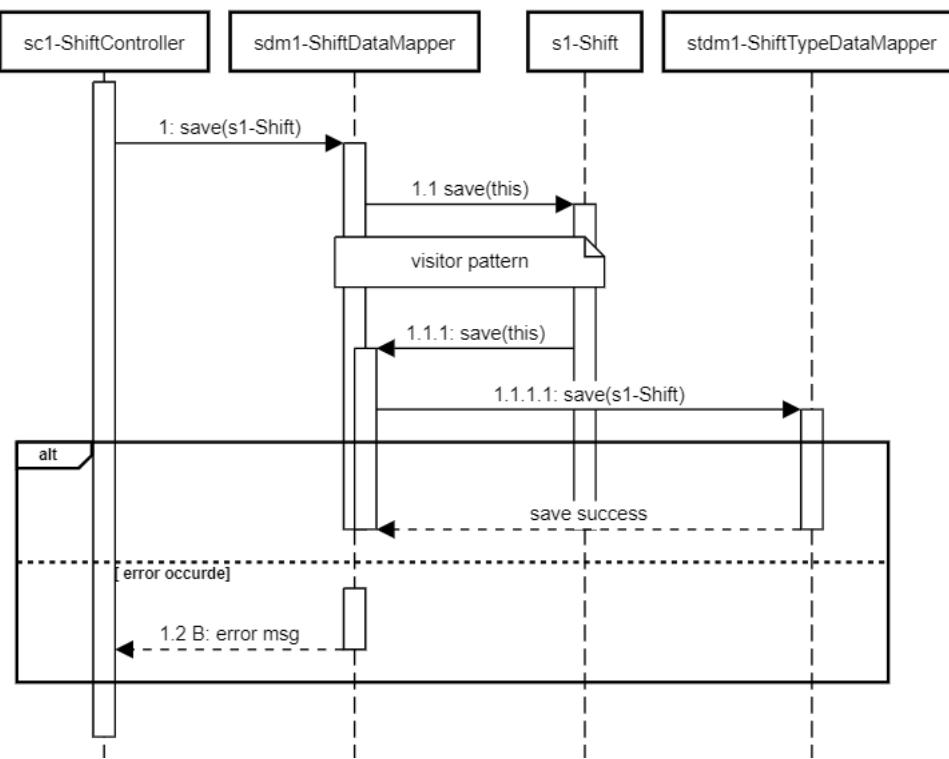
Opening Employee Management Menu



