

HW 4 : INDIVIDUAL TERM PROJECT

INCEPTION AND ANALYSIS & DESIGN OF YOUR SYSTEM

Eunmi Choi

Kookmin University



INDIVIDUAL TERM PROJECT

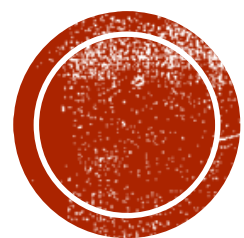
- 개인 별로 관심이 있는 시스템을 선정하시오.
 - 시스템에 대한 설명
 - **Vision** 과 **Scope** 를 정하시오.
- 대상 시스템에 대한 **Inception Phase** 작업하시오.
 - **Requirement** 도출
 - List of Functional and Non-functional requirements (관련된 Quality Attributes도출)
 - **Use Case Model and Use Case Diagrams**
 - 주요 Use Case Description 과 Use Case Diagram 그리시오.
- 대상 시스템에 대한 **Elaboration Phase** 작업하시오
 - **System Sequence Diagrams** 과 해당되는 **System Operations**
 - **Interaction Diagram** 그리시오.
 - You may select either sequence diagram or communication diagram of the primary Use Cases.
 - **Class Diagram** 으로 그리시오.
 - Draw the entire class diagram of the system from the analysis and design phases.



제출 및 제출본

- 제출 : e-campus 에 제출해주세요.
- Document file
 - e-campus 에 숙제 파일을 제출하세요.
- 기한
 - 5월 22일 수요일 11:30pm 까지 입니다.





관련 서식



REQUIREMENTS & SCENARIO 양식 사례

분석 설계 대상 시스템 명:

팀 명:

기능적인 요구 사항 (Functional Requirements)	내용	중요도 (Importance)
FR 1	(예시, 누가 무엇을 한다.)	
FR 2		
FR n		

비기능적인 요구 사항 (Non-Functional Requirements)	내용	품질 속성 (Quality Attributes)과 내용	중요도 (Importance)
NFR 1	(예시, 시스템에서 어떤 일이 어떻게 작동한다.)	(예시, Performance (성능) - 3초만에 결과를 사용자에게 UI 를 통하여 제공한다.)	
NFR 2			
NFR n			

시나리오 (Scenario)	자세한 시나리오 내용
FR 1	
FR 2	
FR ...	
NFR 1	
NFR 2	
NFR ...	



