

**Analysis Document**

**Hygeia pharmacy**

Version 1.0

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7 November, 2016

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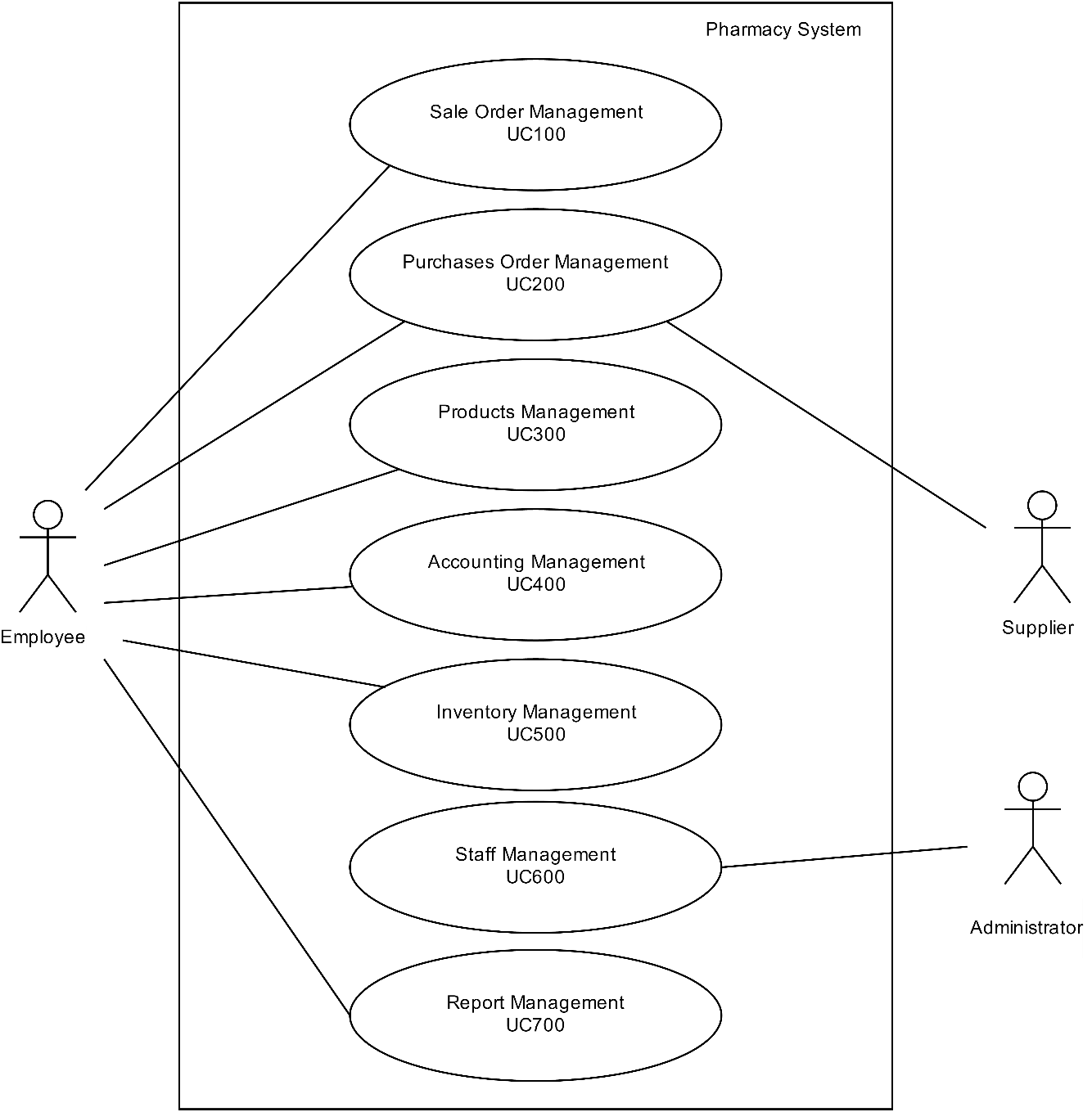
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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Description** | **Version** |
|  |  |  |  |
|  |  |  |  |

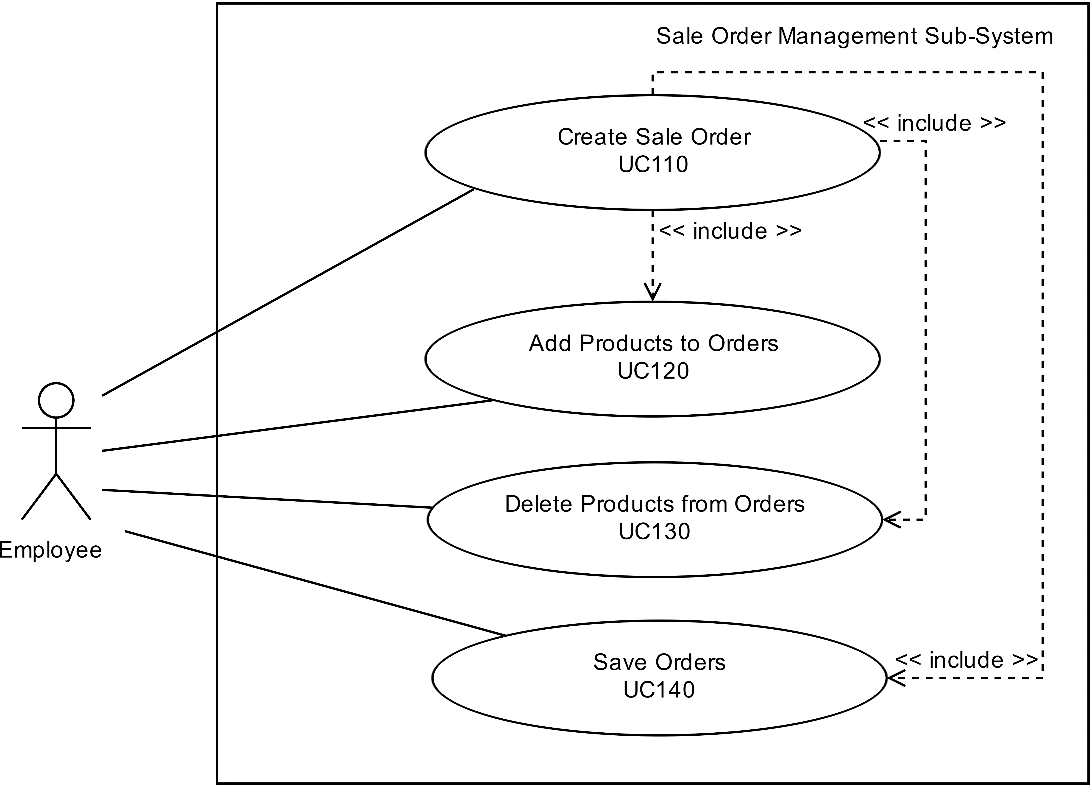
# Use Case Overview

## Use Case Diagram Level 0: Pharmacy System

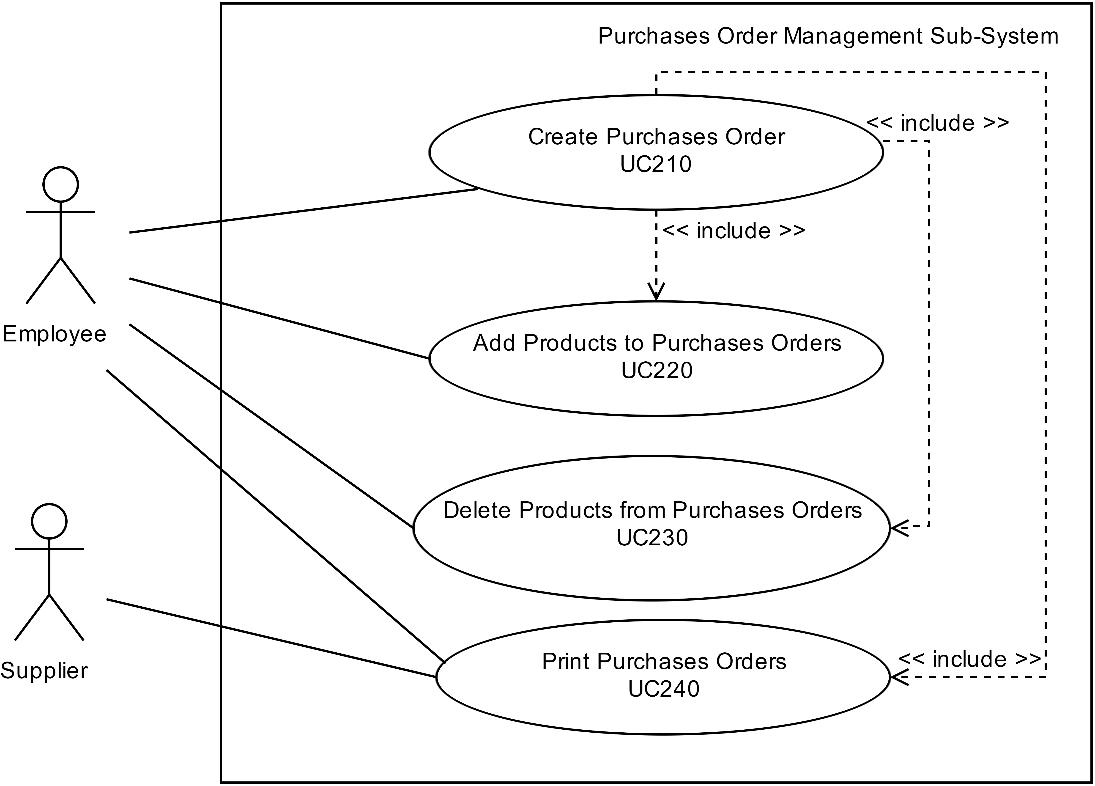


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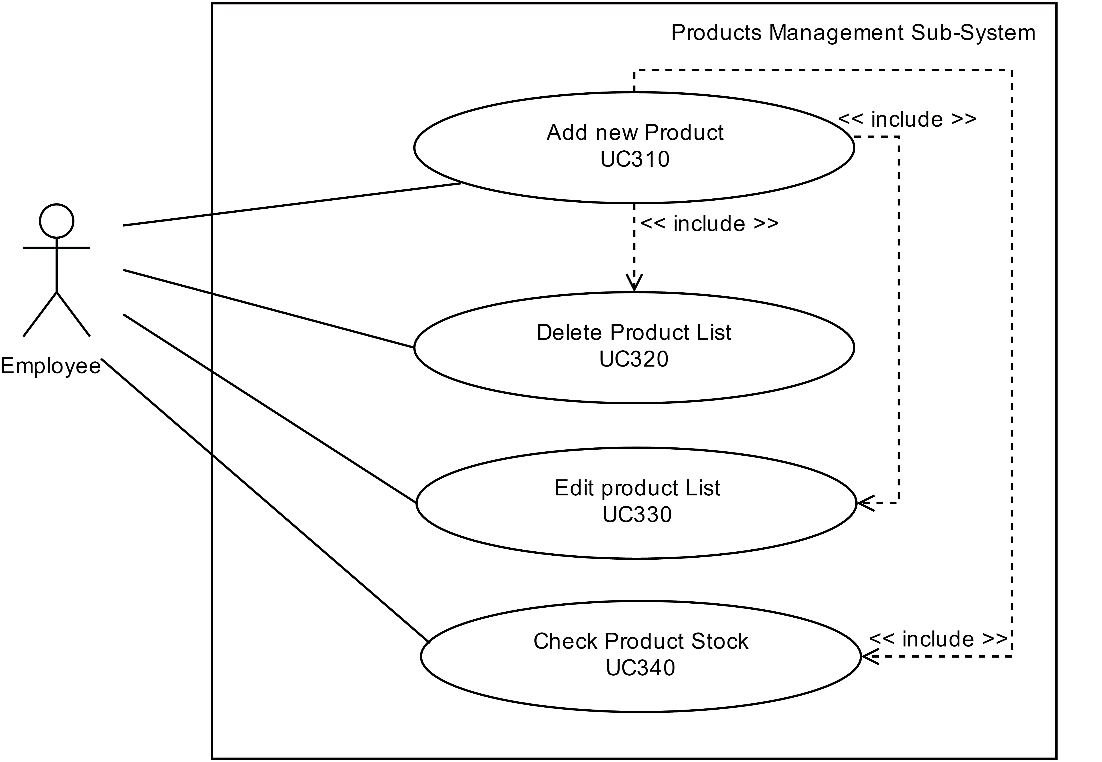
## Use Case Diagram Level 1: Sale Order Management Sub-System (UC100)



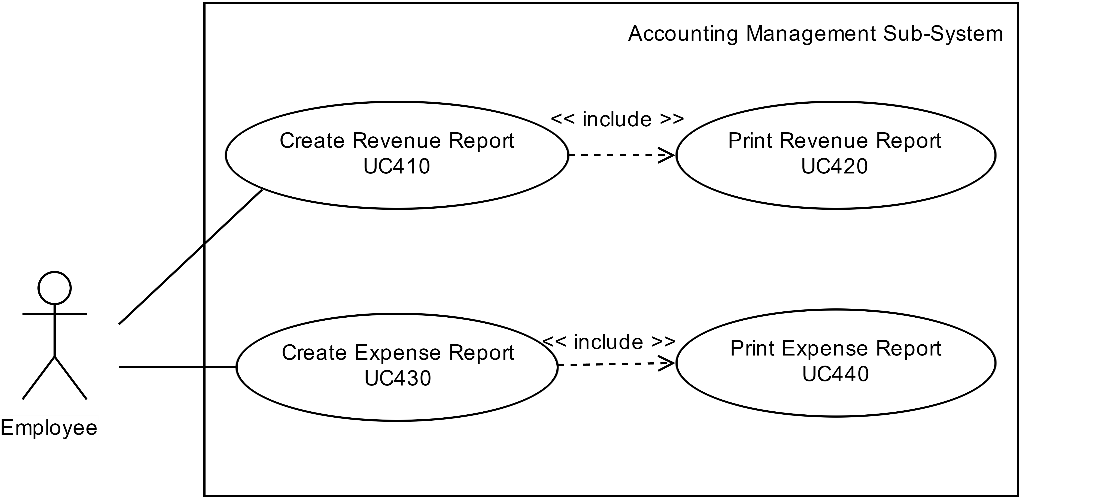
## Use Case Diagram Level 1: Purchases Order Management Sub-System (UC200)

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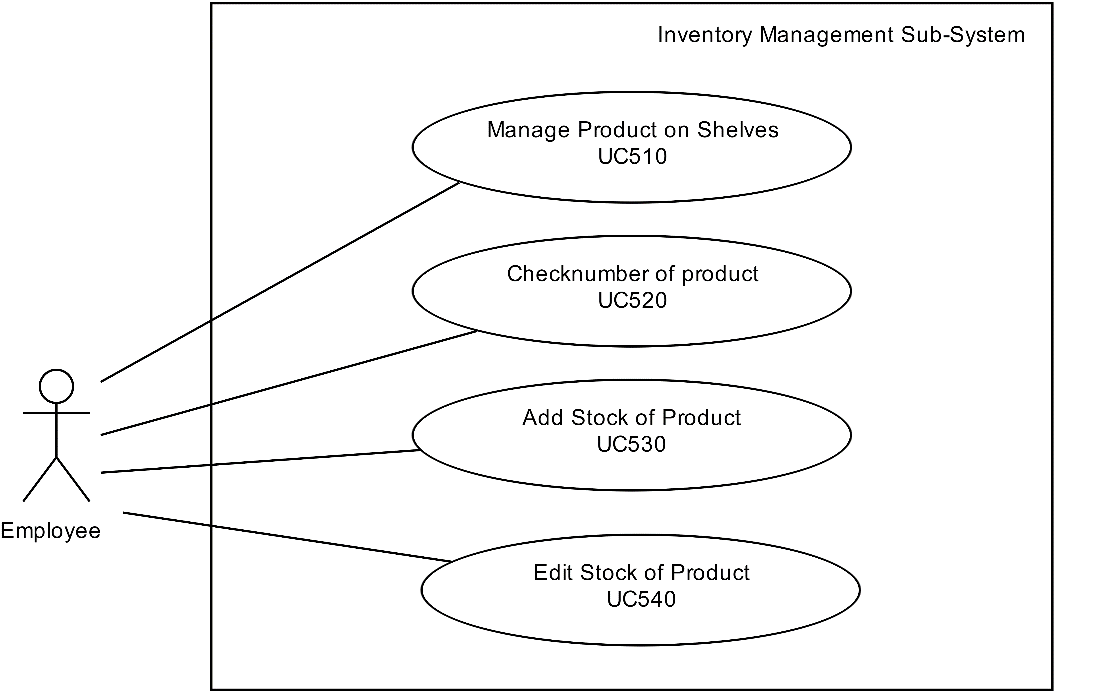
## Use Case Diagram Level 1: Products Management Sub-System (UC300)

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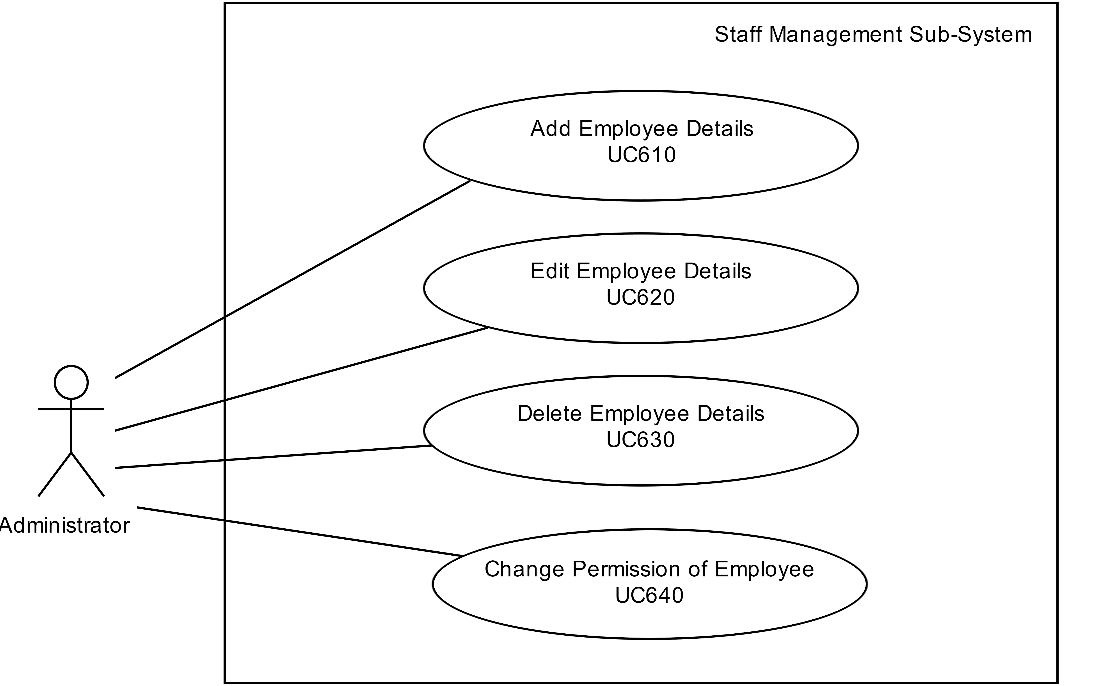
## Use Case Diagram Level 1: Accounting Management Sub-System (UC400)