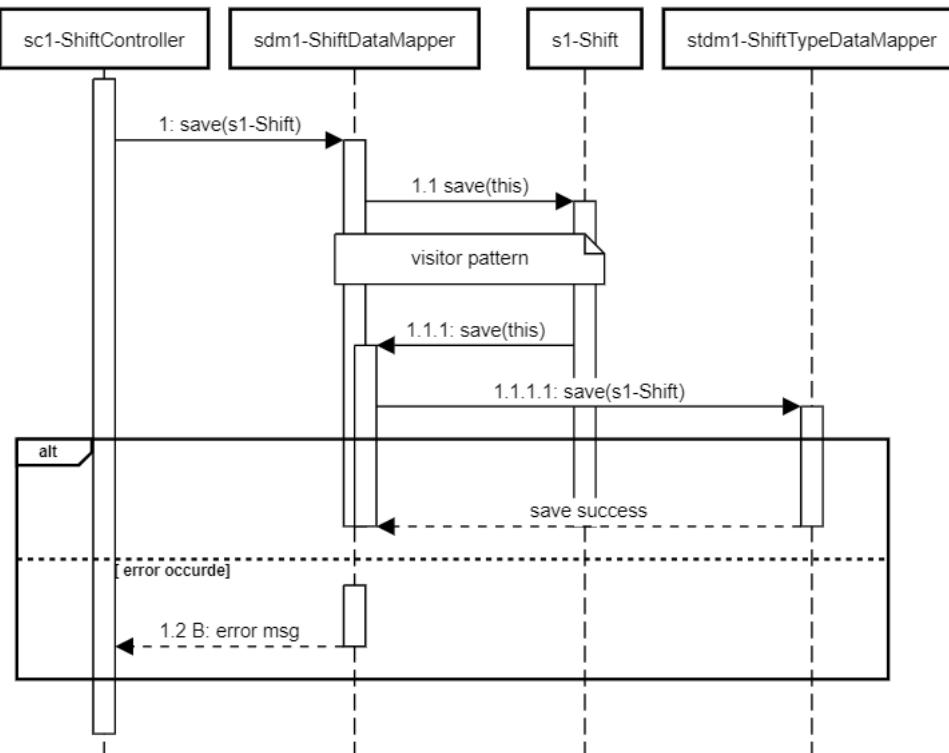
Save Employee In DB



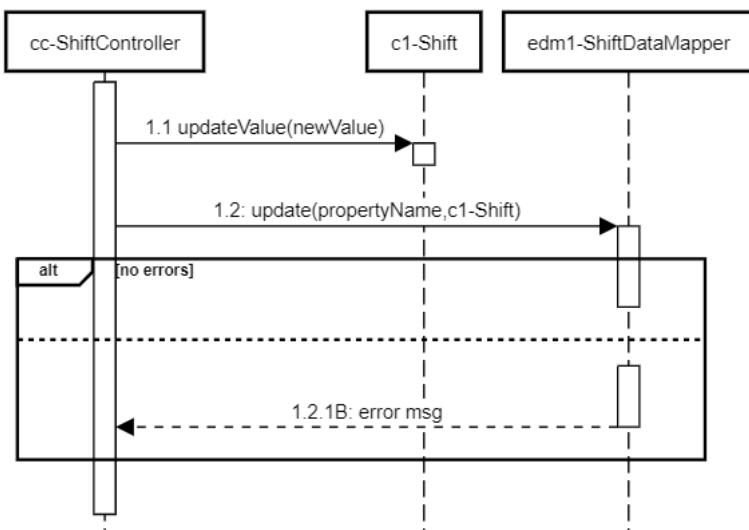
