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**UNIVERSITY OF PETROLEUM & ENERGY STUDIES**

**School of Computer Science**

**Object Oriented Analysis & Design**  
**Assignment 2**  
**Kirana Store(offline)**

**Submitted By:**

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AIML B3

**Submitted To:**

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Asst. Professor

SOCS

UPES

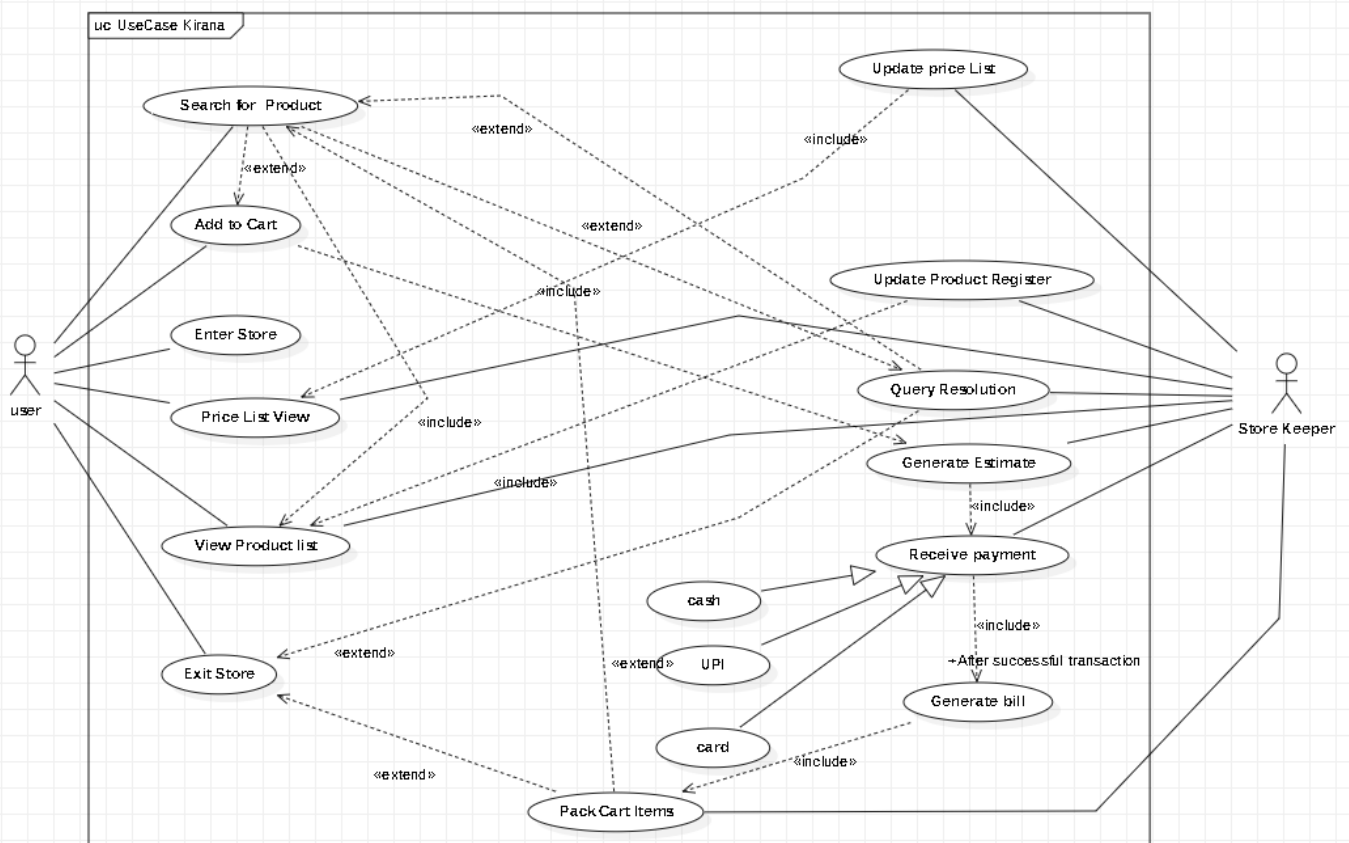
## Assignment Content

For the selected domain (submitted to CRs), design the mentioned diagrams using any UML tool (wherever applicable) and submit the solution in a word/pdf file along with the raw file.