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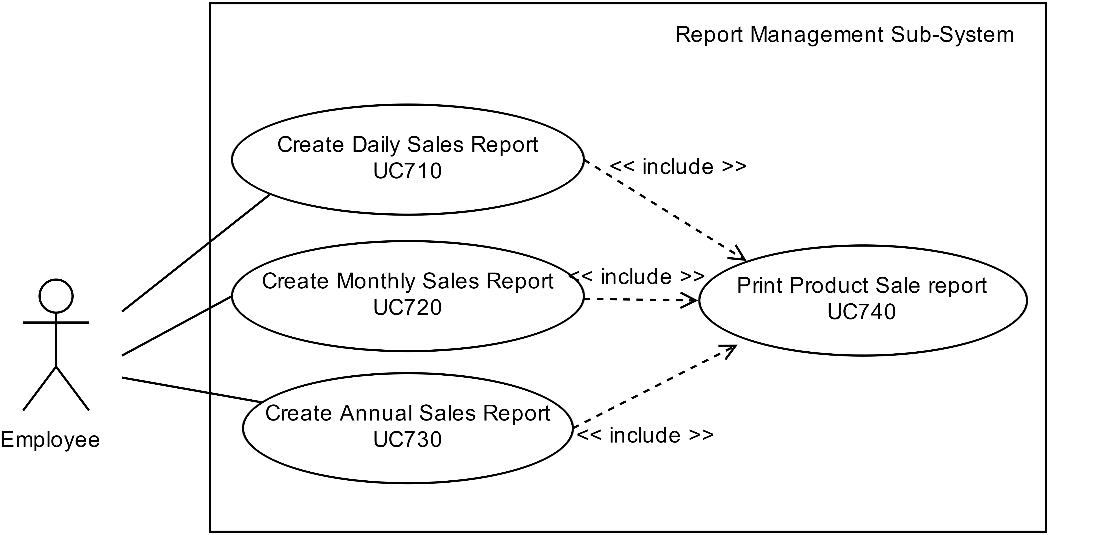
## Use Case Diagram Level 1: Inventory Management Sub-System (UC500)

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## Use Case Diagram Level 1: Staff Management Sub-System (UC600)

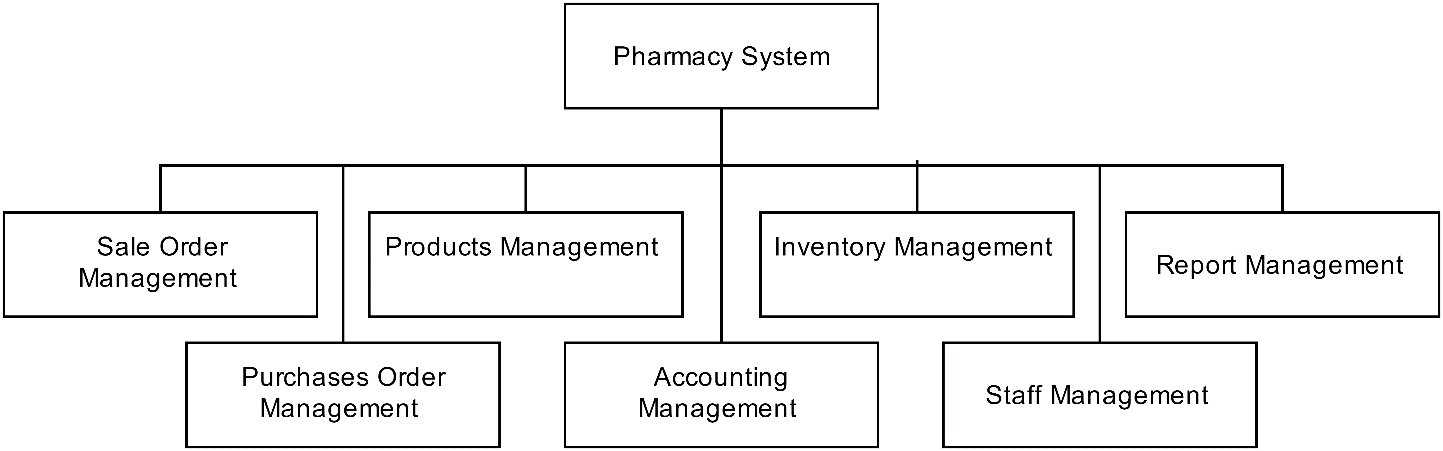
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## Use Case Diagram Level 1: Report Management Sub-System (UC700)

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# System Structure

This should use structure chart to express the breakdown of the system to the lowest manageable levels. It is used to show the hierarchical arrangement of the subsystems in a [system](http://en.wikipedia.org/wiki/Structured_programming). Each rectangular box represents a subsystems. The names of the subsystems are written inside the box. An arrow joins two subsystems that have an invocation relationship.



**Static Structure and Data Analysis**

This should show the conceptual description of the systematics of the system. Thus, the class diagram is used to describe this static structure of the system. Furthermore, the class diagram is also used for data modelling. Classes in class diagram are classified into 3 types:

Entities

Boundaries (GUI)

Controls

**Boundaries (view)**

Objects that interface with system actors (e.g. a user or external service). Windows, screens and menus are examples of boundaries that interface with users.

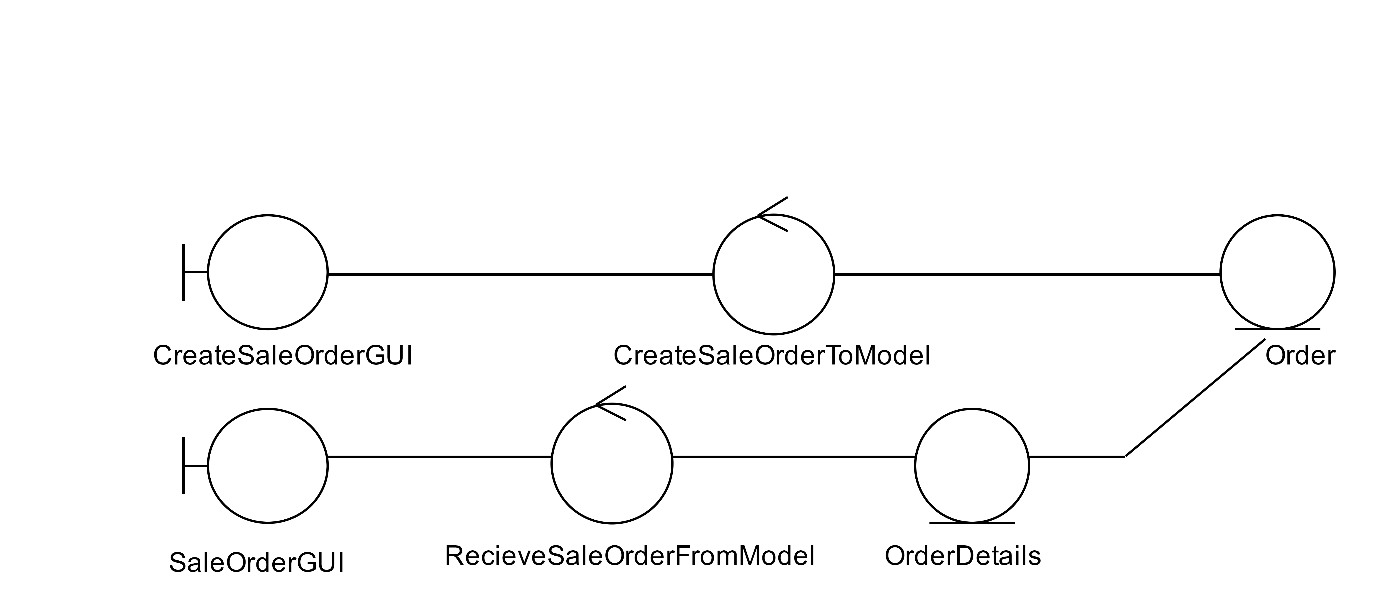
**Entities (model)**Objects representing system data, often from the domain model.

**Controls (controller)**Objects that mediate between boundaries and entities. These serve as the glue between boundary elements and entity elements, implementing the logic required to manage the various elements and their interactions. It is important to understand that you may decide to implement controllers within your design as something other than objects – many controllers are simple enough to be implemented as a method of an entity or boundary class for example.

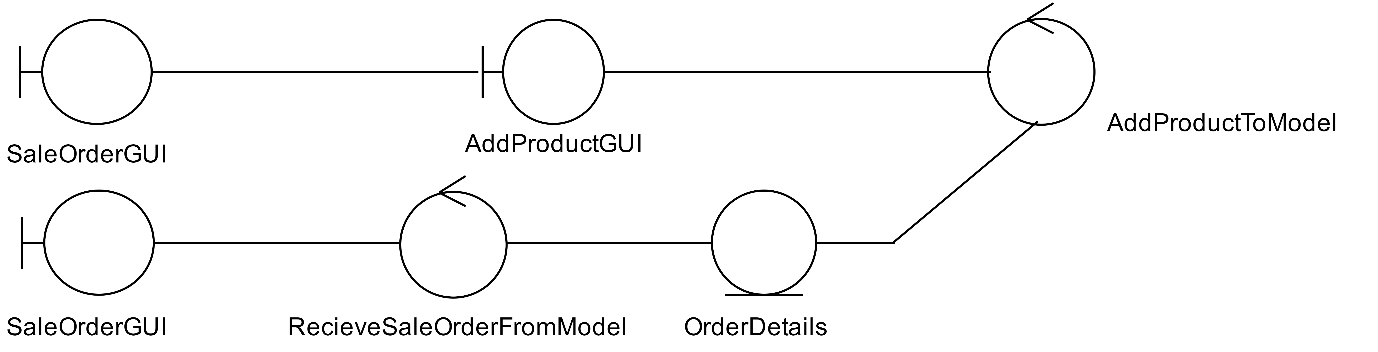
## 4.1 **Model-View-Controller (MVC) Model**