Save shift In DB

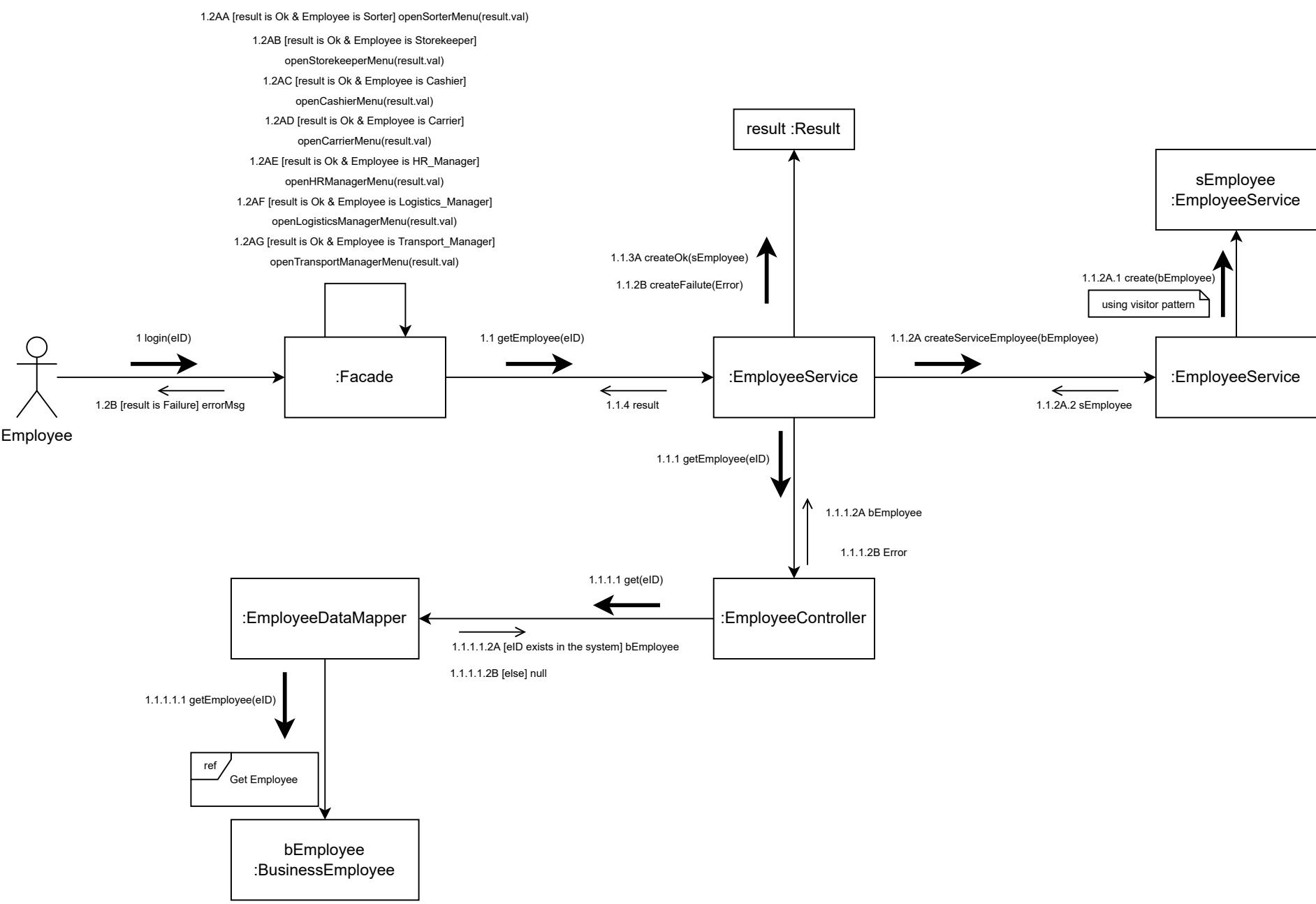