USE CASE

내역

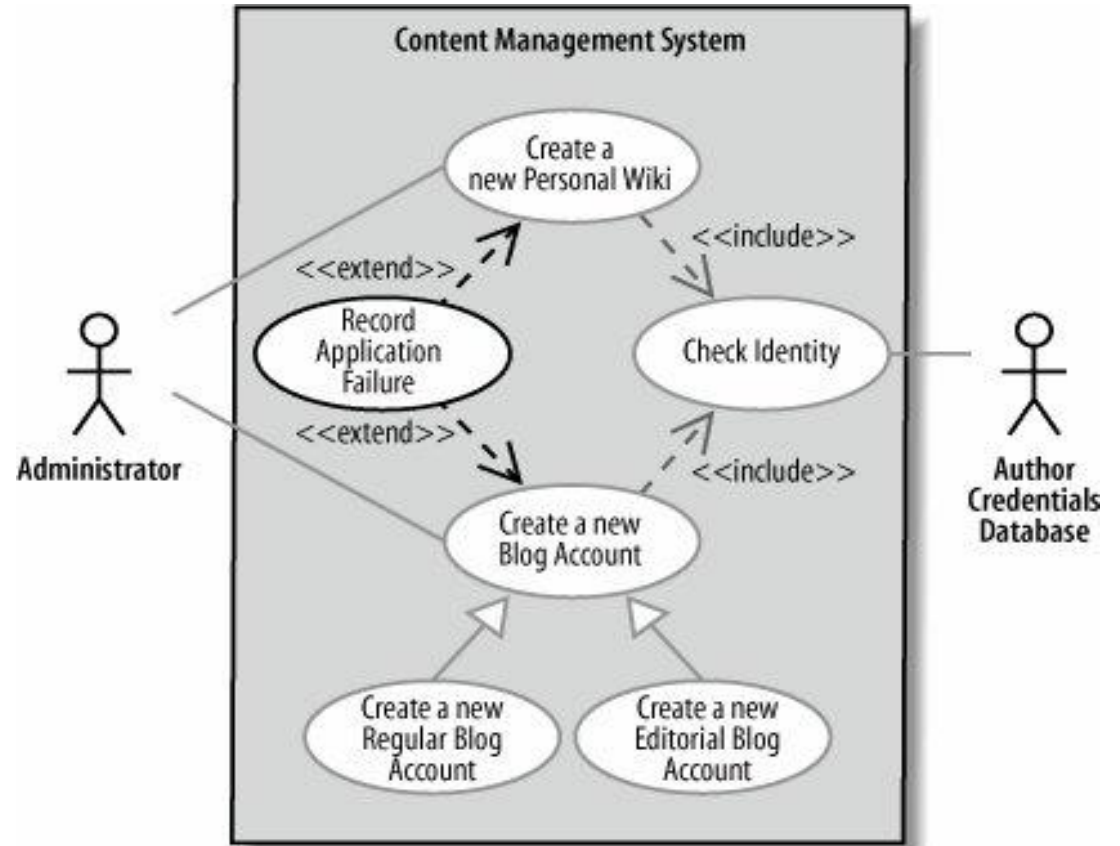
양식 사례

Practice: Use Case Description

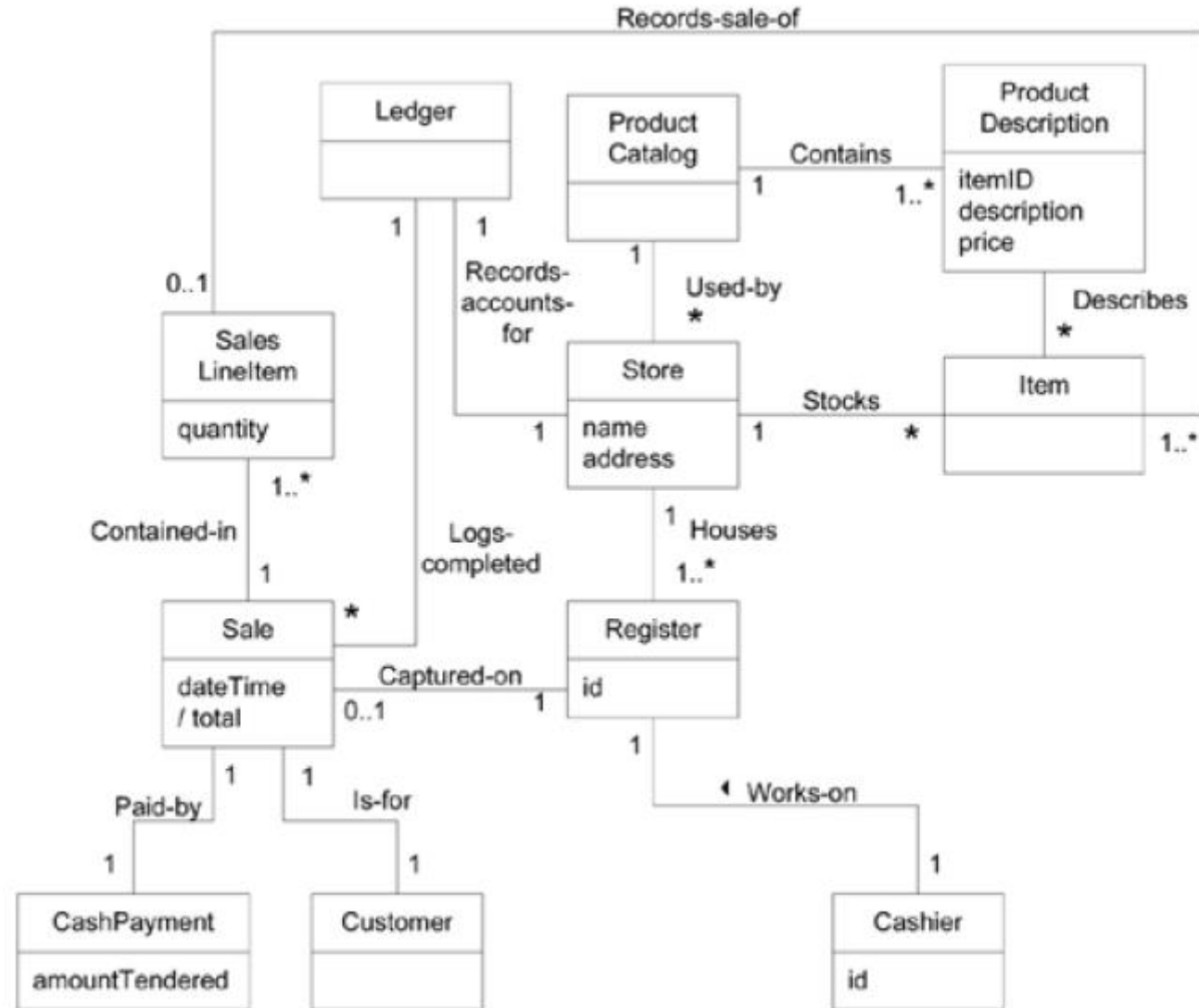
Use case name	Create a New Sale	
Scenario	Creating a new sale for contractors (on credit)	
Triggering event	Contractor wants to purchase items	
Brief description	Contractor bring items to checkout desk. Clerk validates his account and credit limit. Clerk scan items. System looks up price, records items, and compares total to credit limit. The system creates a ticket with all items and reduces the credit limit. A ticket is printed upon request.	
Actors	Clerk	
Related use cases	None: includes or extends	
Stakeholders	Sales clerk, Sale department, Accounting department	
Preconditions	Account must exist, Inventory items must exist	
Post conditions	Sale is created, Sale line items are created and connected to the sale. Account is updated, Inventory is reduced	
Flow of activities	Actor	System
	1. Clerk enters customer name	1.1 System validates account
	2. Clerk scans items	2.1 System creates a Sale 2.2 System looks up item 2.3 System adds item to Sale
	3. Clerk indicates end of the sale	3.1 System calculates total amount 3.2 System reduces credit limit
	4. If contractor wants receipt, clerk requests receipt	4.1 System prints receipt
Exception conditions	1.1 If account is out of balance, initiate "Create a New Cash Sale" use cases 2.2 If item is not found, clerk call manager and manually enter item information 3.1 If amount is greater than credit limit, initiate "Create a New Cash Sale" use case	