## **1. MVC Model:** Sale Order Management Sub-System

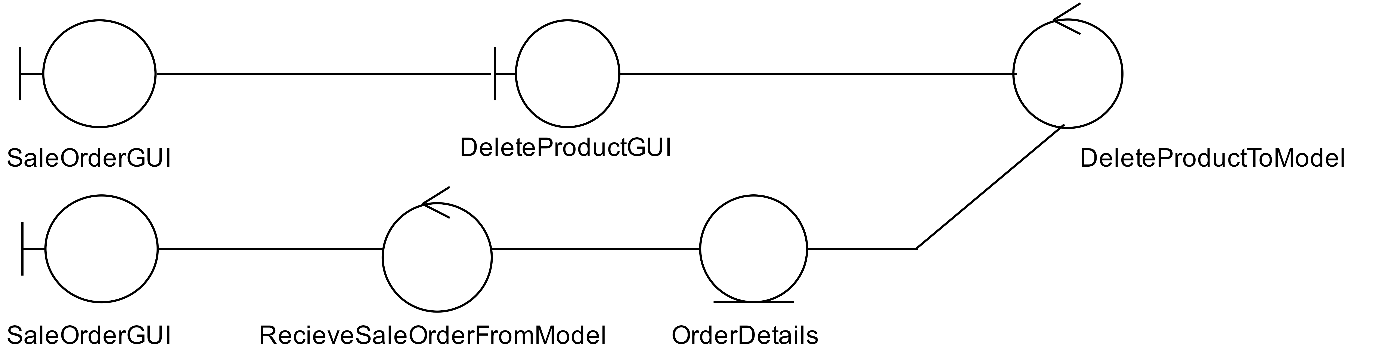
1.1 Create sale order



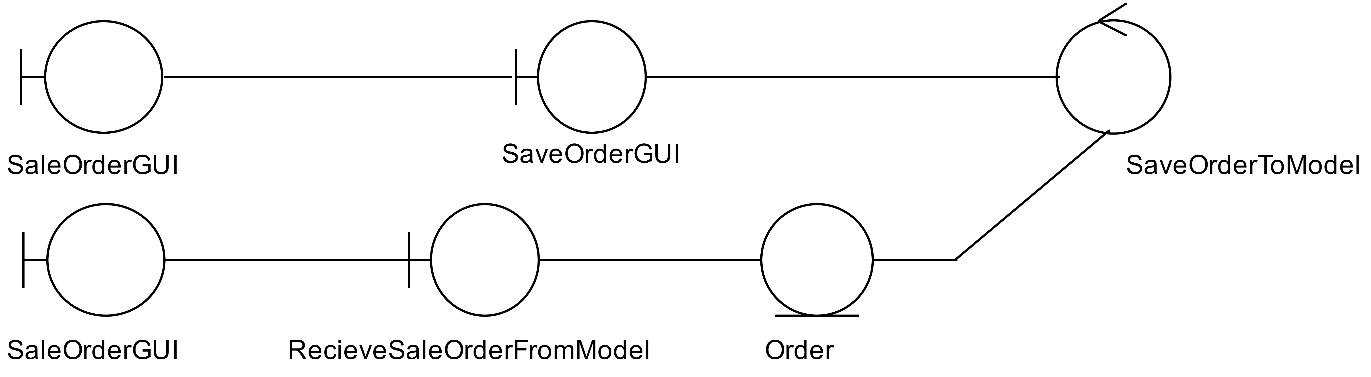
1.2 Add products to orders



1.3 Delete products from orders

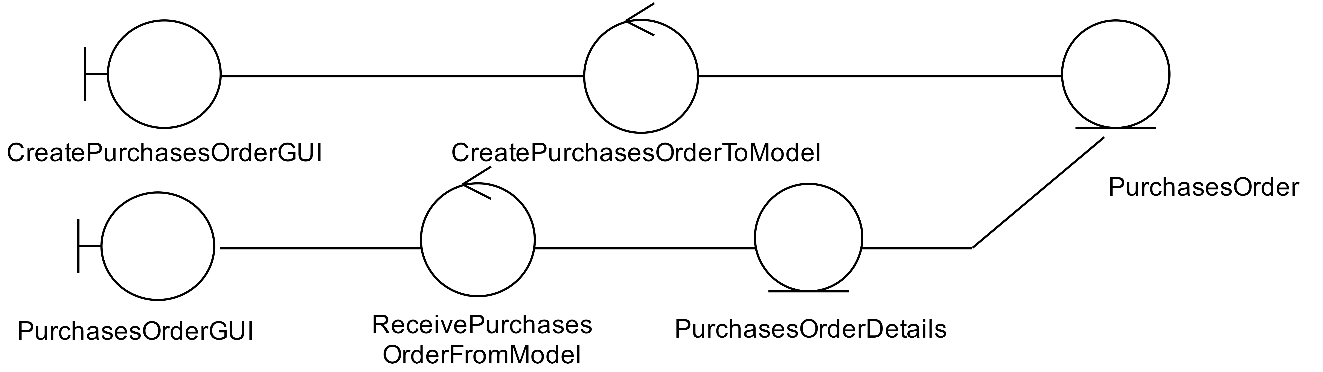


1.4 Save orders to database

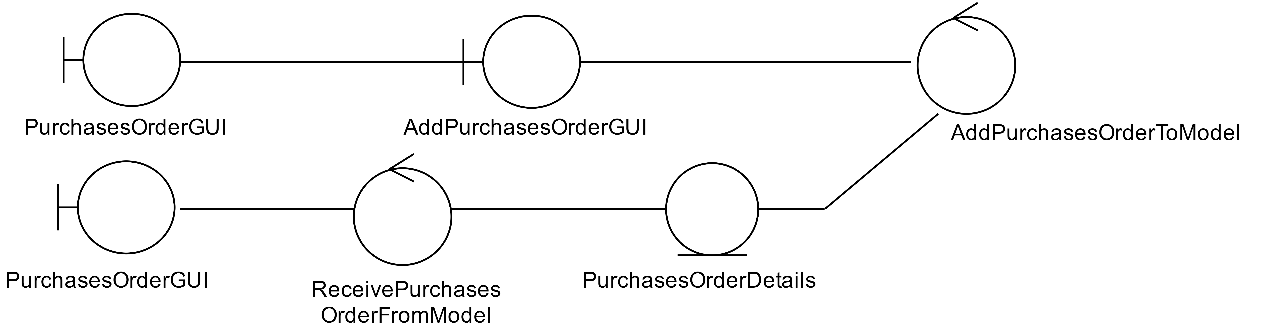


## **2. MVC Model:** Purchases Order Management Sub-System

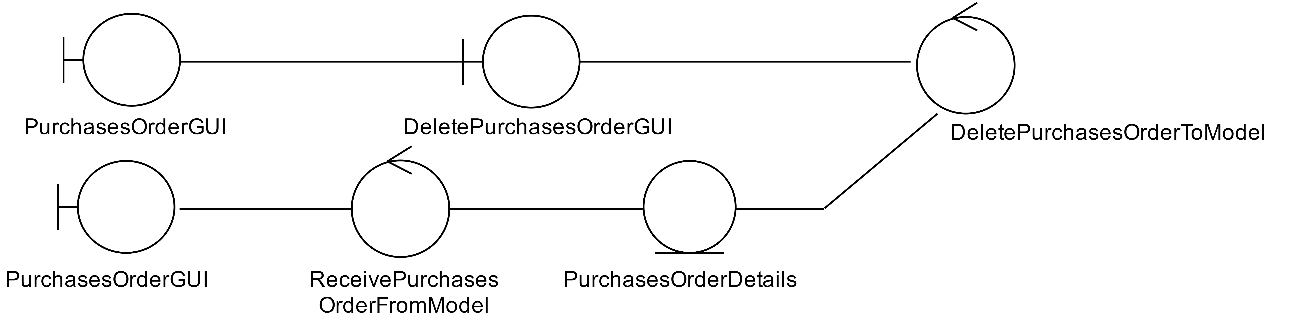
2.1 Create purchases order



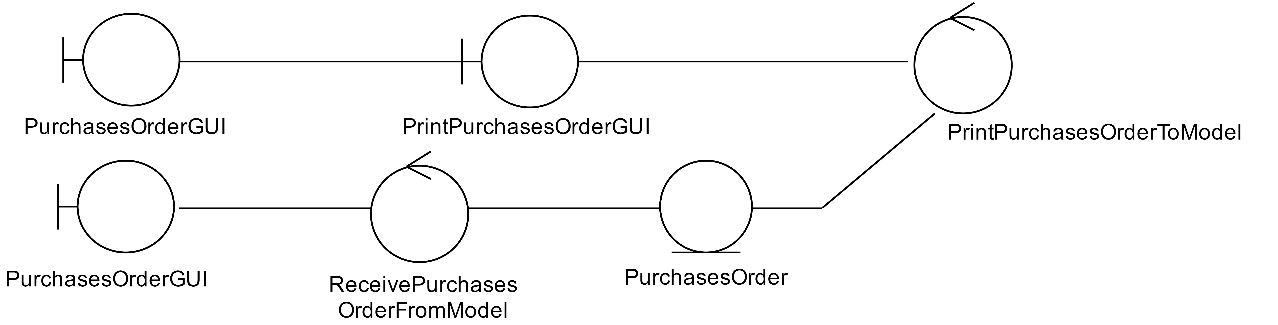
2.2 Add products to purchases orders



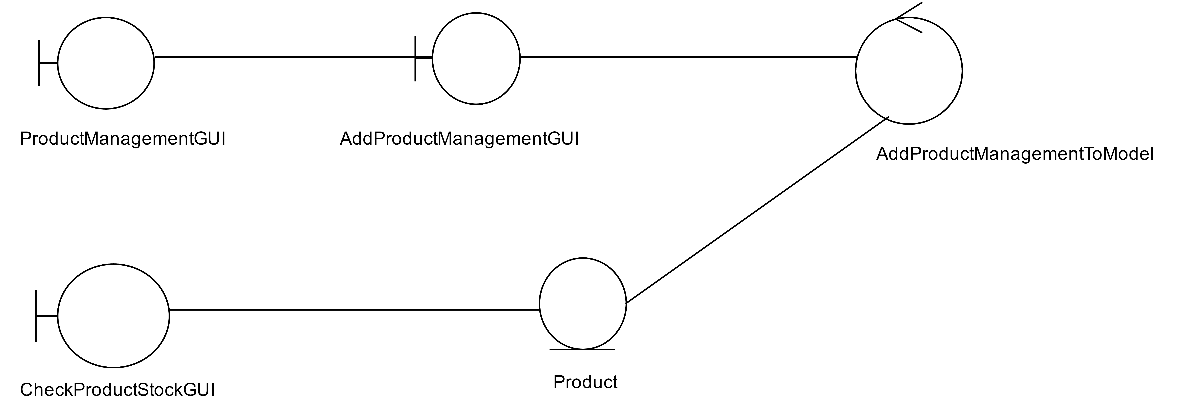
2.3 Delete products from purchases order



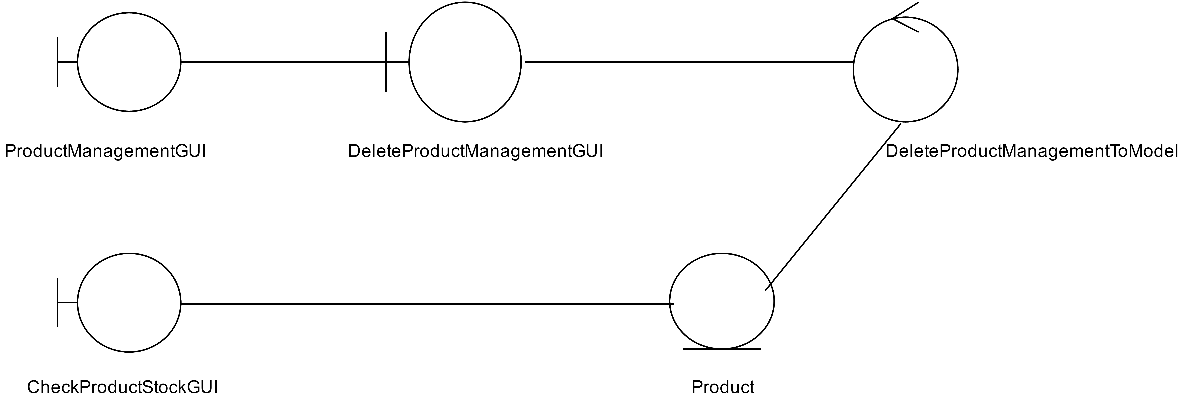
2.4 Print purchases order

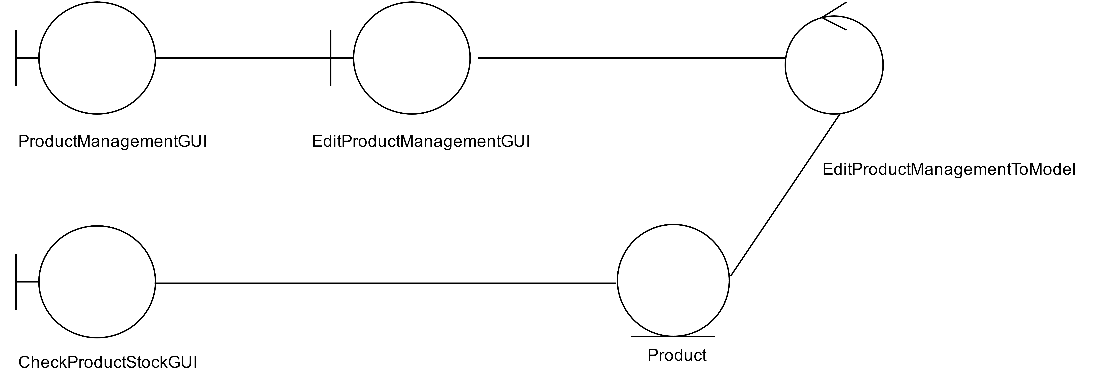
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## **3. MVC Model:** Products Management Sub-System Sub-System

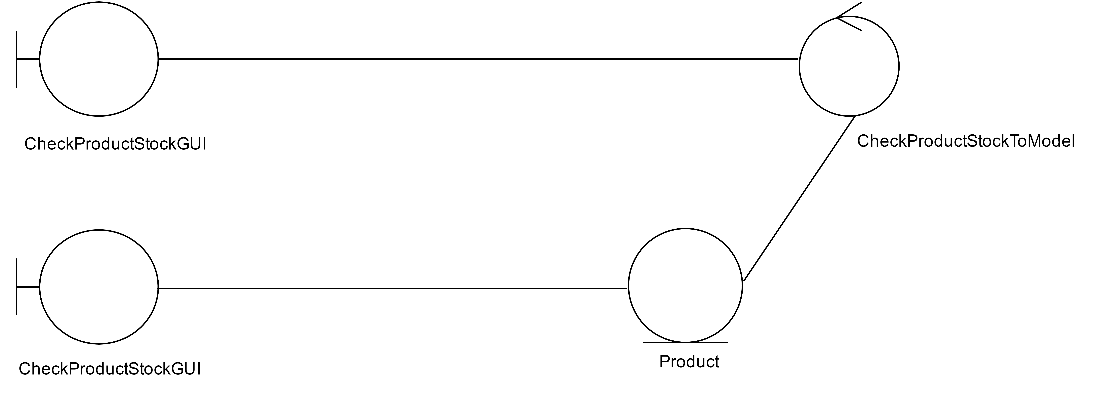
3.1 Add new product  
 

3.2 Delete product list

  
  
3.3 Edit product list

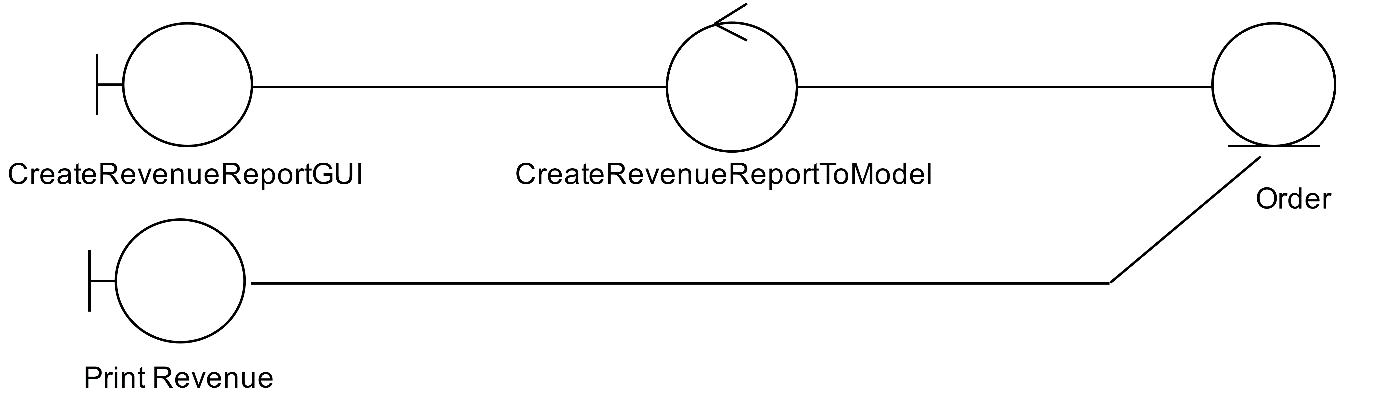


3.4 Check product stock

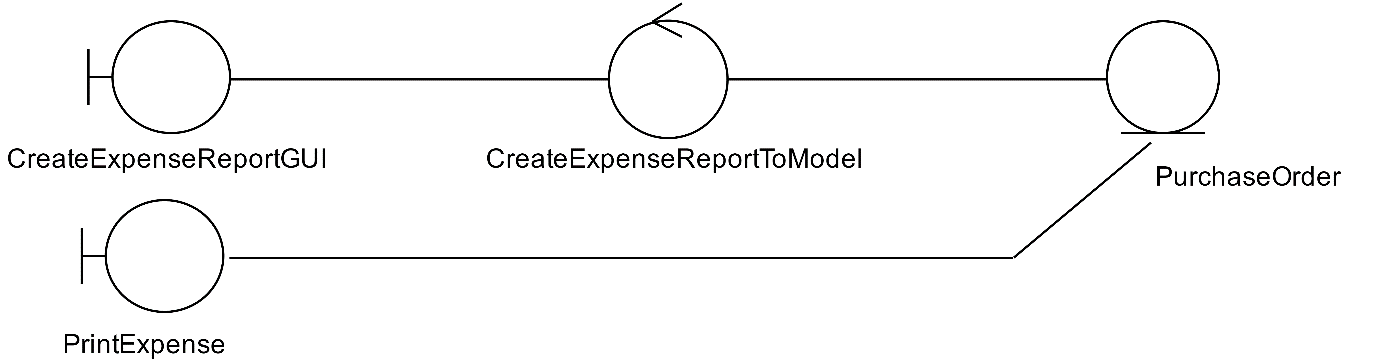


## **4. MVC Model:** Accounting Management Sub-System

4.1 Create revenue report and print revenue report



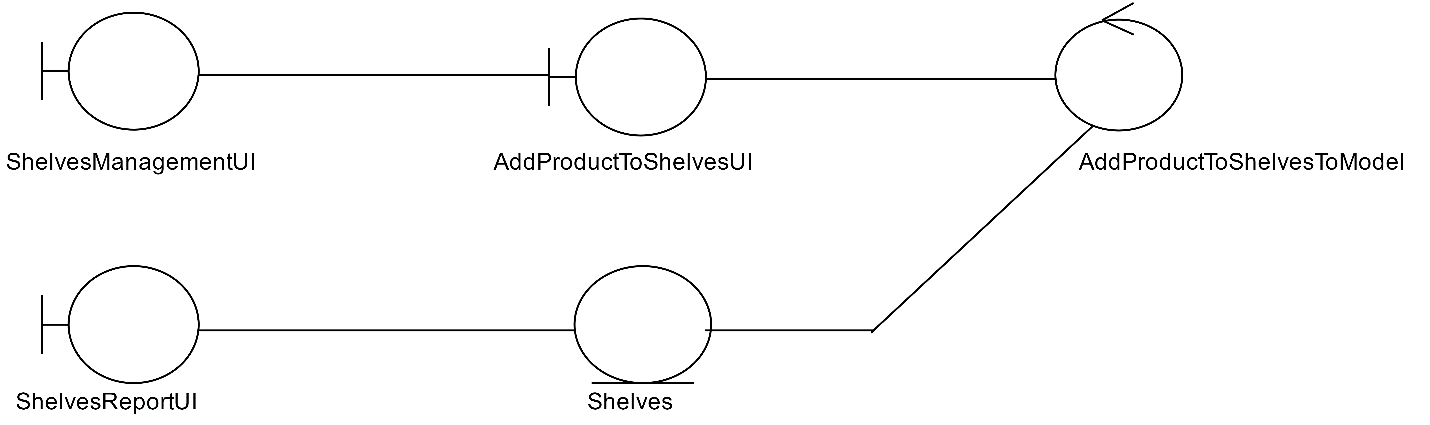
4.2 Create expenses report and print expense report



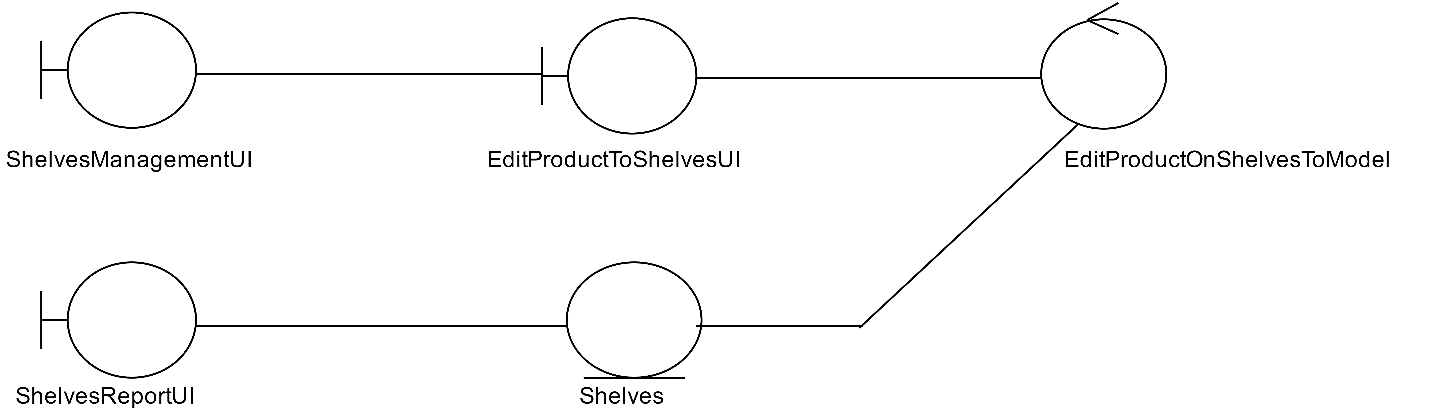
## **5. MVC Model:** Inventory Management Sub-System