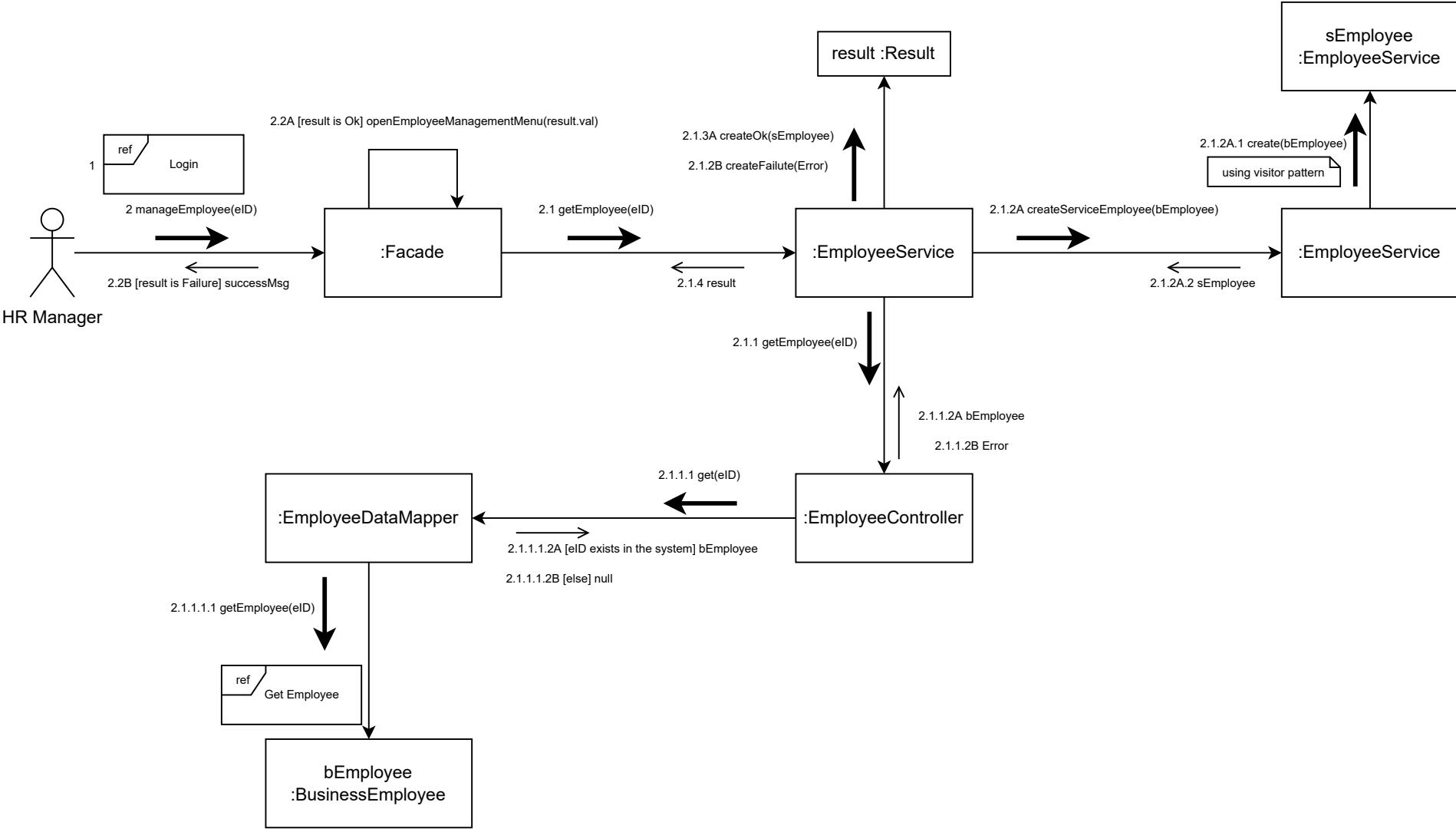
Save shift In DB

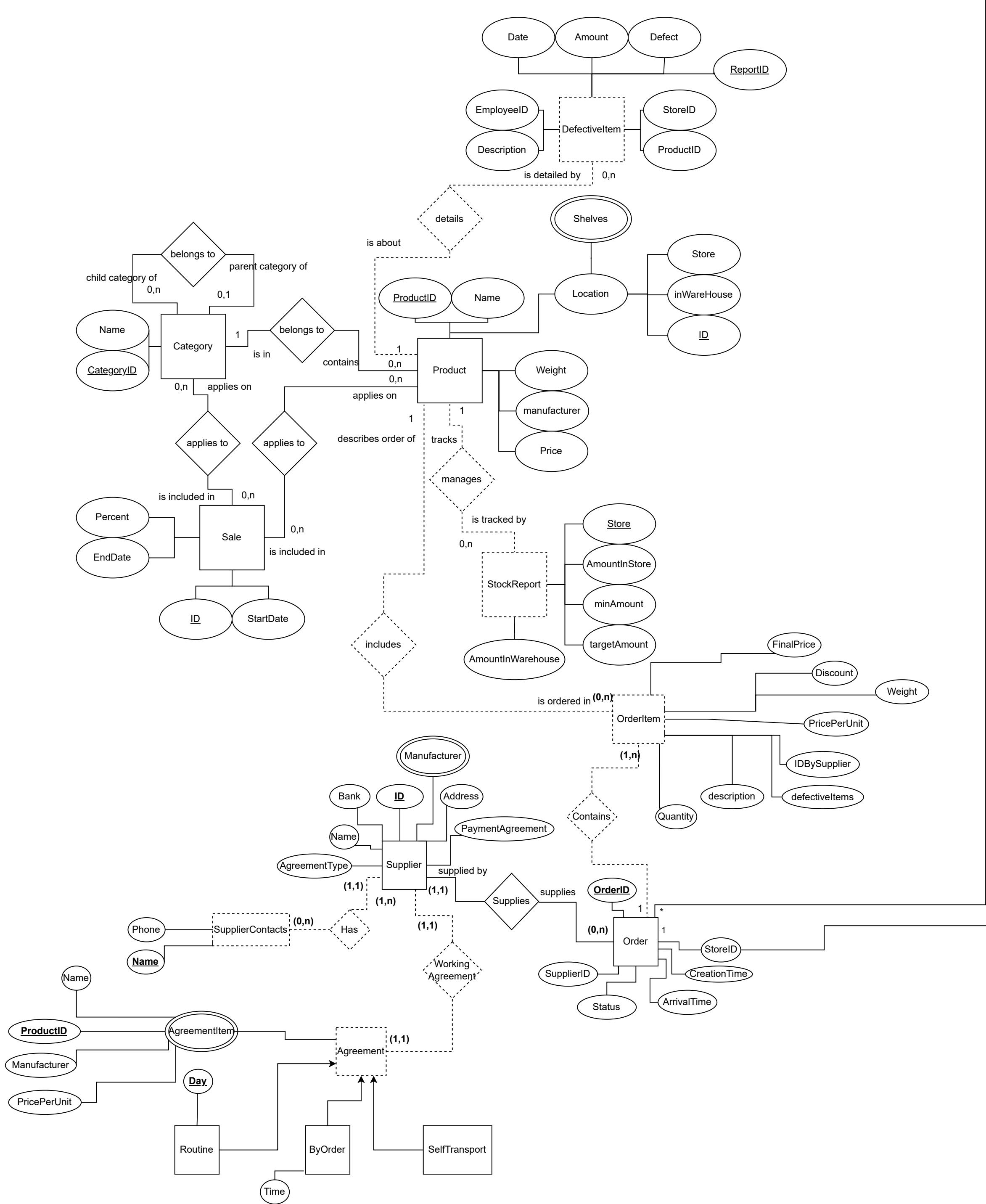