USE CASE DIAGRAM 그리기

- UML Tool 이나 drawing tool 을 사용하여 앞에서 도출하고 정의한 내용에 대하여 Use Case Diagram 그리시오.



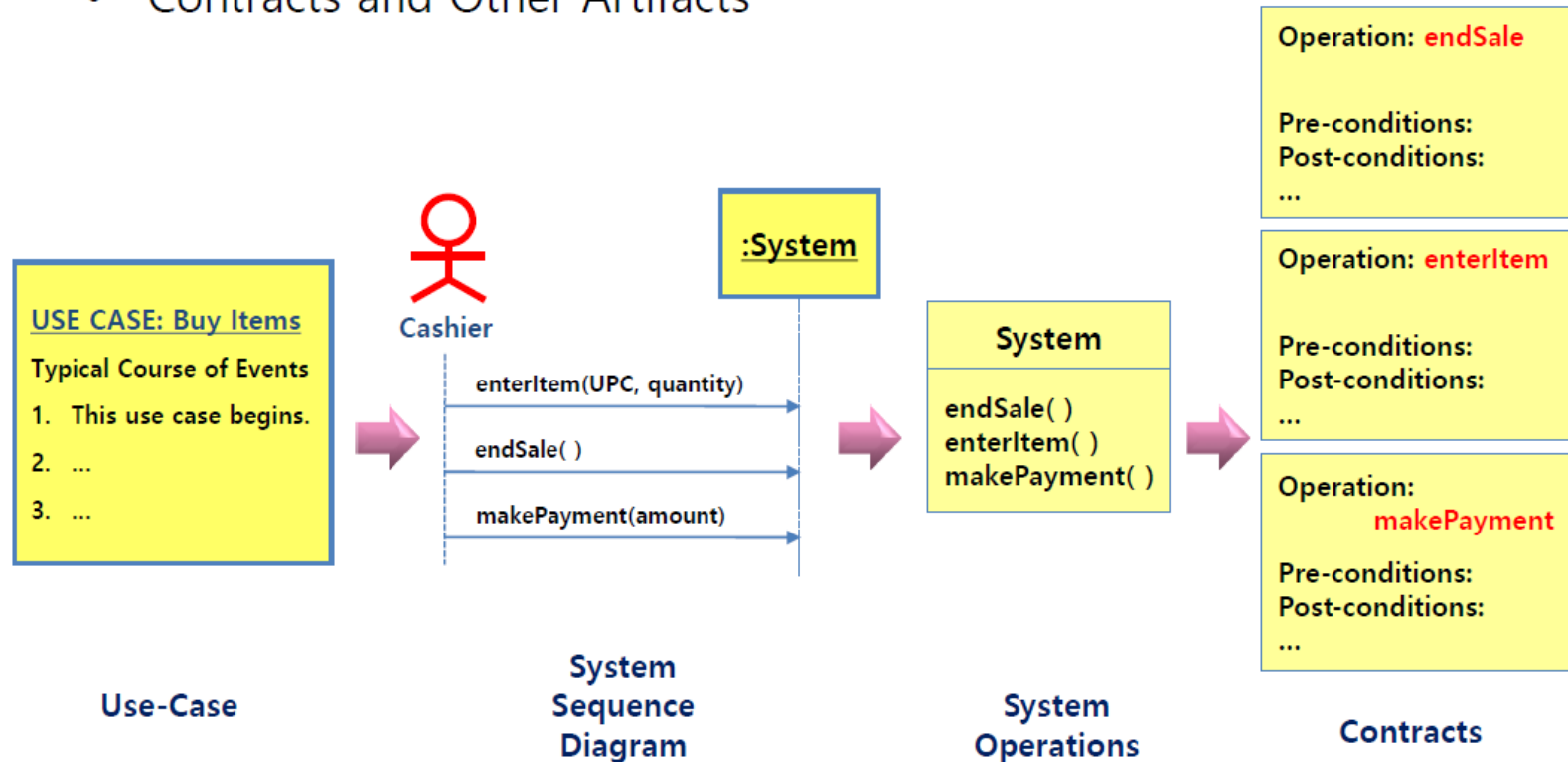
ELABORATION : DOMAIN MODEL



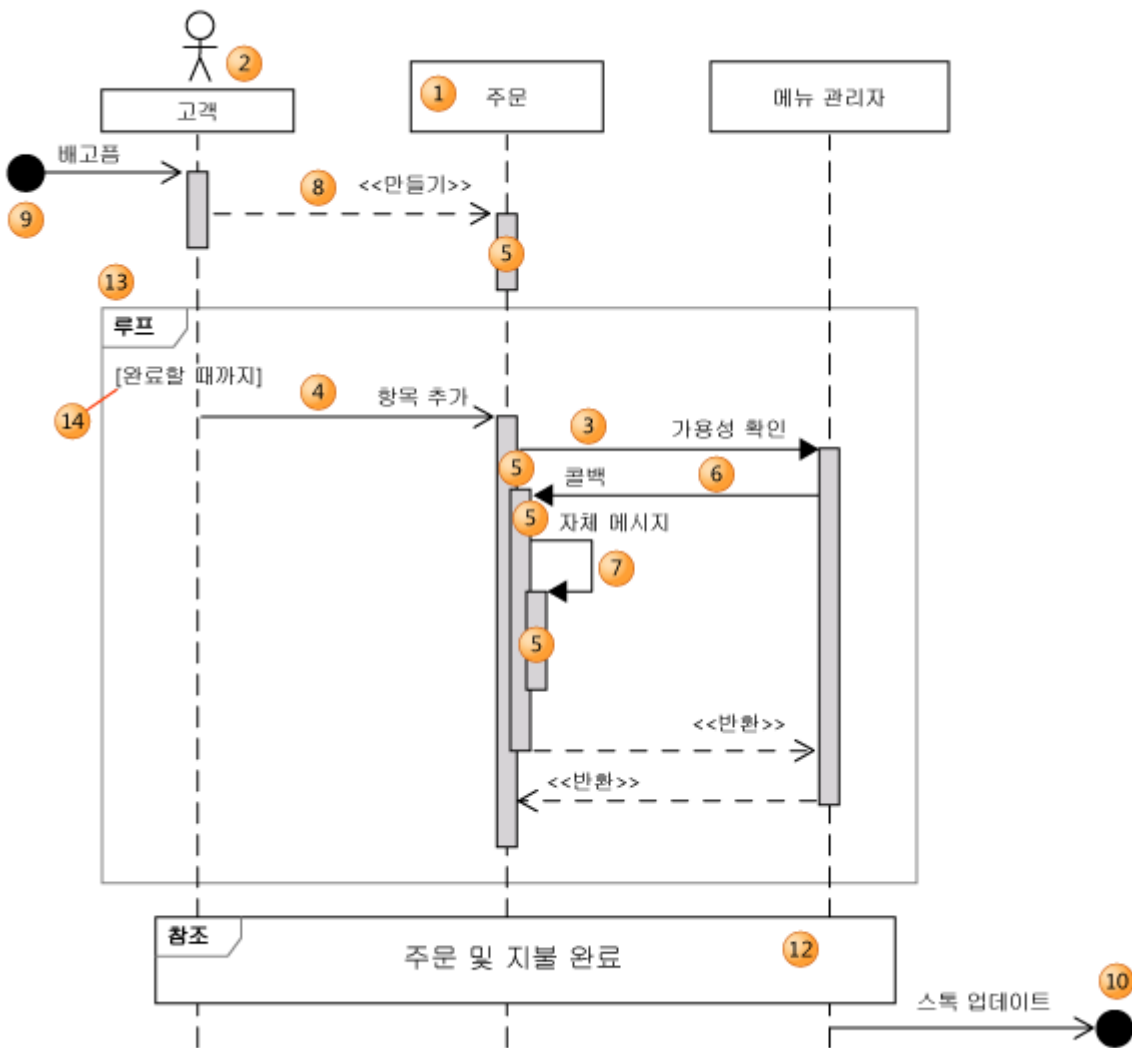
Contracts and other Artifacts

- The use cases suggests the system sequences diagrams.
- The system operations can then be identified.
- The effect of the system operations is described in contracts.

- Contracts and Other Artifacts



INTERACTION DIAGRAM 예



CLASS DIAGRAM 예