5.1 Management product on the shelves

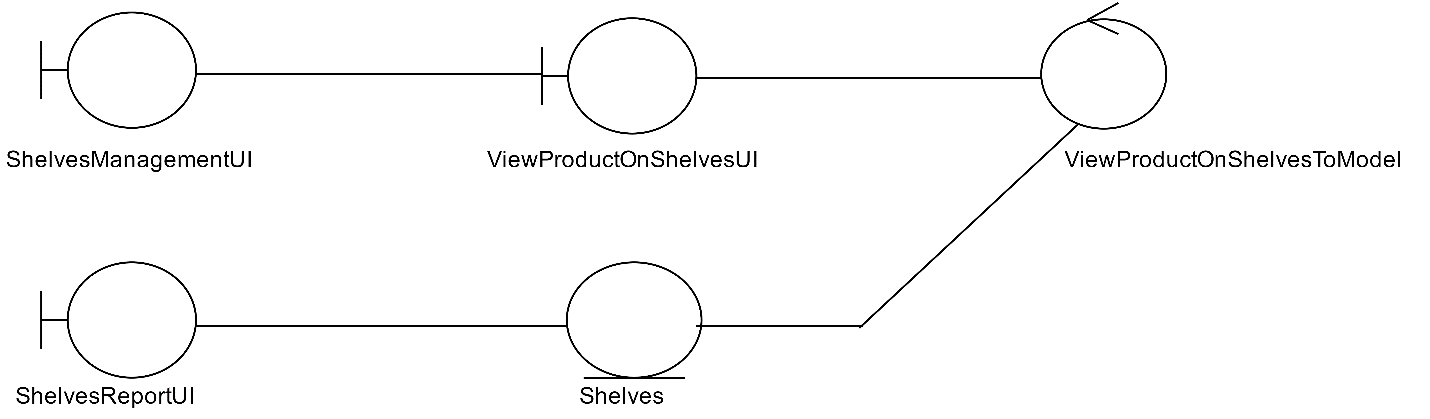
5.1.1 Add Product on Shelves



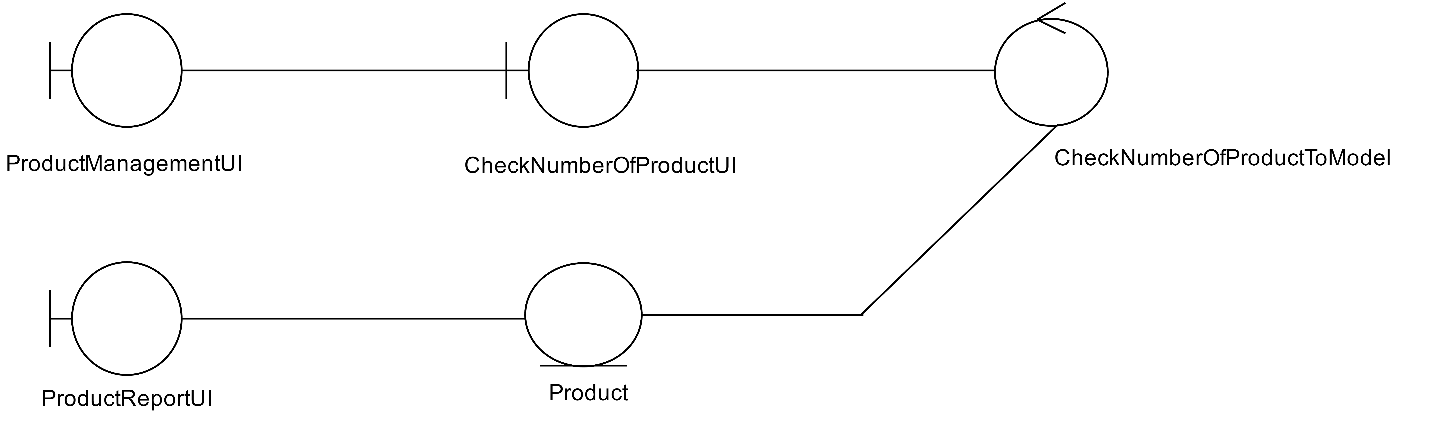
5.1.2 Edit Product on Shelves



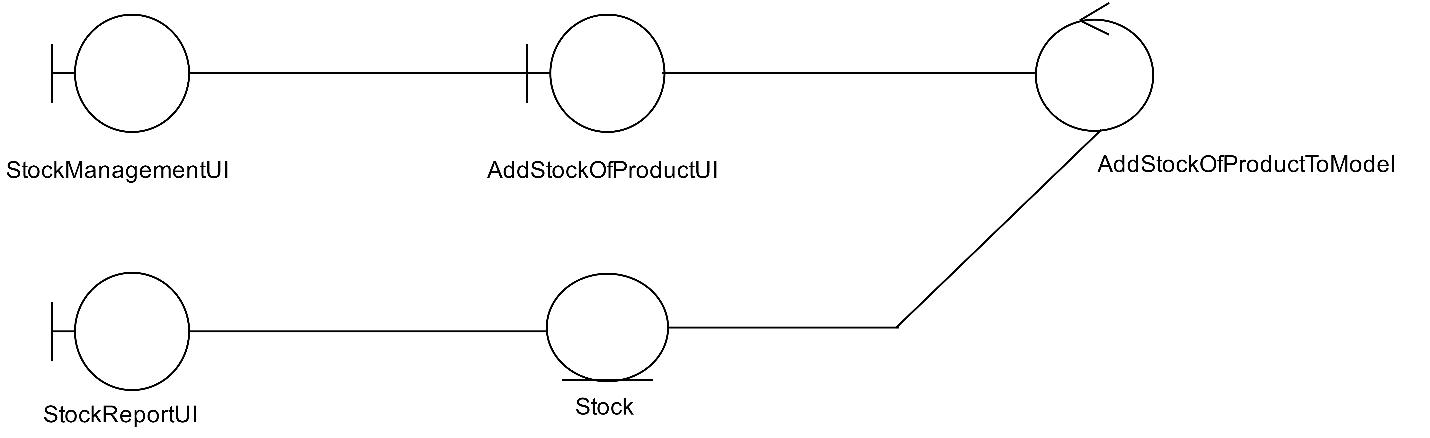
5.1.3 View Product on Shelves



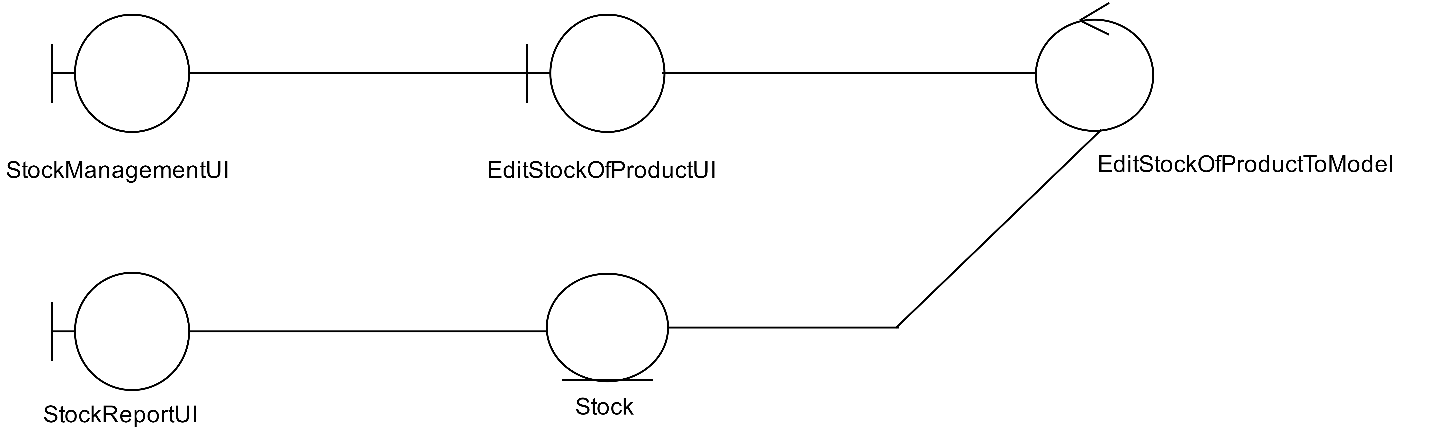
5.2 Check Number Of Product



5.3 Add Stock Of Product

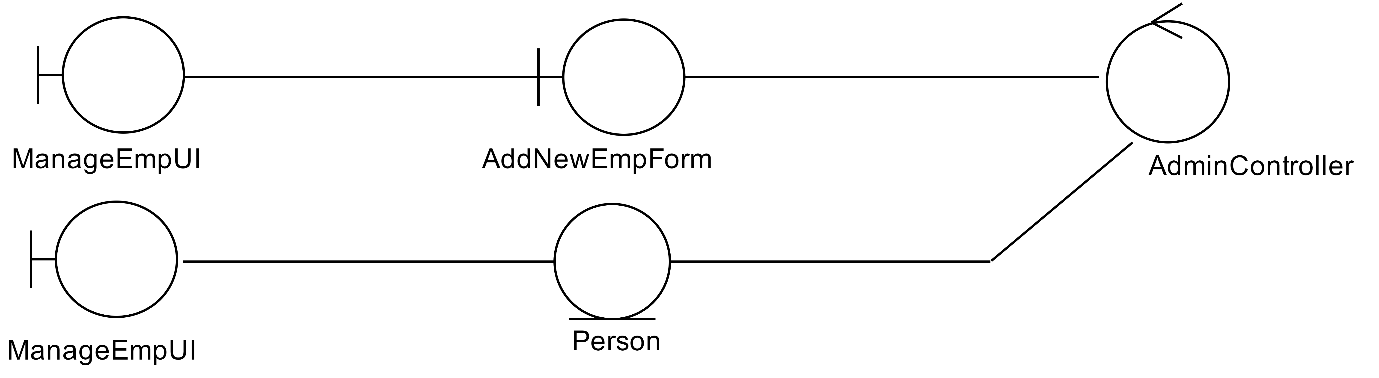


5.4 Edit Stock Of Product

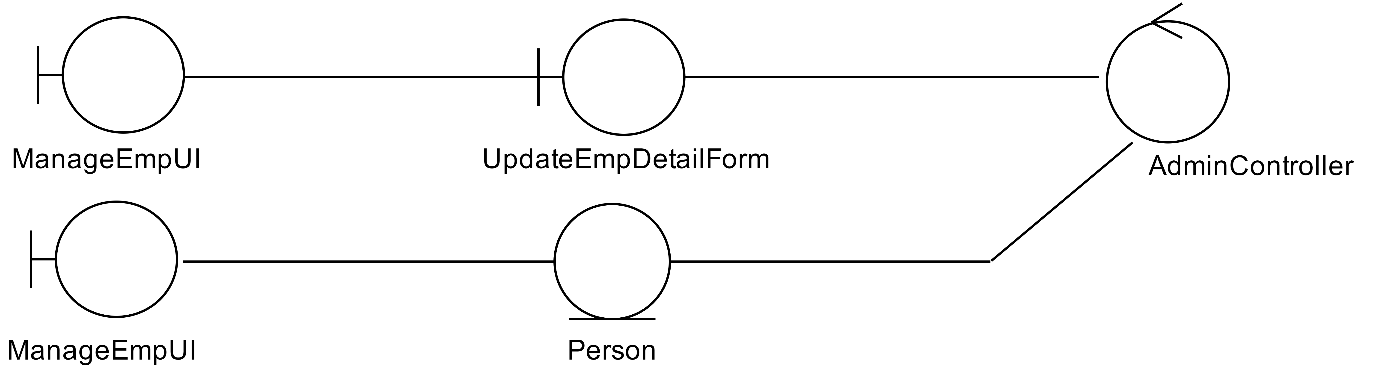


## **6. MVC Model:** Staff Management Sub-System

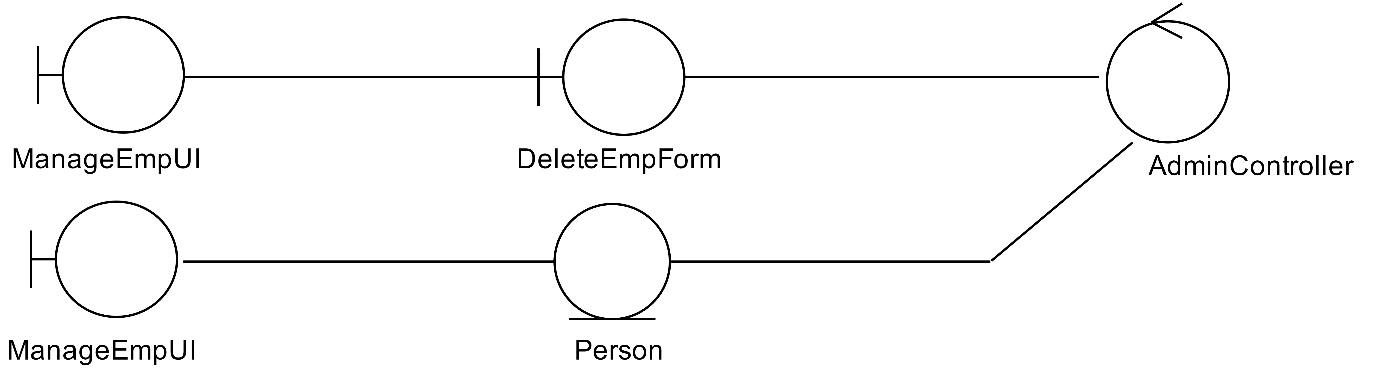
6.1 Add new employee details



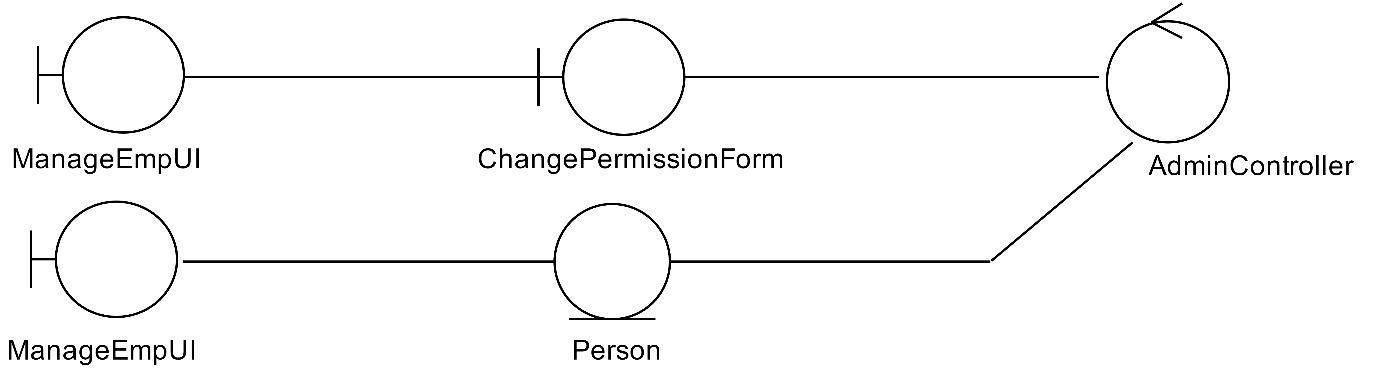
6.2 Edit employee details



6.3 Delete employee details

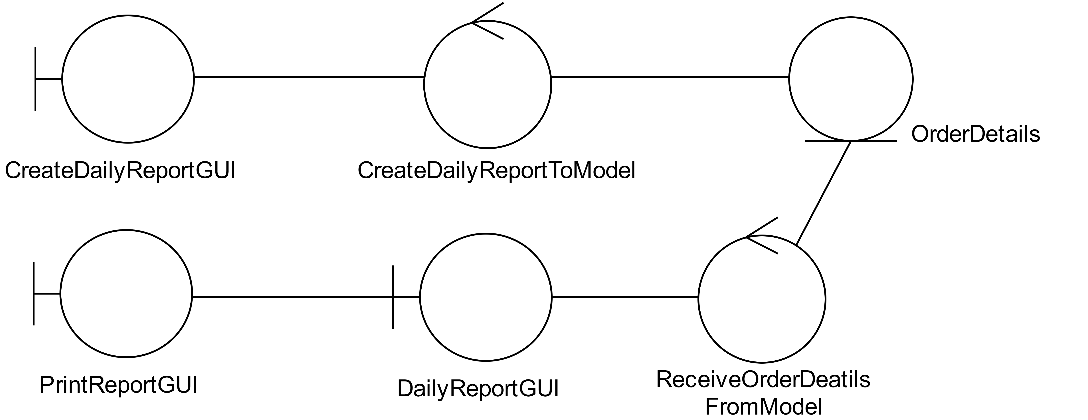


6.4 Change permission of employees

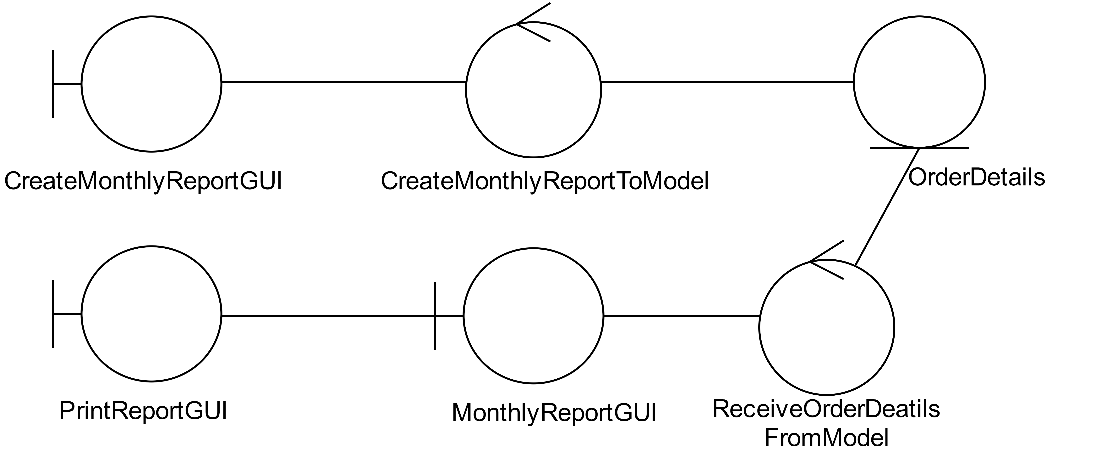
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## **7. MVC Model:** Report Management Sub-System

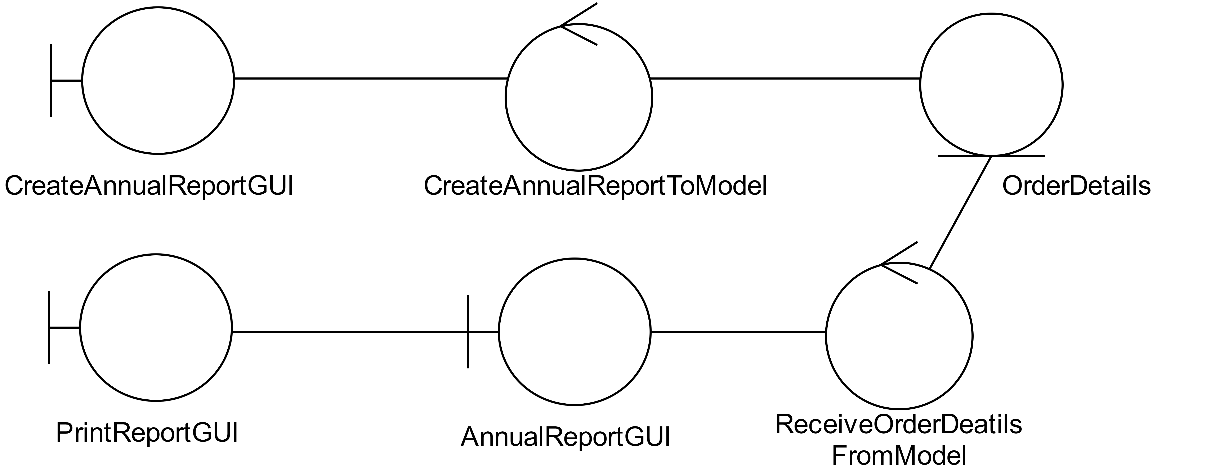
7.1 Create daily sales report and Print daily sale report