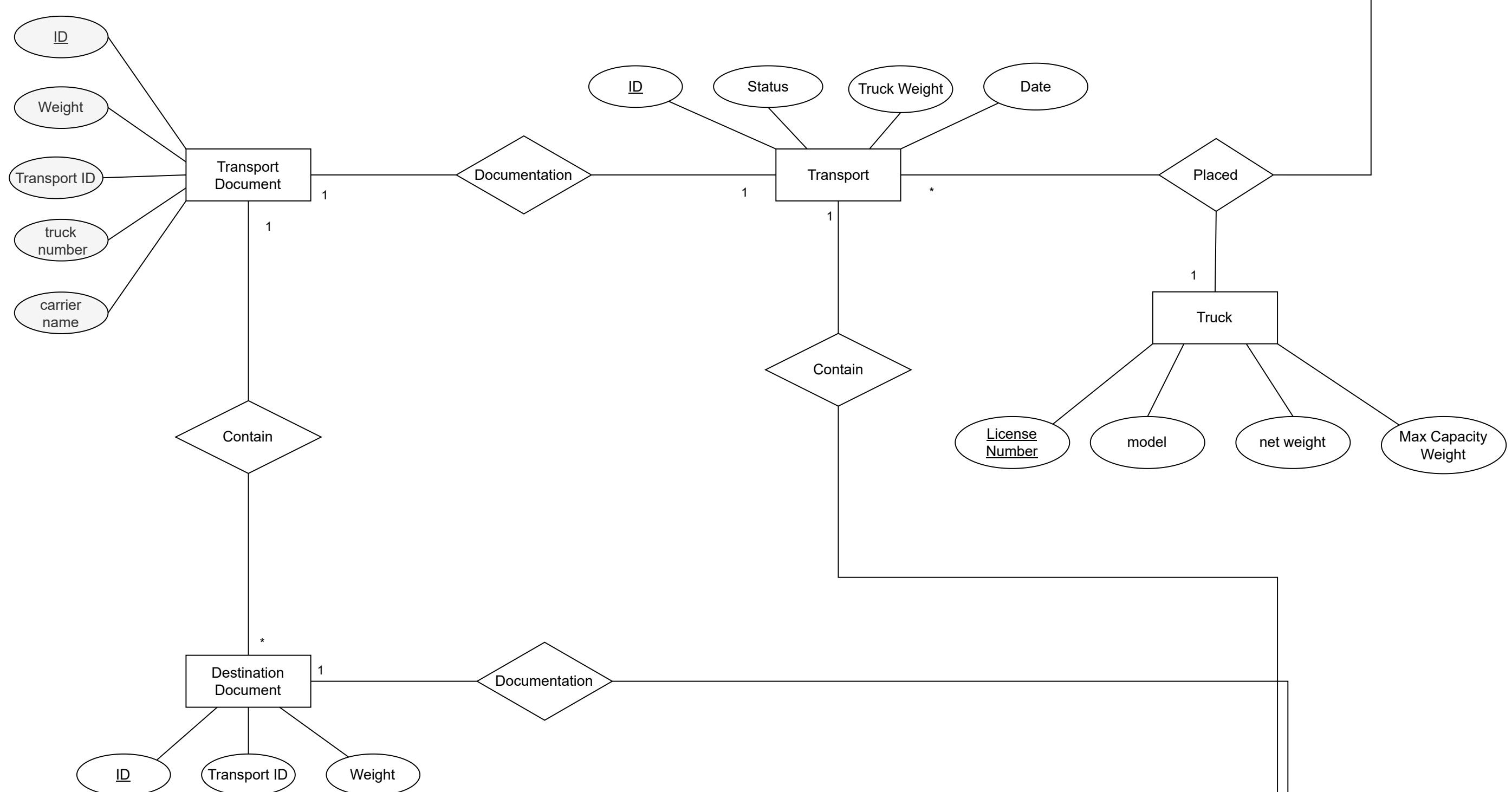
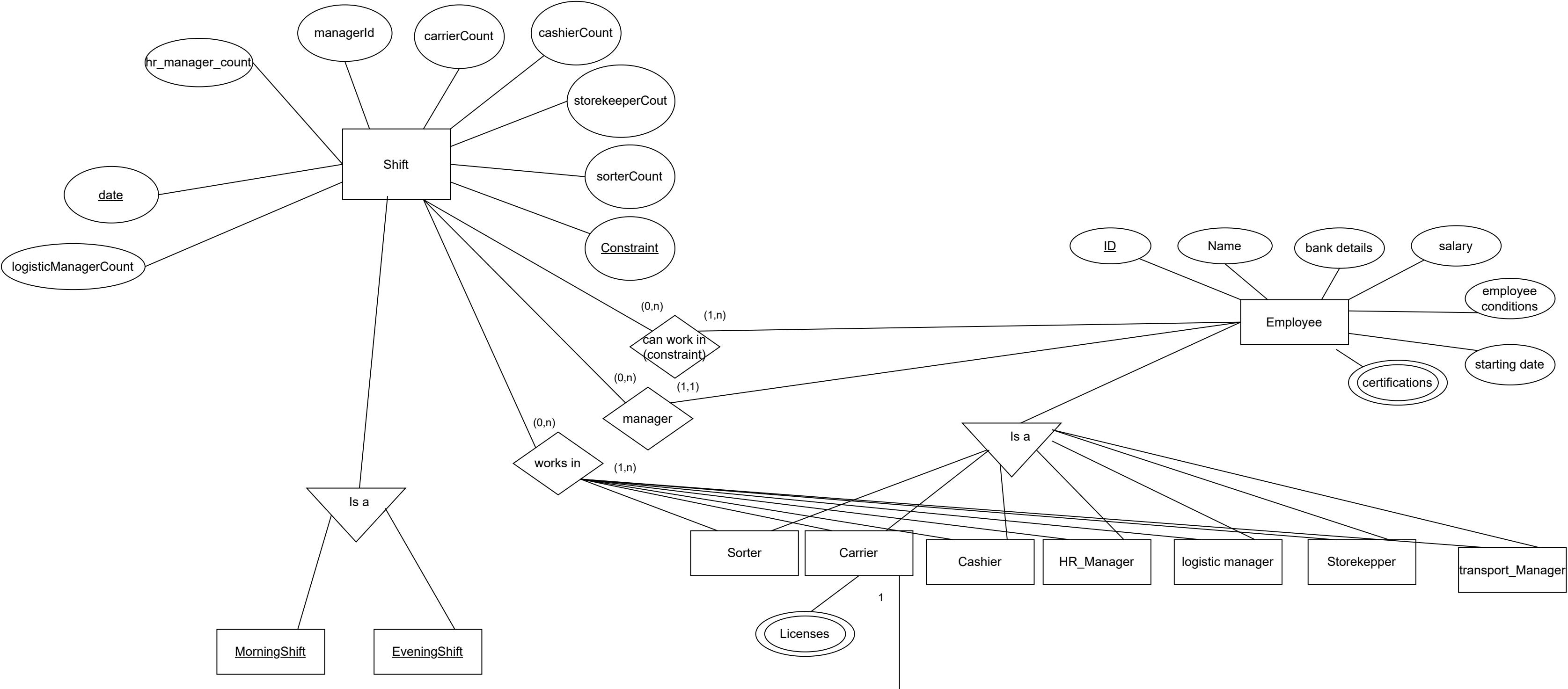


Update Shift





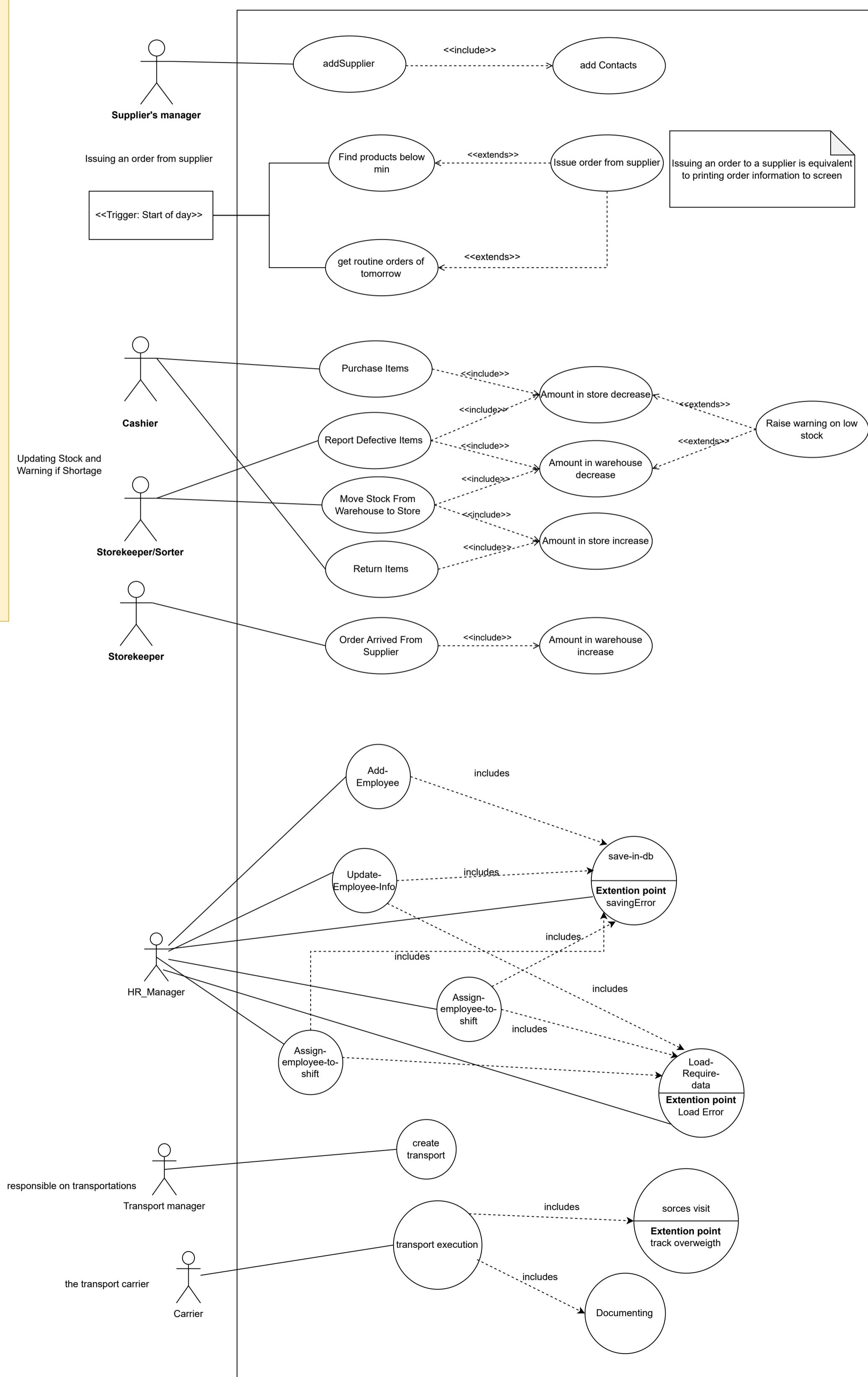


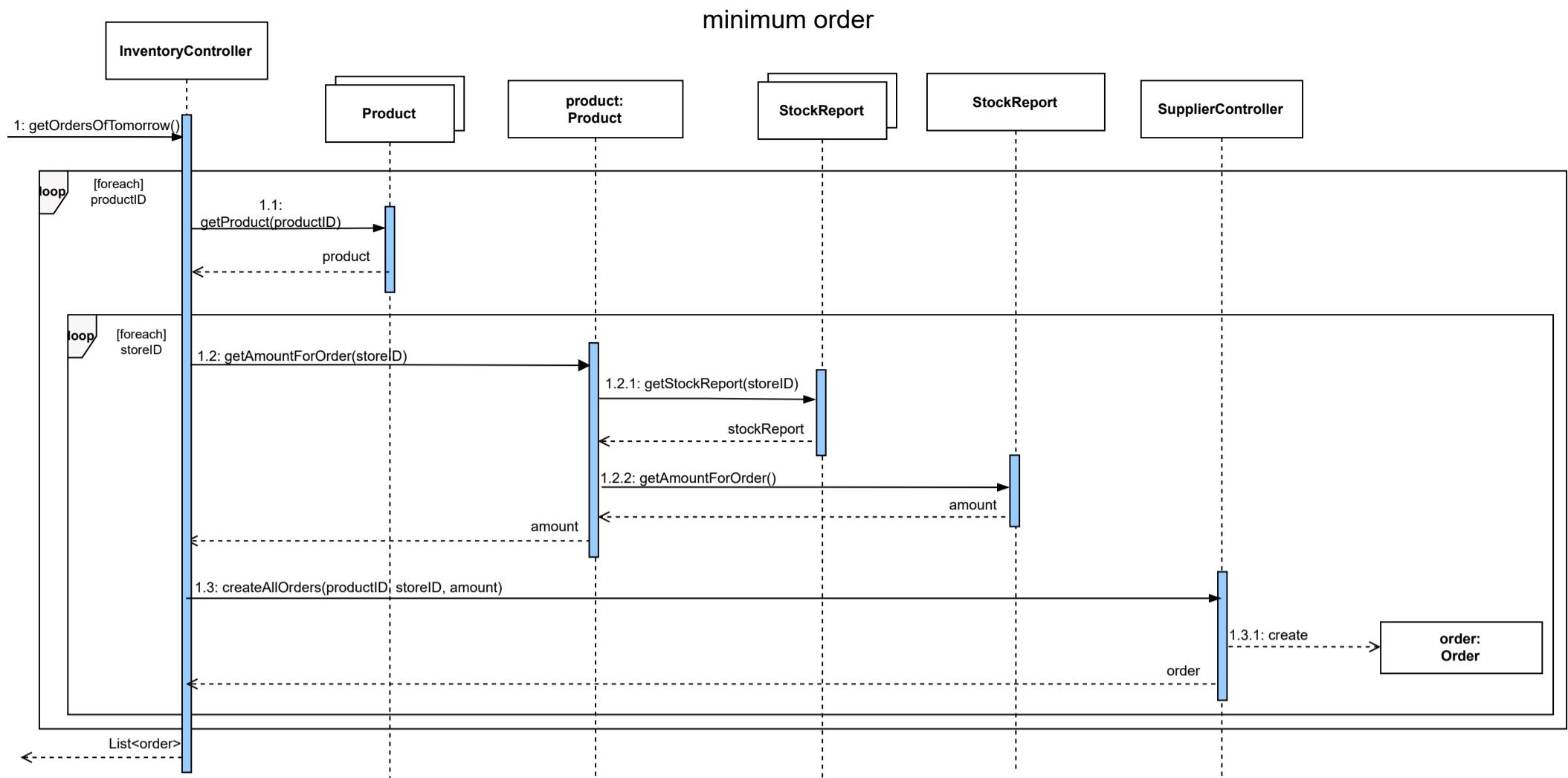


Use Case Diagram:

Use Case Diagram detailing
the following use cases:

- a. Registering new employee
- b. Updating employee details and constraints
- c. Inventory updating and warning on low stock
- d. Adding new supplier
- e. Carrying out routine order from supplier
- f. Carrying out order due to low stock
- g. Assigning employee to shift
- h. Carrying out a transport





Use case name: Issuing an order from supplier due to lack of product in a specific store.