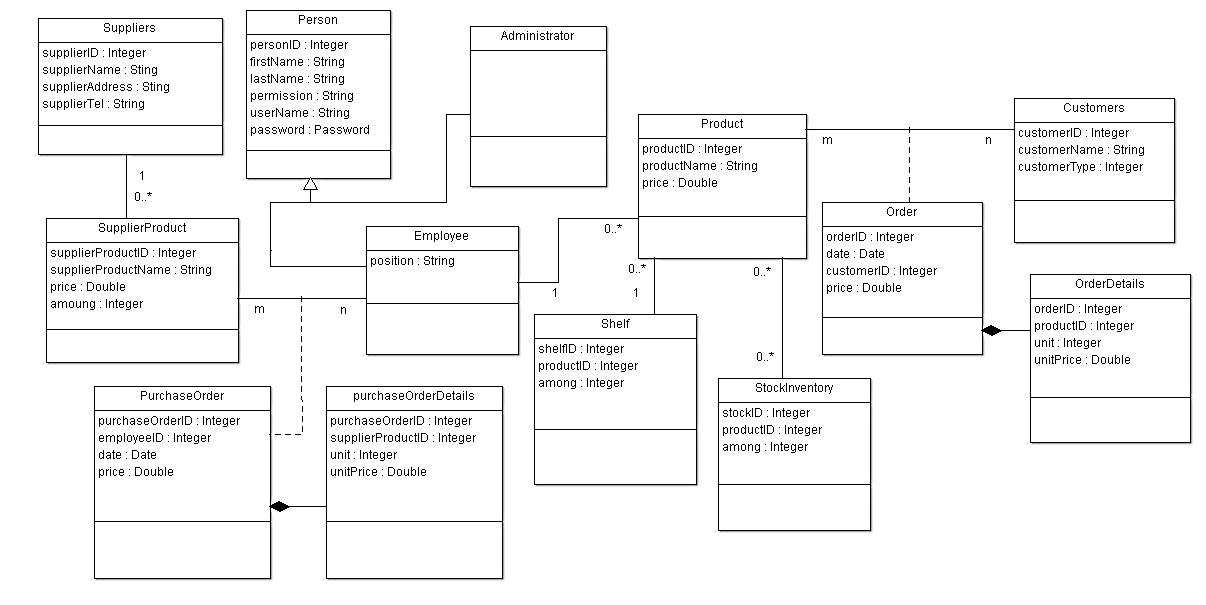
7.2 Create monthly sales report and Print monthly sale report



7.3 Create annual sales report and Print annual sale report



## 4.2 Entity Class Model

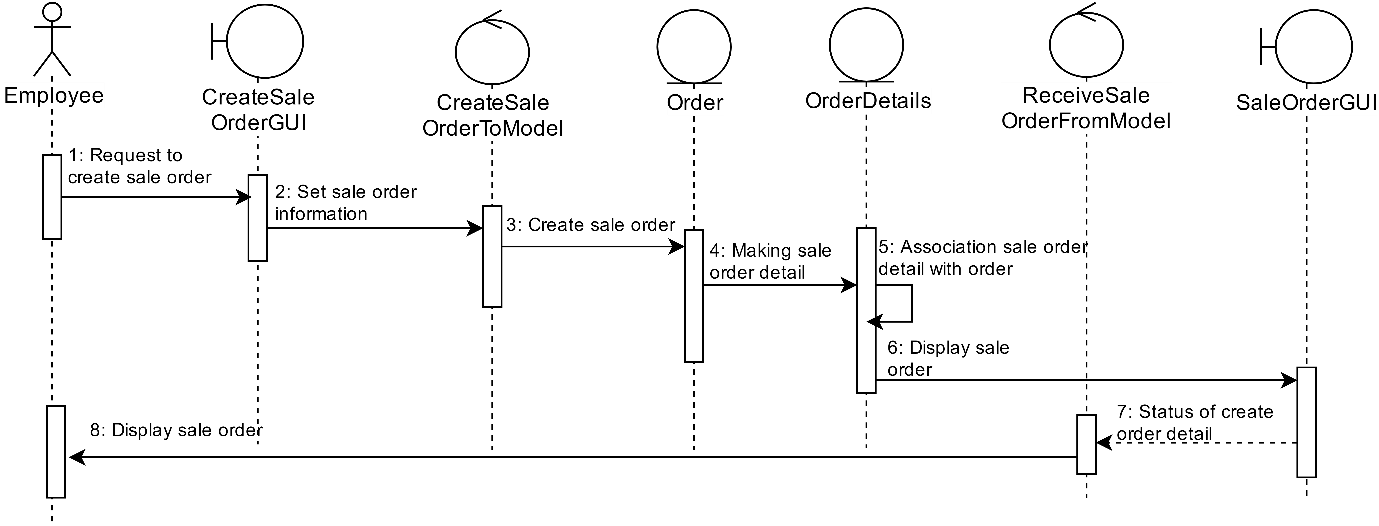
Then, a set of conceptual entity and data model is described by “Entity Class Diagram”. The relationship between each entity class must be specified.

# System Behaviour Model

This section should describe the system behaviour by using a sequence diagram. This diagram must demonstrate the interaction among objects of the system in time sequence. The objects and classes involved the scenario are depicted. The scenario representing the system behaviour/functionality is demonstrated by the sequence of messages exchanged between the objects. For example:

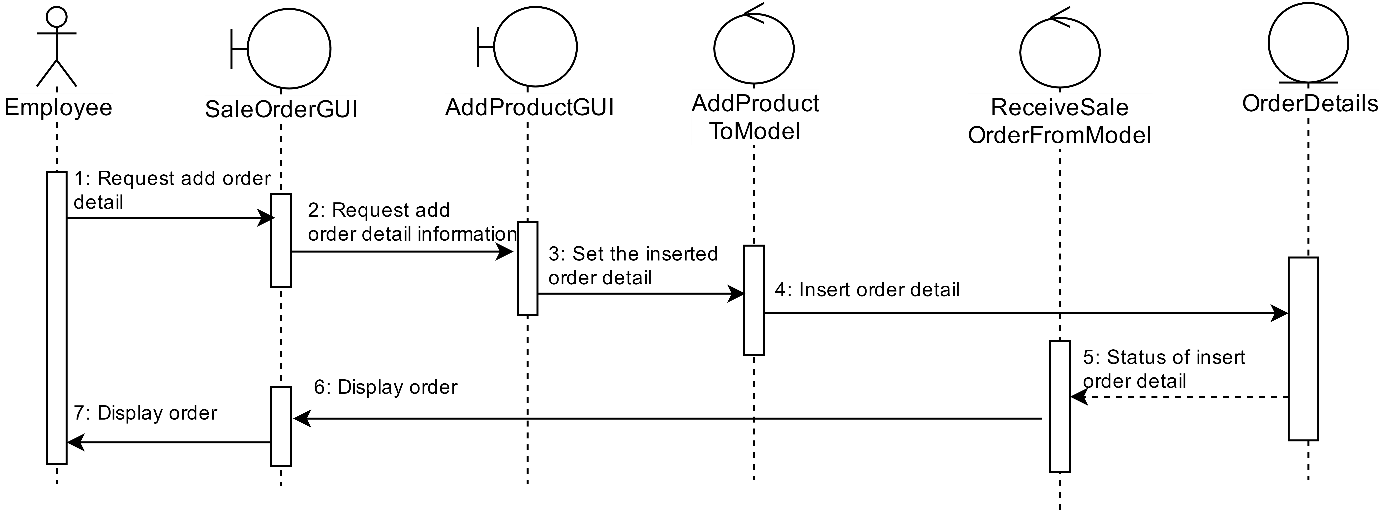
## Sequence Diagram demonstrating operation “Create sale order”

* This diagram describes the system scenario of “**UC110: Create sale order”**

****

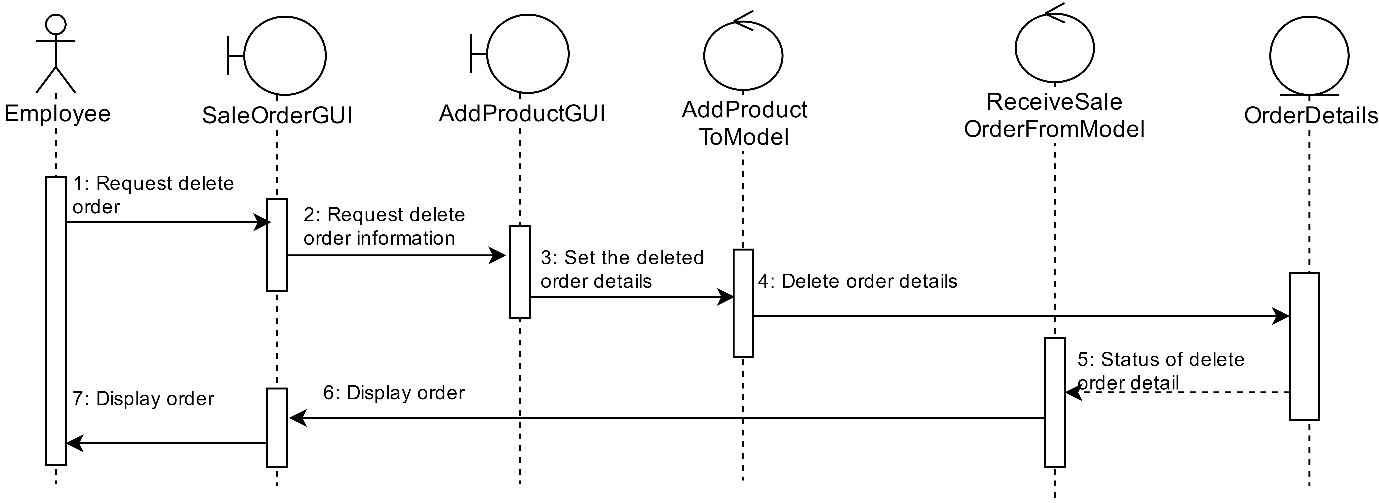
## Sequence Diagram demonstrating operation “Add products to orders”

* This diagram describes the system scenario of “**UC120** **Add products to orders”**

****

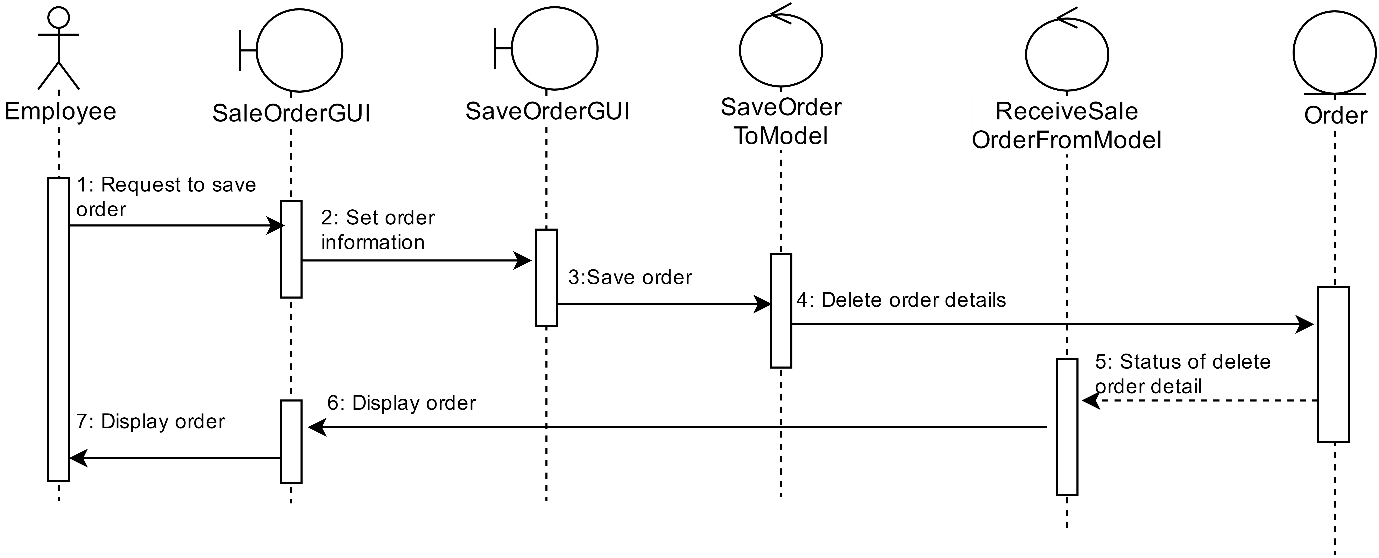
## Sequence Diagram demonstrating operation “Delete products from orders”

* This diagram describes the system scenario of “**UC130: Delete products from orders”**

****

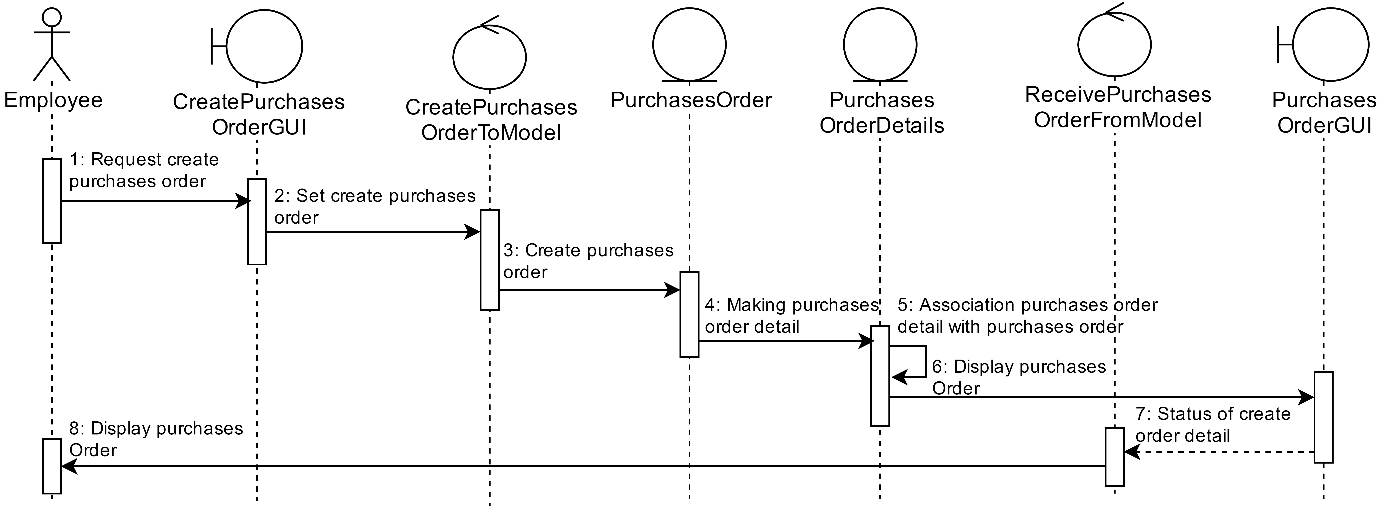
## Sequence Diagram demonstrating operation “Save orders to database”

* This diagram describes the system scenario of “**UC140: Save orders”**

****

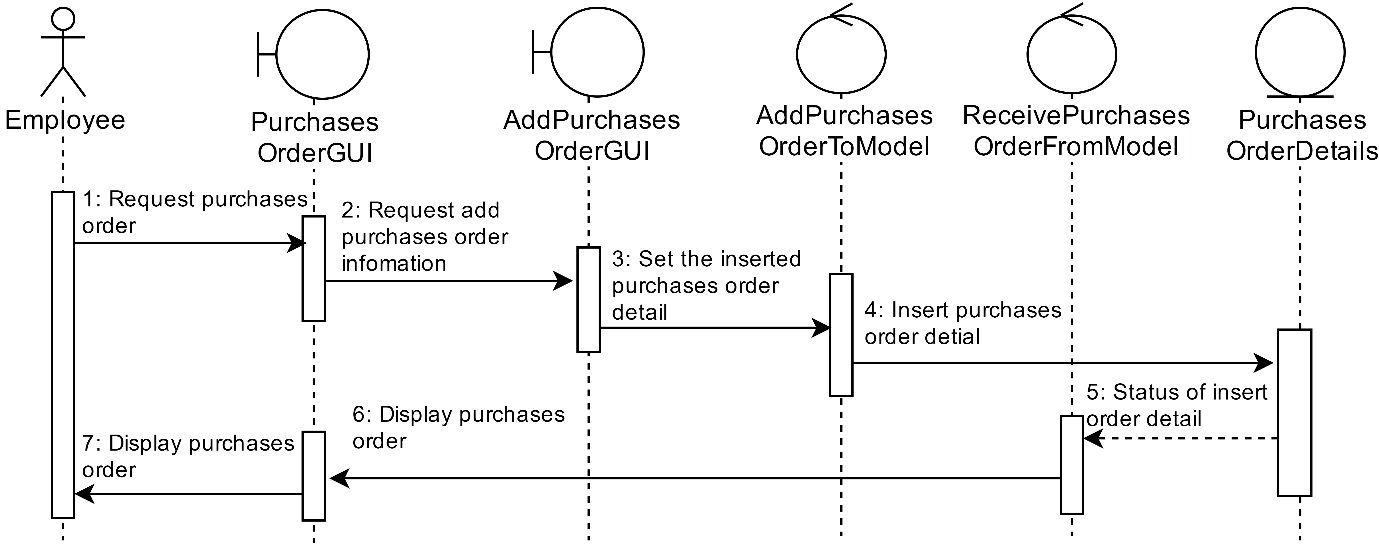
## Sequence Diagram demonstrating operation “Create purchases order”

* This diagram describes the system scenario of “**UC210: Create purchases order”**