Textual description: The shift manager start the system at the beginning of each day, then all the orders of products under minimum amount are being issued to their corresponding supplier (printed on screen).

List of actors: supply manager/shift manager (the one that should see the orders report on the screen every morning).

Pre-conditions: The system must load the following data: suppliers and products

Post-conditions: The amount of the product decreased in the store (new amount=old amount-required amount<minimum amount => new order has been created and printed on screen). amountInDeliveries.contains(orderID, required amount)=true, in the corresponding stockReport.

Name: Orders On The Way

Textual description: this use case should be initiated once in a day, when the system is started and it returns to the inventory department all the orders that are scheduled for tomorrow, and all the orders requested by the inventory department due to shortage in certain items.

List of Actors: Storekeeper.

Pre-Conditions: requested items must be delivered by least one supplier.

Post-Conditions: inventory items on-the-way quantities are updated according to the orders and shortages are deleted.

Main success scenario (Pseudo-code):

User

- 1) Start the system at the beginning of the work day.
- 2) System orders automatically from suppliers.
- 3) The new orders are available to watch in Supplier System.

Inventory Model

startOfDay:

- 1) Find the items to order, the requested amount for each one and what store request this order.
- 2) Ask supplier model to order requested items and routine orders (call function `createAllOrders`).
- 3) Update all products amount in inventory.

Supplier Model

createAllOrders(mapOfShorage):

- 1) Declare List<Order> *finalOrders*.
- 2) Declare List<Order> *autoOrders*.
- 3) Load all existing routine orders from Data Base, add all to *finalOrders*.
- 4) For every routine supplier:
 - a) If the supplier has a scheduled delivery for tomorrow, order from him the last order.
 - b) Add order to *autoOrder*.
- 5) For every item in mapOfShortage:
 - a) Search for the item in all the orders in *autoOrders*, and subtract the quantity ordered of this item to the requested store.
 - b) Add any order contains the item to *finalOrders*, remove it from *autoOrders*.
 - c) Update requested quantity of the item in mapOfShortage d)
If the requested quantity for the item is 0, delete item from mapOfShortage.
- 6) For each item in mapOfShortage:
 - a) Search for supplier that sell this item with the cheapest price.
 - b) If there is an order from the supplier to the requested store in *finalOrders*: update the order to contain the item in the wished quantity. Else: If there is an order in *autoOrders* from supplier, delete the order and make a new order for the item, add it to *finalOrders*. Else: make a new order for the item, add it to *finalOrders*.
- 7) Add all orders from *autoOrders* to *finalOrders*.
- 8) Return *finalOrders*.

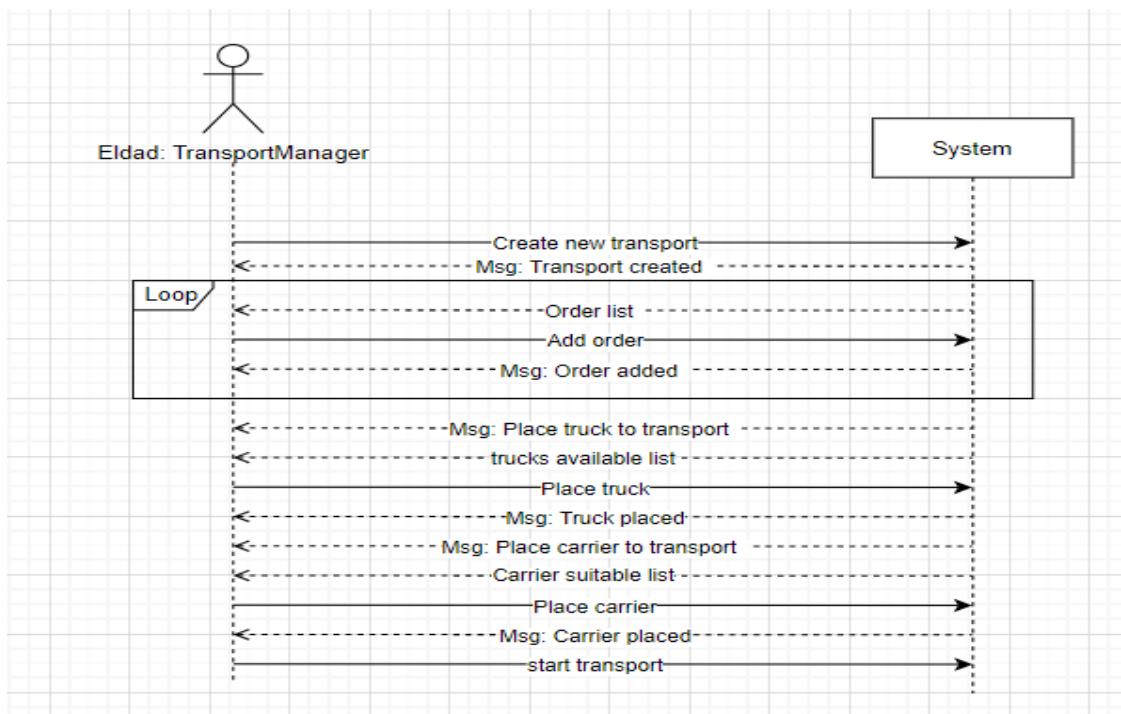
Alternative\Extantions:

- a) System failure when initiated:
 - 1) System will present the error message to the user that booted the system.
 - 2) System will ask the user to restart it.

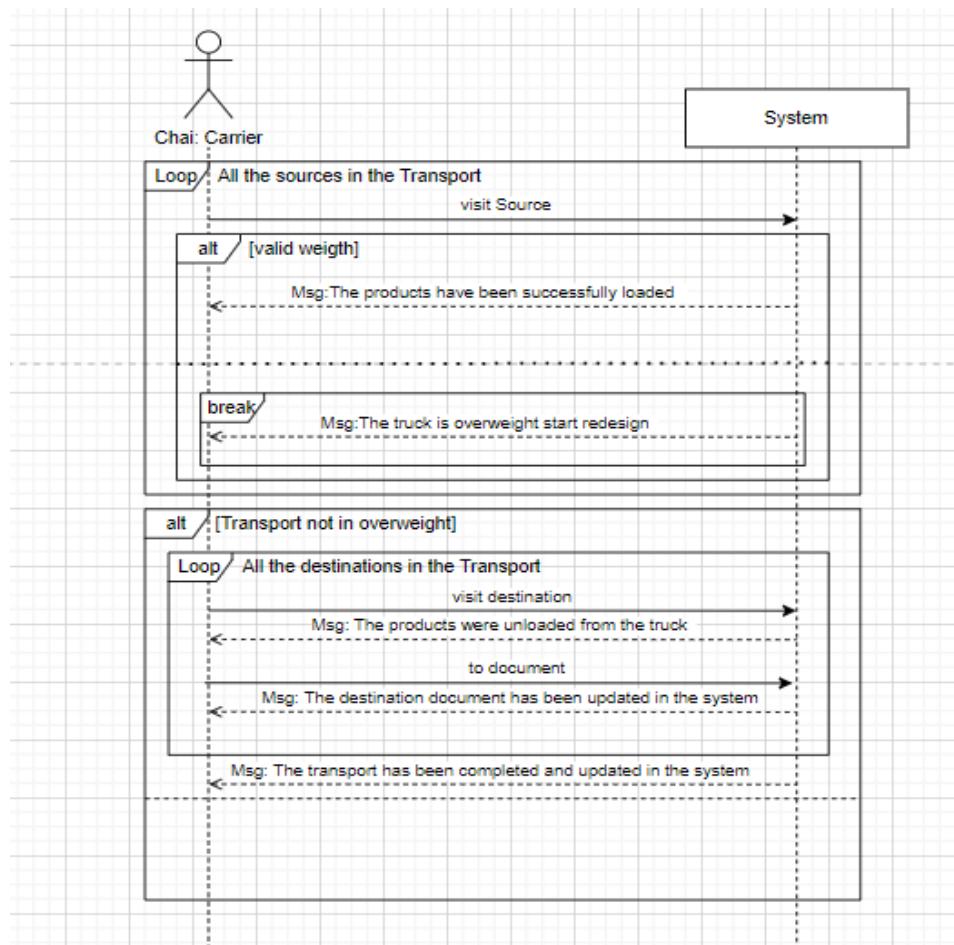
:Use case

Use case name	Carrying out its transport
Textual Description	Creating and carrying out its transport.
List of Actors	Transport manager and Carrier.
Pre-conditions	<ol style="list-style-type: none"> 1. There is an order for transportation. 2. There is a truck and a carrier with a suitable license for this truck. 3. There are sources and destinations of transportation.
Post-conditions	<ol style="list-style-type: none"> 1. In the completed transports archive the order exist. 2. The truck and driver will be available for other transports.
Main success scenario	<ol style="list-style-type: none"> 1. Transport Manager create new transport. 2. Transport manager adds transport order to the transport. 3. Transport manager chooses truck for the transport. 4. Transport manager chooses driver that suitable to this transport. 5. The carrier updates the truck weight in each source. 6. The carrier updates about his visit in each destination, and the destination document will save in the archive. 7. When the carrier finishes his ride the transport will finish, and transport document will save in the archive.
Alternatives/Extensions	<p>In case that the truck is in overweight the alert will send to the carrier and the redesign of the transport will be performed. The transport will end and start over. In the redesign of the transport the system will operate to reduce the weight of the truck so the transport will not be in over weight again.</p>

sequence diagram for Transport manager with the system



sequence diagram for Transport manager with the system



Detailed Use Cases:

Use case name	Assigning-Employee-to-Shift
Textual Description	The HR manager assigns a specific employee to a specific shift.
List of Actor	HR Manager
Pre-Conditions	The HR manager is in the ShiftMenu, The shift must exist in the system; The employee has to have a constraint matching shift date and type; The employee must not be assigned to the shift
Post-Conditions	The shift has the employee assigned to it; the database includes a record which details the assignment
Main success scenario	<ol style="list-style-type: none">1) The HR manager chooses the shift through the ShiftMenu2) The HR manager chooses to add to the shift employees of the type of the wanted employee3) System validates number of already assigned employees of chosen type is less than set max number for this type4) System shows available employees for chosen shift of chosen type5) HR Manager chooses the employee out of the list of available employees6) System checks new number of currently assigned to set max7) HR Manager stops the assignment process
Alternative/Extensions	<p>3') Number of assigned employees matches set number 4') System notifies HR manager of the situation and offers to reset the number of employees for the shift or remove already assigned employee</p> <p>7'') System stops the assignment process</p>

When assigning an employee to a shift the system will interact with the manager in order to produce identifying data for the shift and the employee. The system will assign and save the assignment in the system if conditions are met.

Employee Assignment To Shift