****

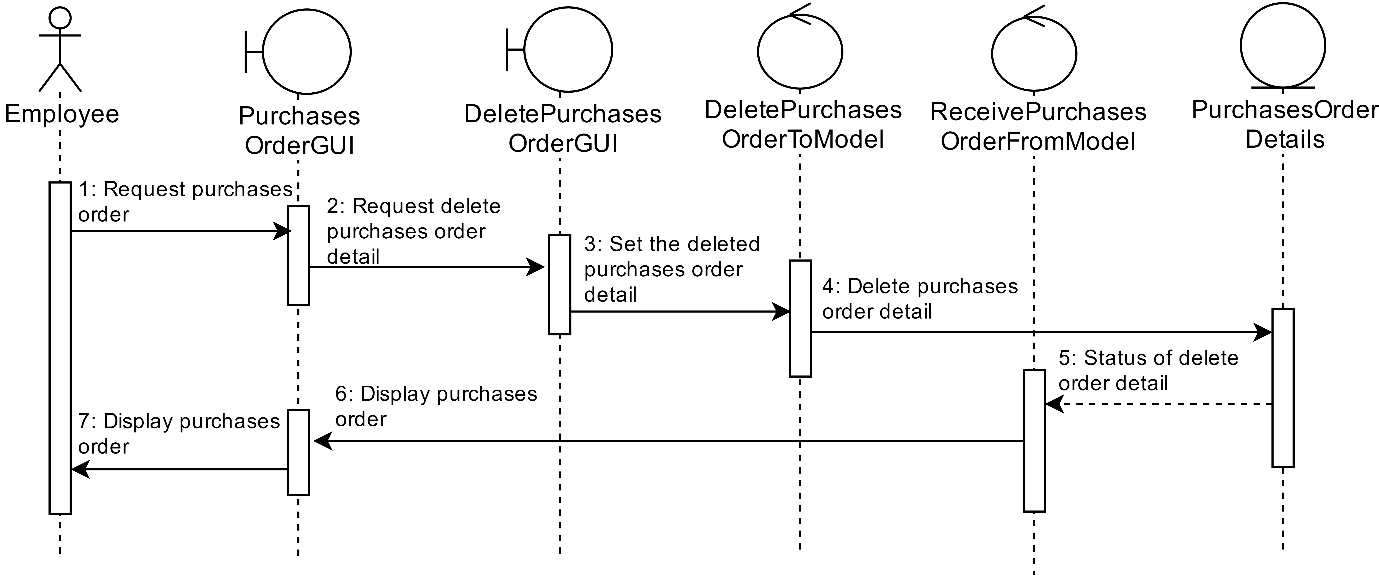
## Sequence Diagram demonstrating operation “Add products to purchases orders”

* This diagram describes the system scenario of “**UC220: Add products to purchases orders”**

****

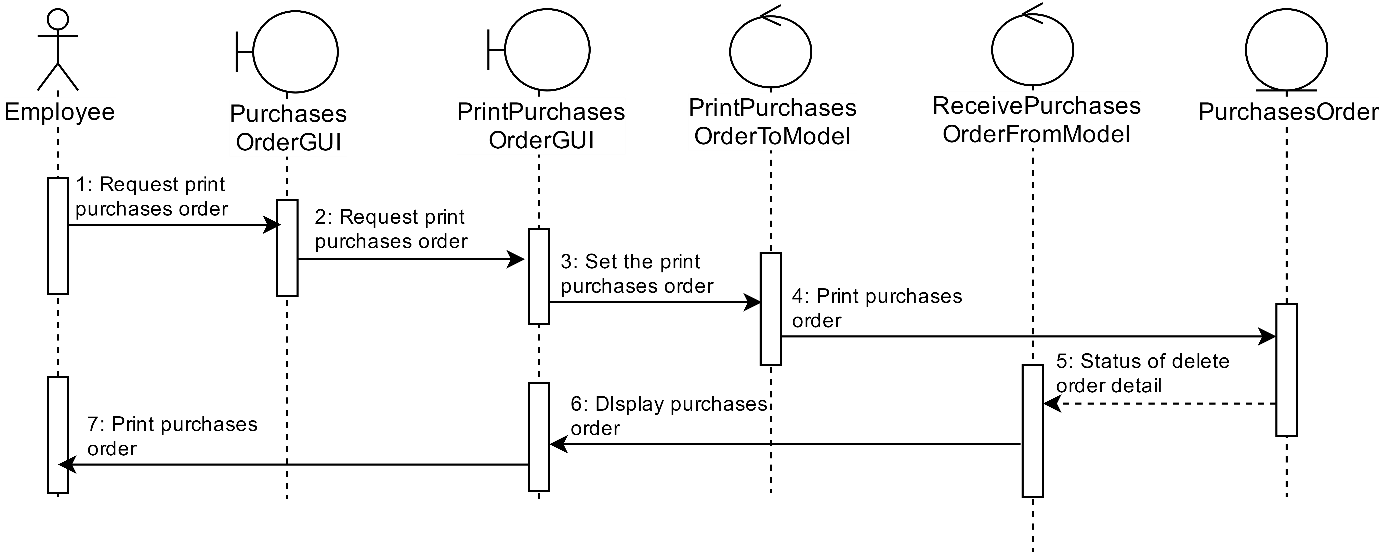
## Sequence Diagram demonstrating operation “Delete products from purchases order”

* This diagram describes the system scenario of “**UC230: Delete products from purchases order”**

****

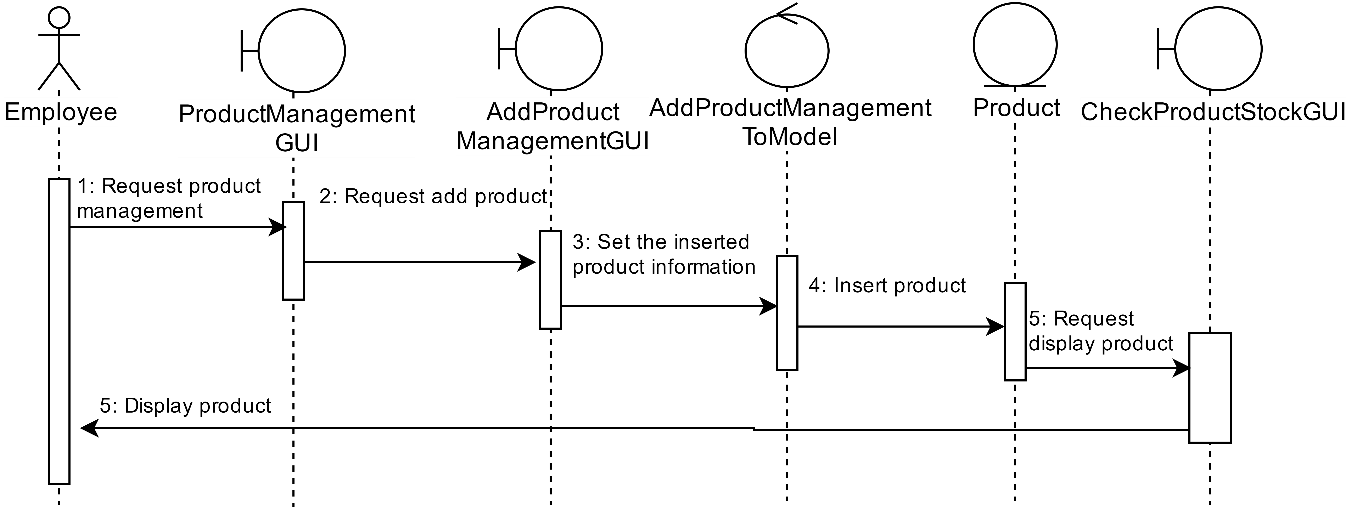
## Sequence Diagram demonstrating operation “Print purchases order”

* This diagram describes the system scenario of “**UC240: Print purchases order”**

****

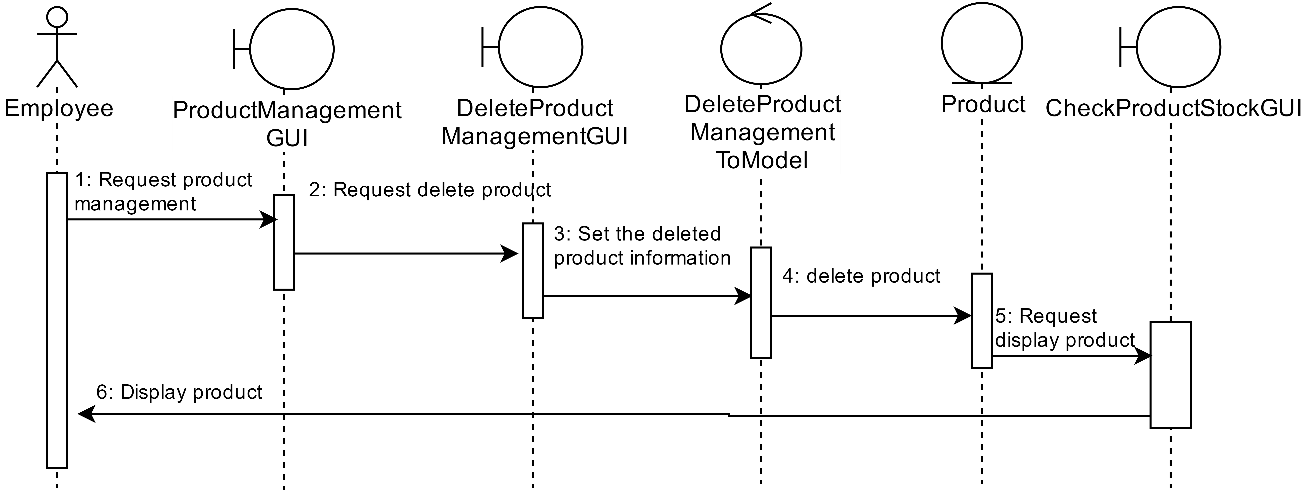
## Sequence Diagram demonstrating operation “Add new product”

* This diagram describes the system scenario of “**UC310: Add new product”**

****

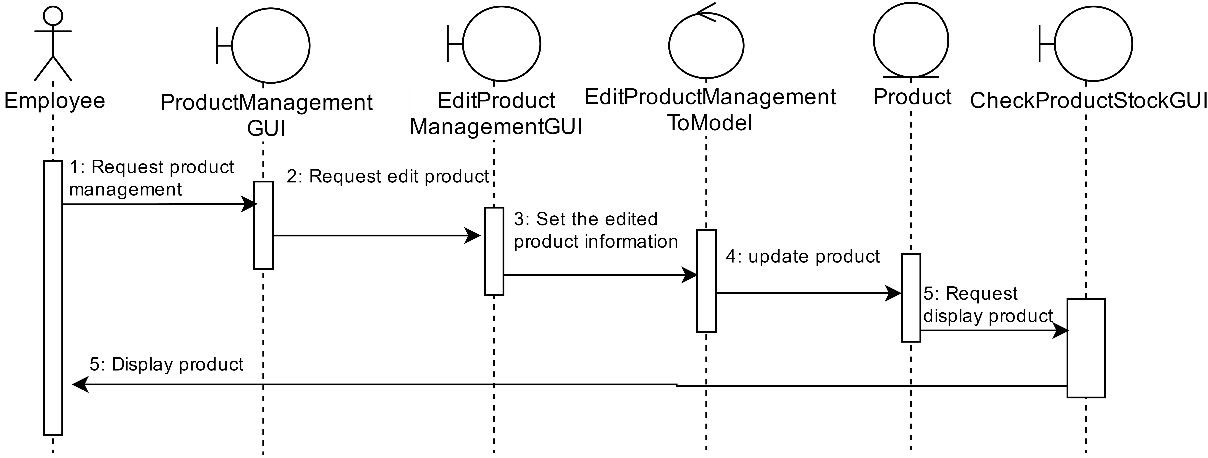
## Sequence Diagram demonstrating operation “Delete product list”

* This diagram describes the system scenario of “**UC320: Delete product list”**

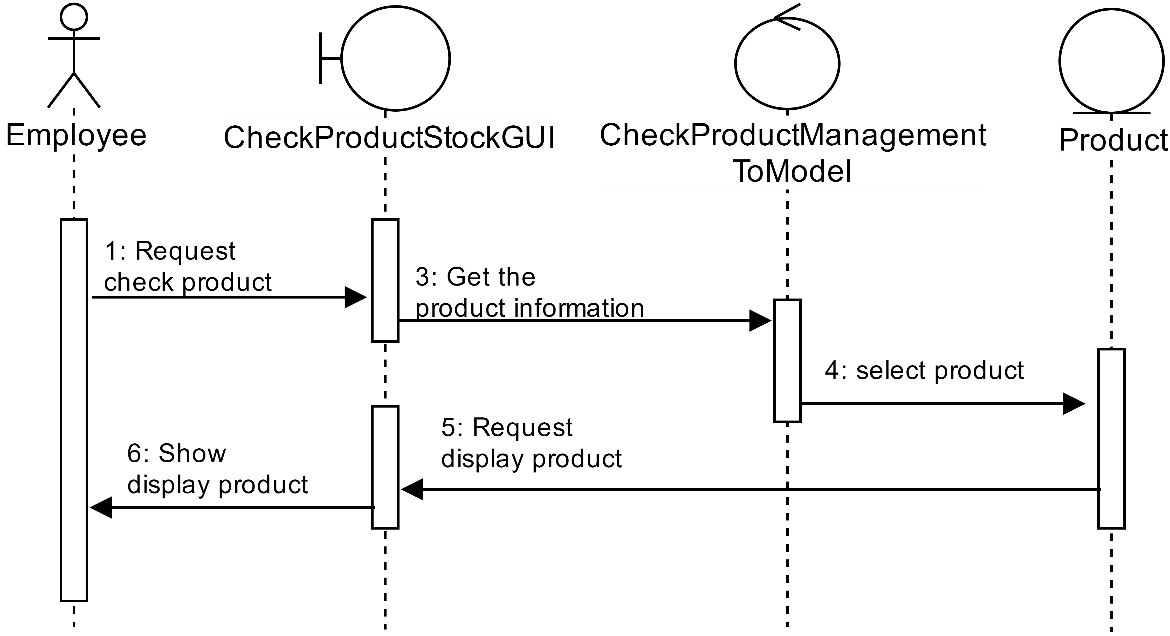
****

## Sequence Diagram demonstrating operation “Edit product list”

* This diagram describes the system scenario of “**UC330: Edit product list”**

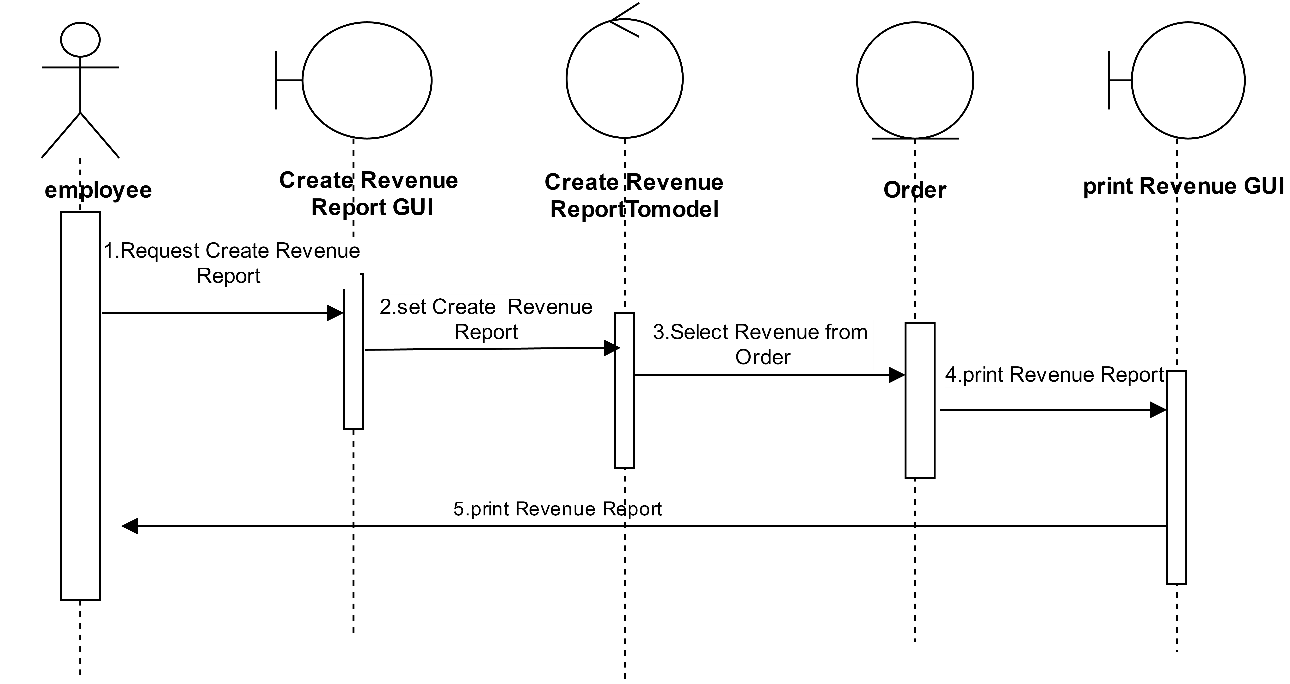
****

## Sequence Diagram demonstrating operation “Check product stock”

* This diagram describes the system scenario of “**UC340: Check product stock”  
  **

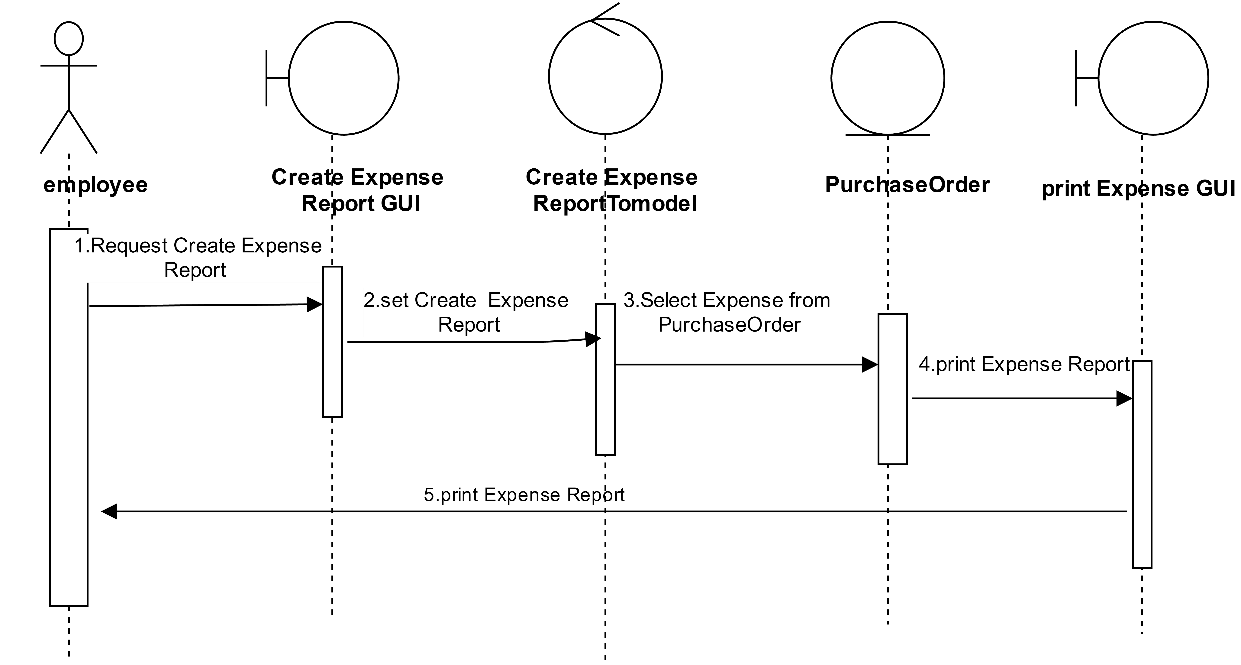
## Sequence Diagram demonstrating operation “Create revenue report and print revenue report”

* This diagram describes the system scenario of “**UC410: Create revenue report”** and“**UC420: Print revenue report”**

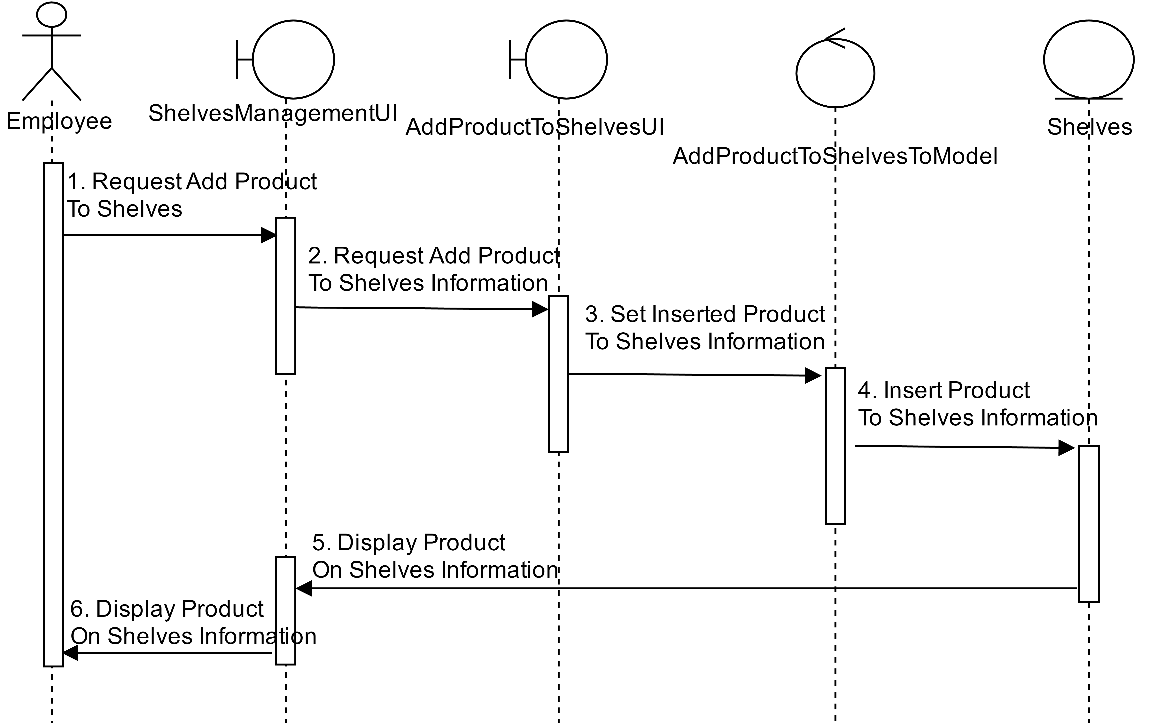
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## Sequence Diagram demonstrating operation “Create expense report and print expense report”

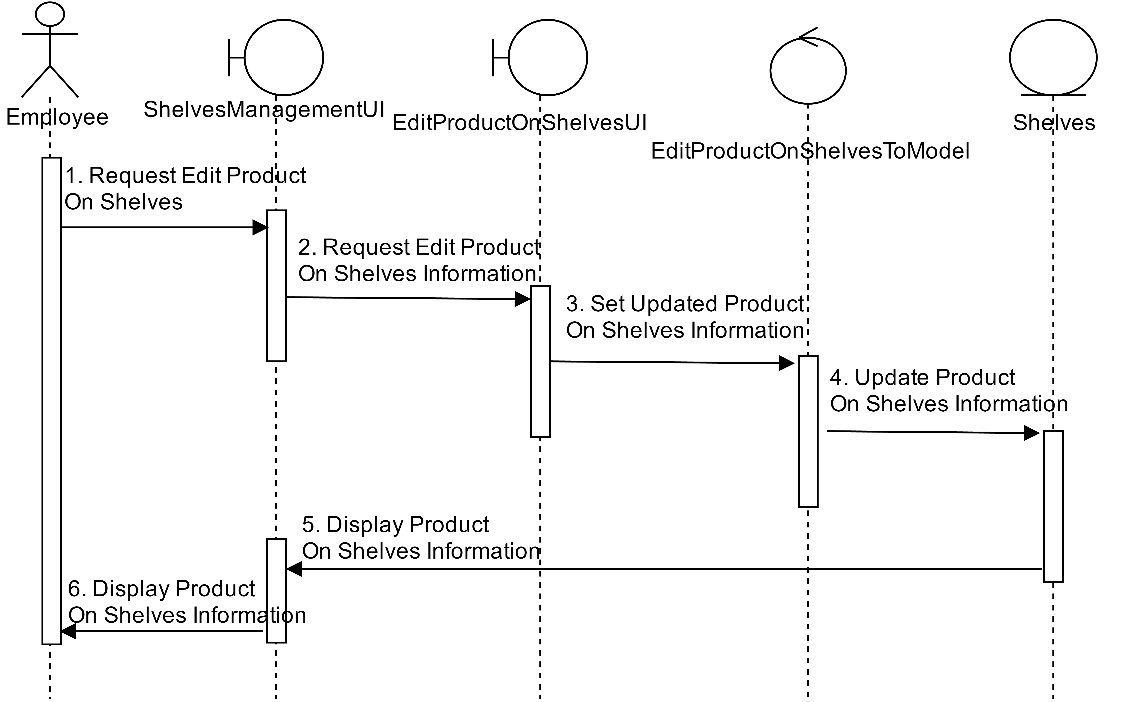
* This diagram describes the system scenario of “**UC430: Create expense report”** and “**UC440: Print expense report”**

****

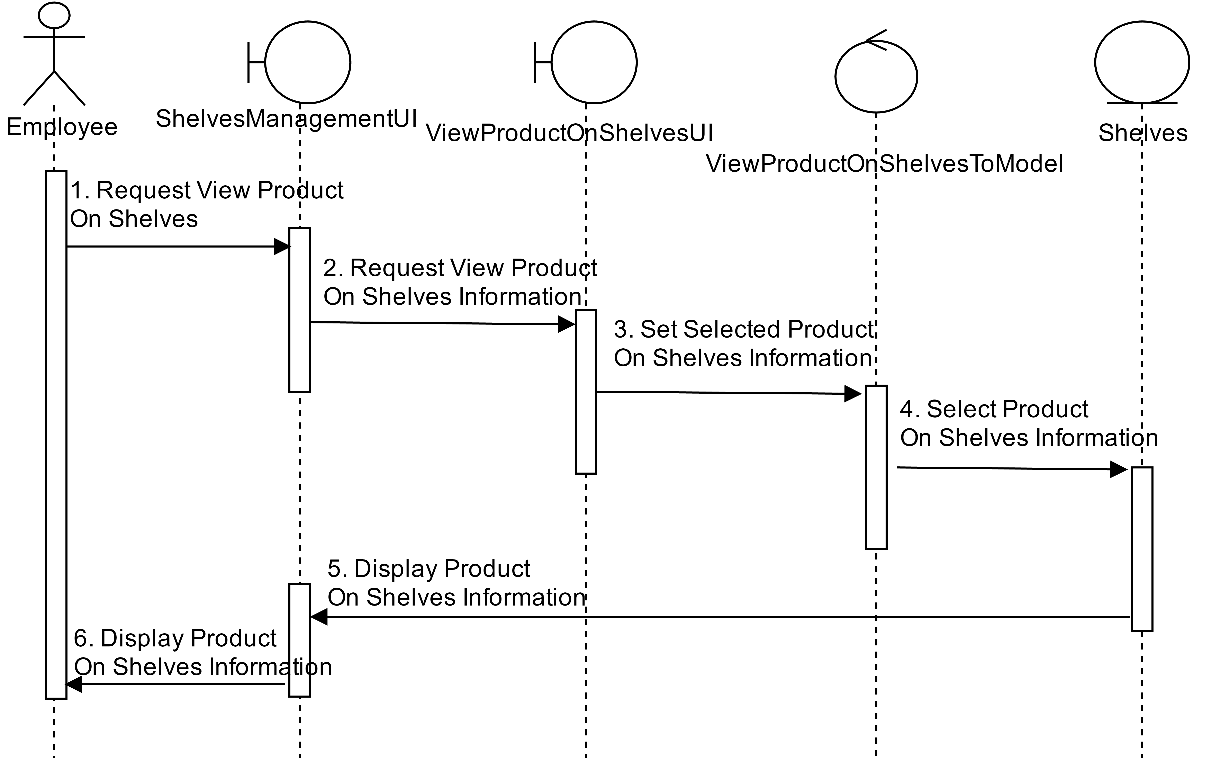
## Sequence Diagram demonstrating operation “Add Product on Shelves”

* This diagram describes the system scenario of “**UC510: Management product on the shelves”**

## Sequence Diagram demonstrating operation “Edit Product on Shelves”

* This diagram describes the system scenario of “**UC510: Management product on the shelves”**

## Sequence Diagram demonstrating operation “View Product on Shelves”

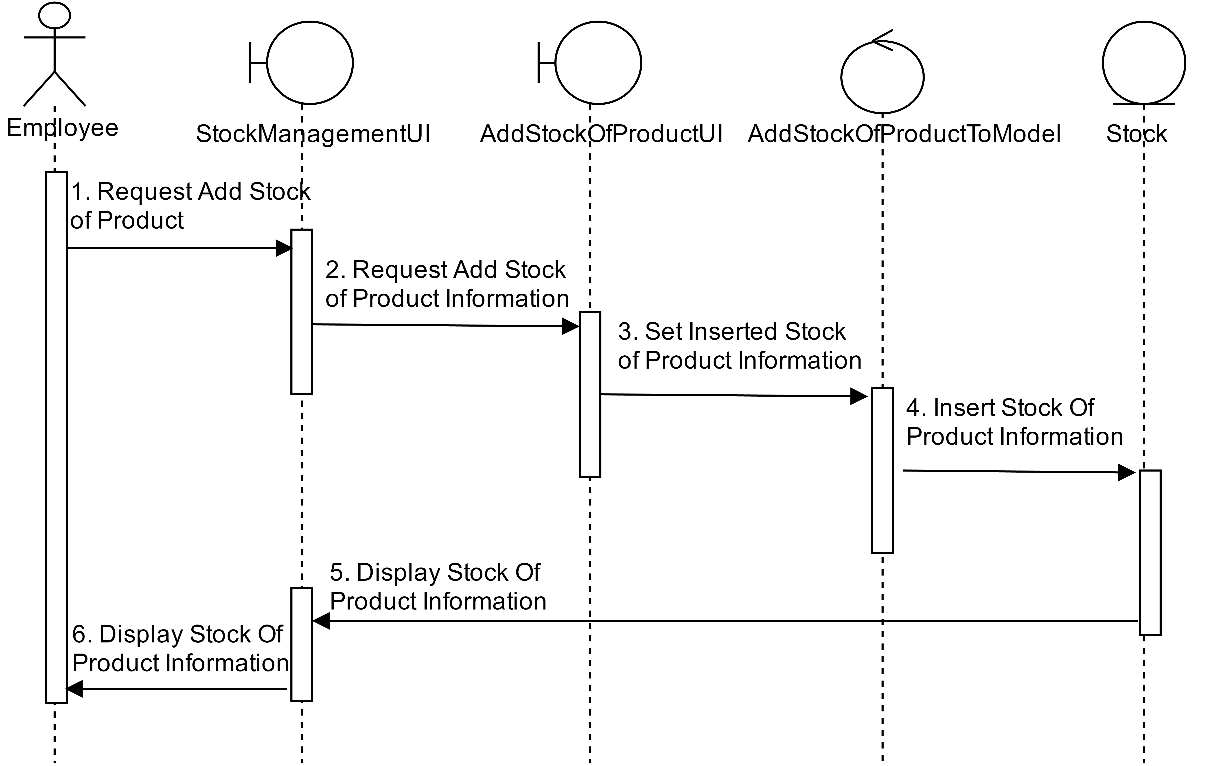
* This diagram describes the system scenario of “**UC510: Management product on the shelves”**

## Sequence Diagram demonstrating operation “Check Number of Product”

* This diagram describes the system scenario of “**UC520: Check Number of Product”**C:\Users\Filmm\AppData\Local\Microsoft\Windows\INetCacheContent.Word\Film (9).png

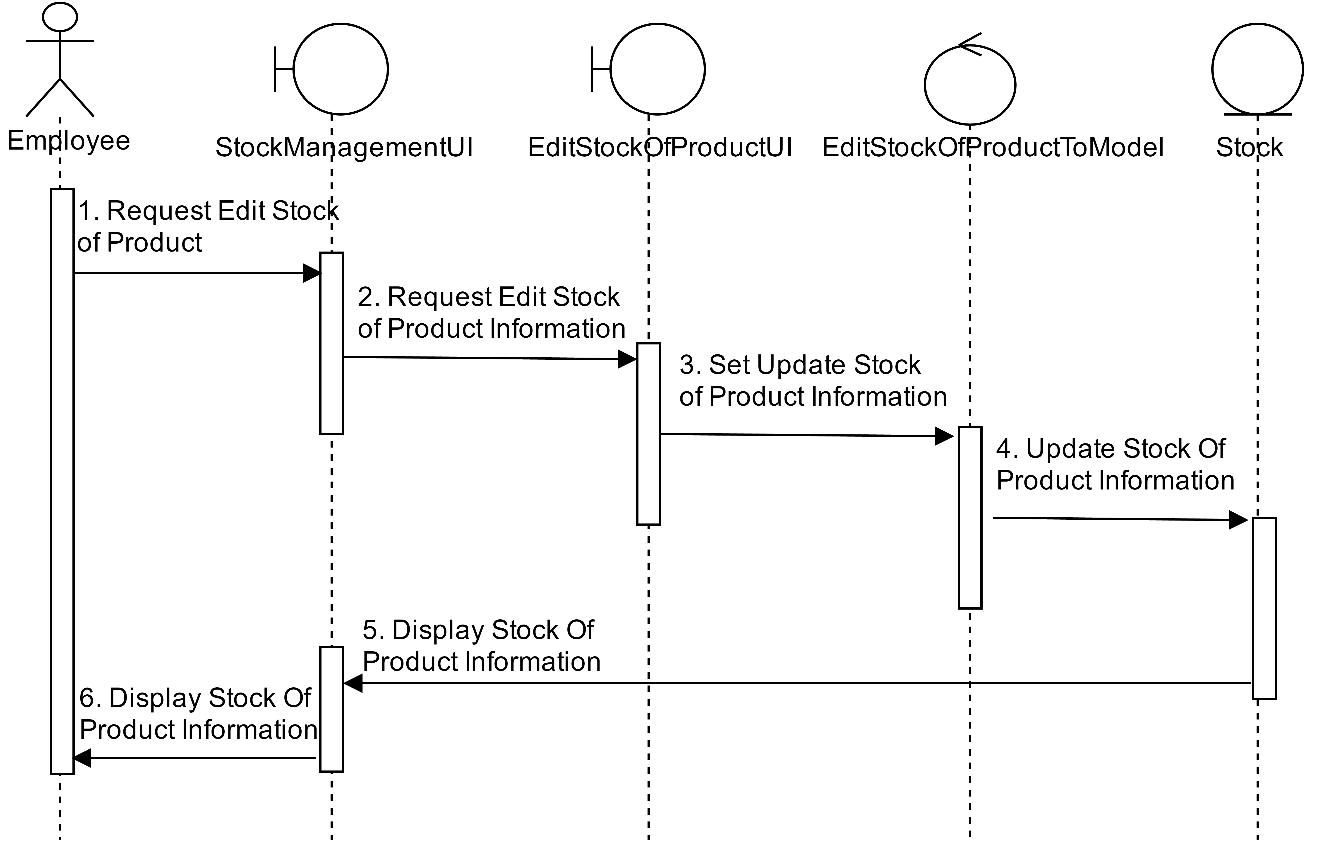
## Sequence Diagram demonstrating operation “Add Stock of Product”

* This diagram describes the system scenario of “**UC530: Add Stock of Product list”**



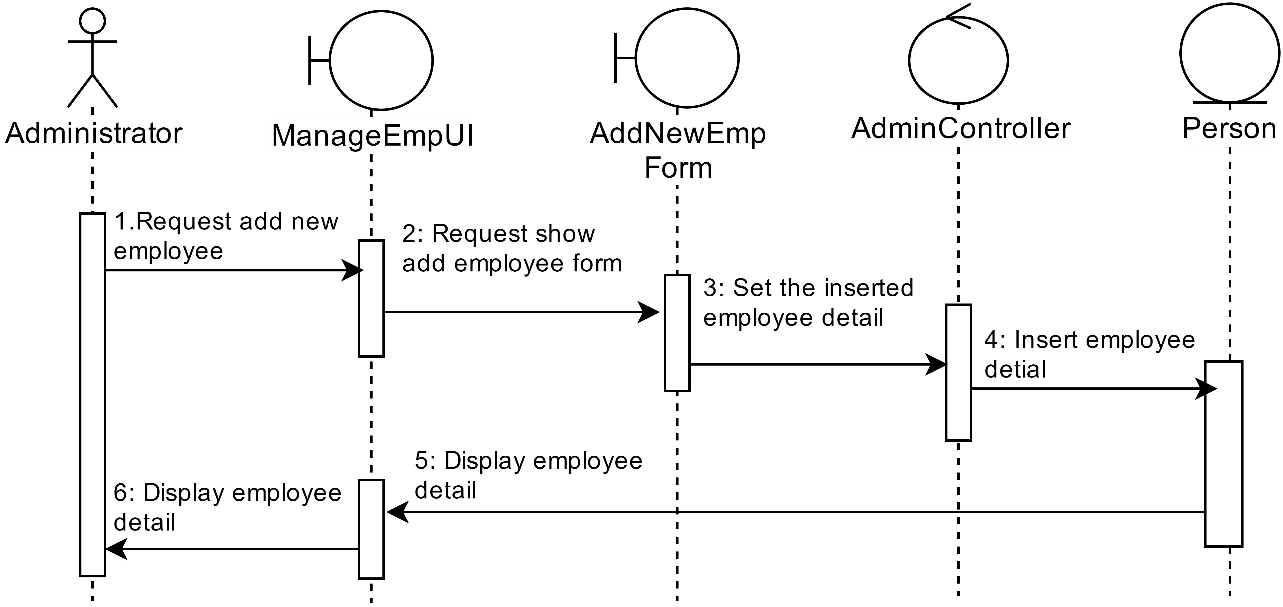
## Sequence Diagram demonstrating operation “Edit Stock of Product”

* This diagram describes the system scenario of “**UC540: Edit Stock of Product”**



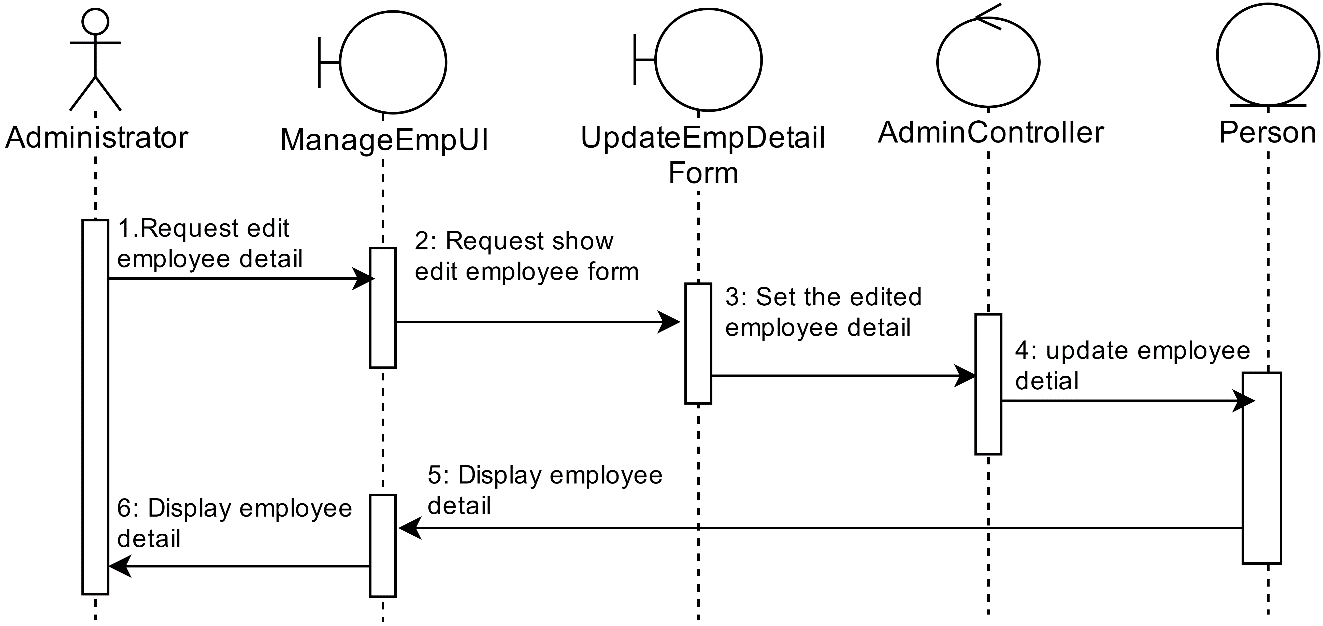
## Sequence Diagram demonstrating operation “Add new employee details”

* This diagram describes the system scenario of “**UC610: Add new employee details”**

****

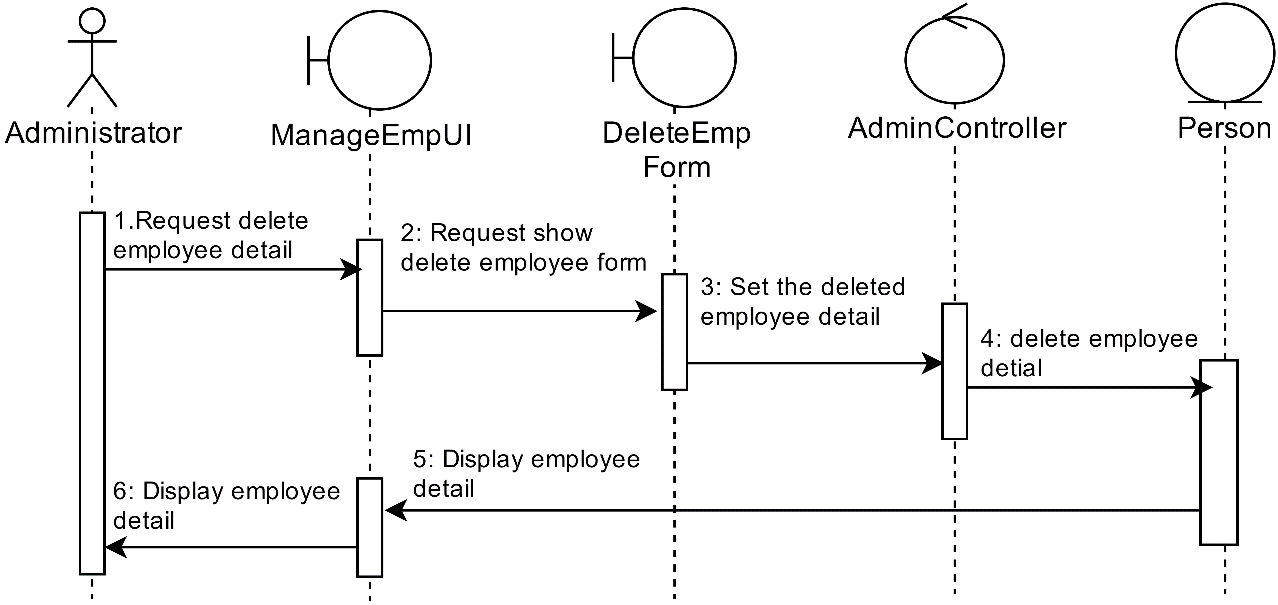
## Sequence Diagram demonstrating operation “Edit employee details”

* This diagram describes the system scenario of “**UC620: Edit employee details”**

****

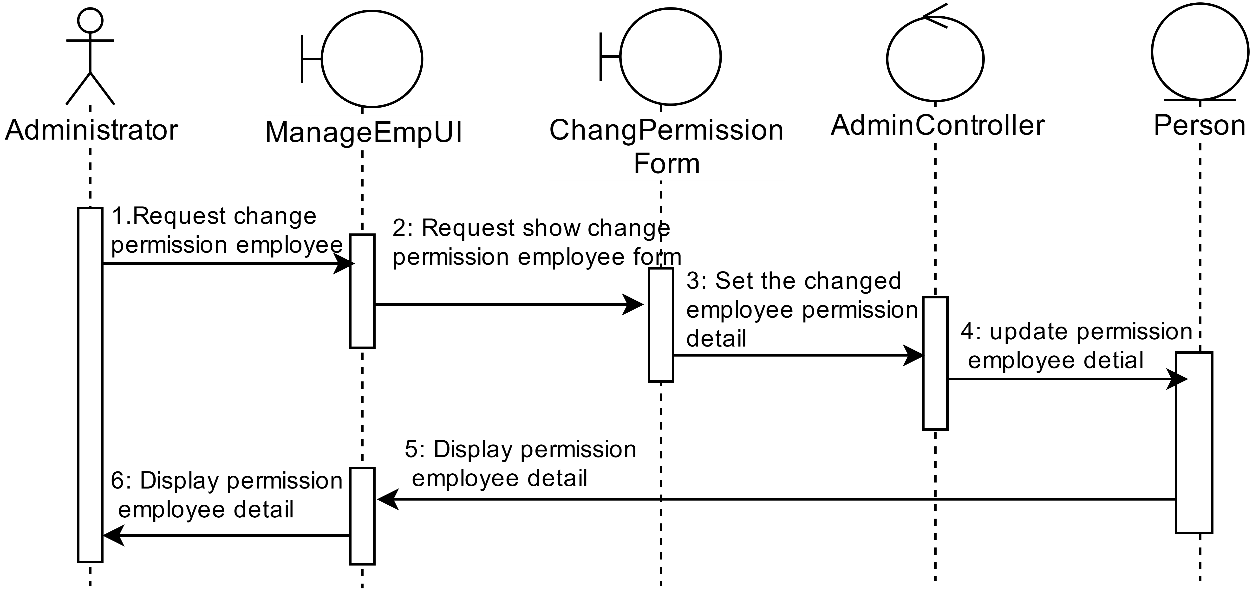
## Sequence Diagram demonstrating operation “Delete employee details”

* This diagram describes the system scenario of “**UC630: Delete employee details”**

****

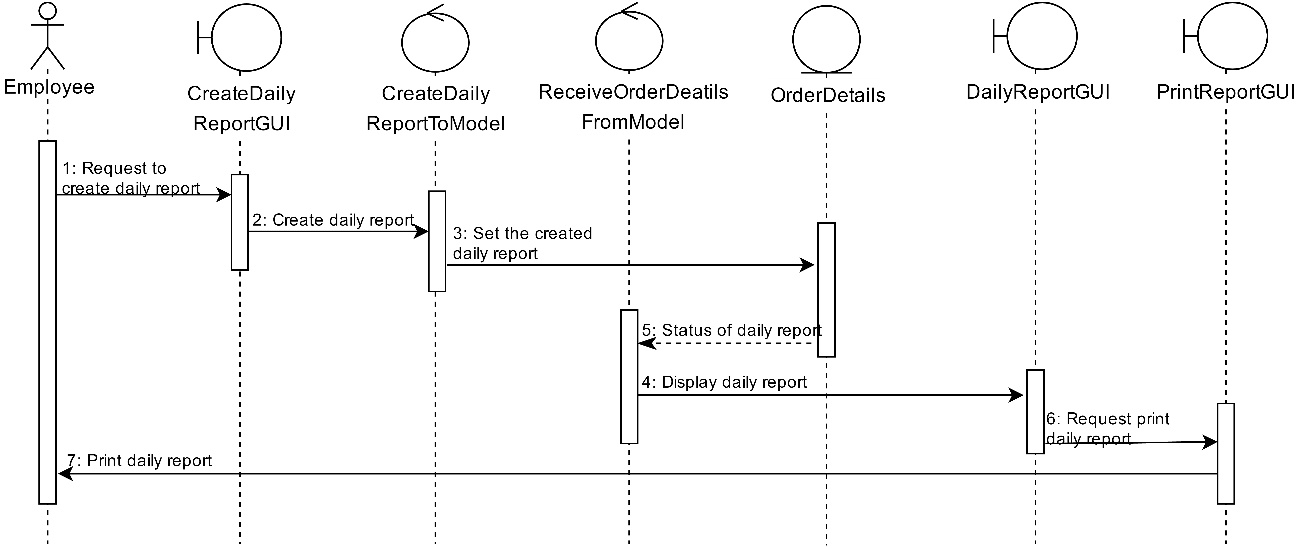
## Sequence Diagram demonstrating operation “Change permission of employees”

* This diagram describes the system scenario of “**UC640: Change permission of employees”**

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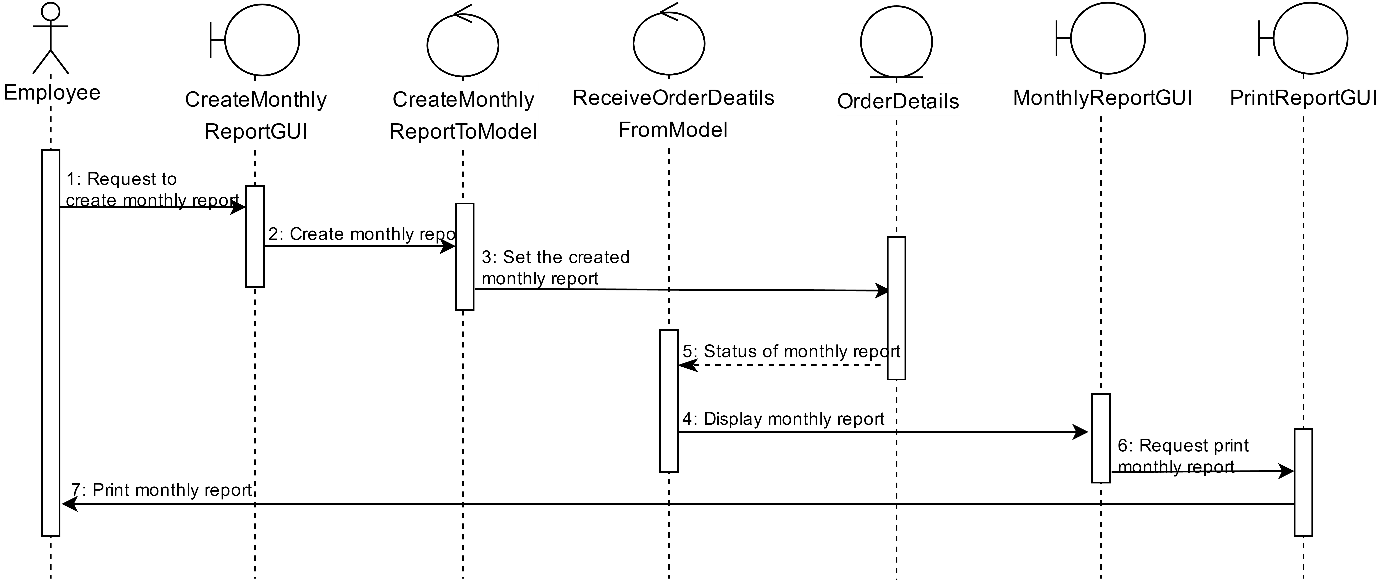
## Sequence Diagram demonstrating operation “Create daily sales report and print daily sale report”

* This diagram describes the system scenario of “**UC710: Edit product list”** and “**UC740: Print product sale report”**

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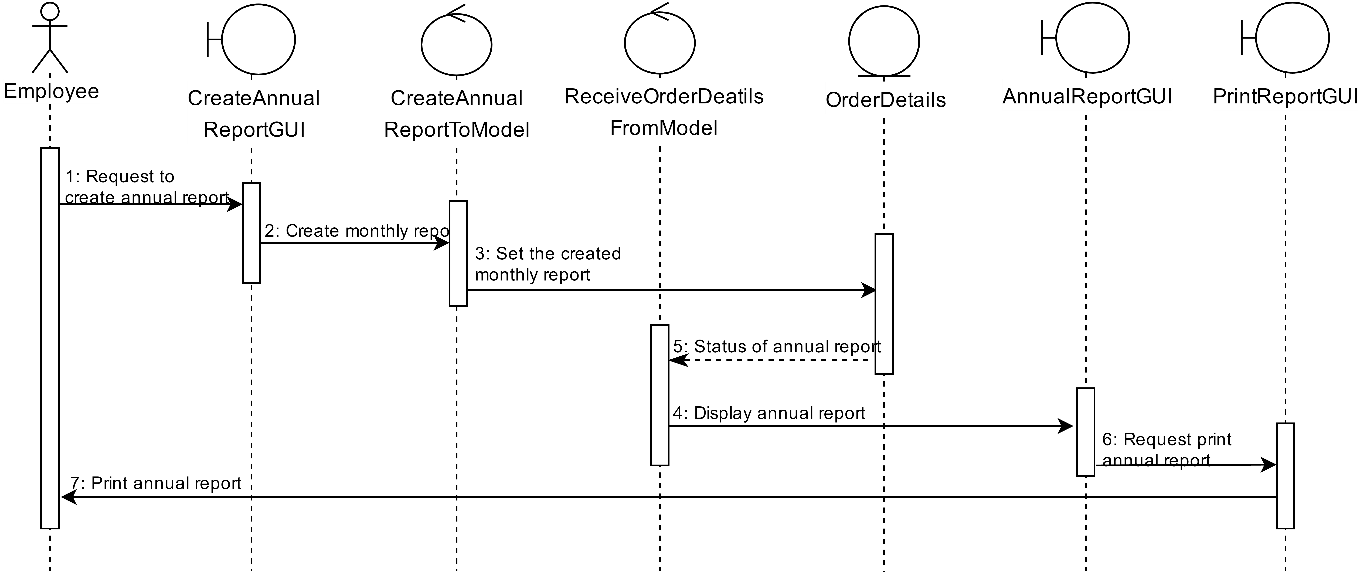
## Sequence Diagram demonstrating operation “Create monthly sales report and Print monthly sale report”

* This diagram describes the system scenario of “**UC720: Edit product list”** and “**UC740: Print product sale report”**

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## Sequence Diagram demonstrating operation “Create annual sales report and Print annual sale report”

* This diagram describes the system scenario of “**UC730: Edit product list”** and “**UC740: Print product sale report”**

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