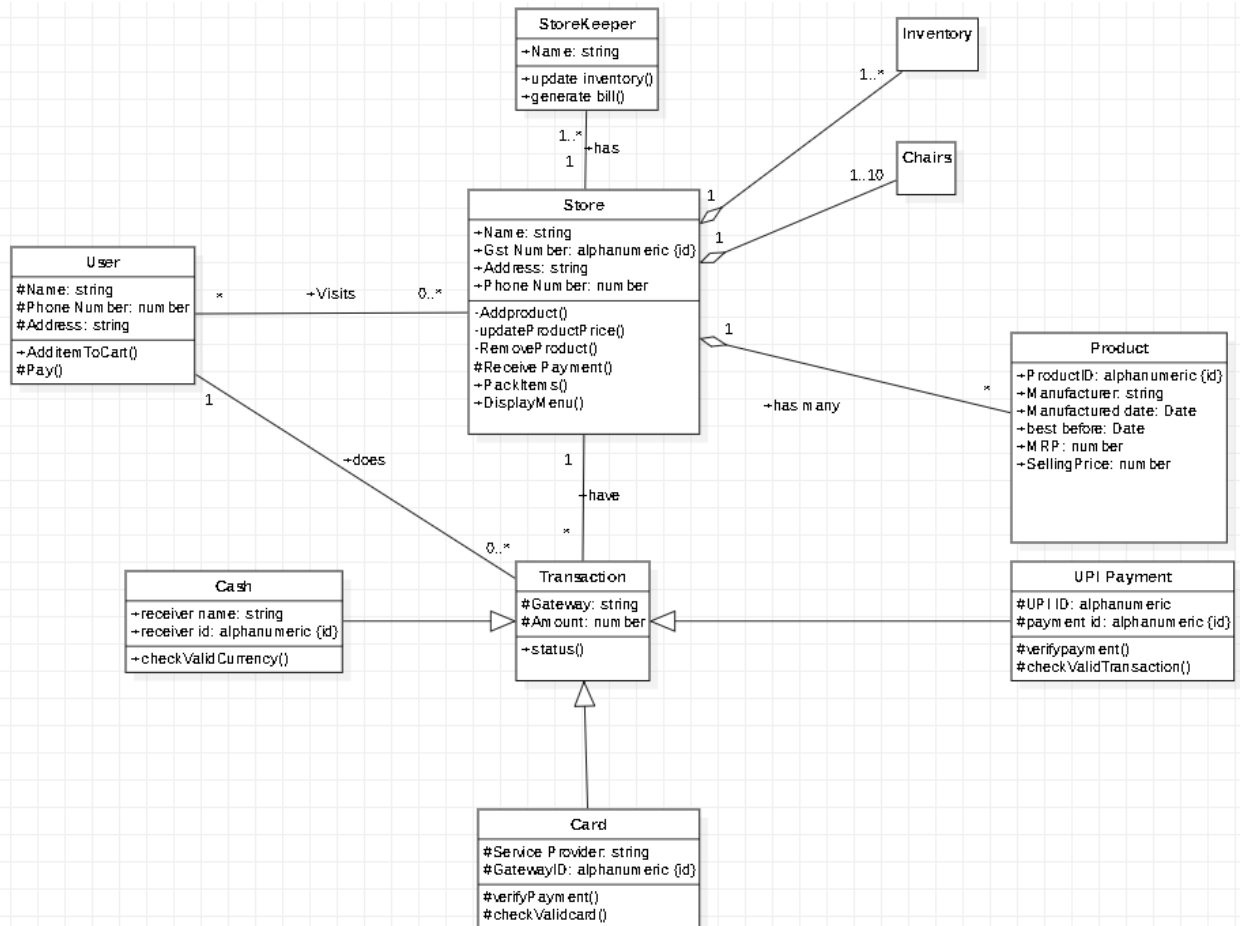
- a) Use case Diagram
- b) Class Diagram
- c) Object Diagram\* (UML Tool optional)
- d) CRC Cards\* (UML Tool optional)
- e) Activity Diagram
- f) Swim lane Diagram
- g) Sequence Diagram
- h) Collaboration Diagram
- i) StateChart Diagram
- j) Component and Deployment Diagram

Note\*: For CRC and object diagrams you may draw the diagram on paper and add a snapshot of it in the word file.

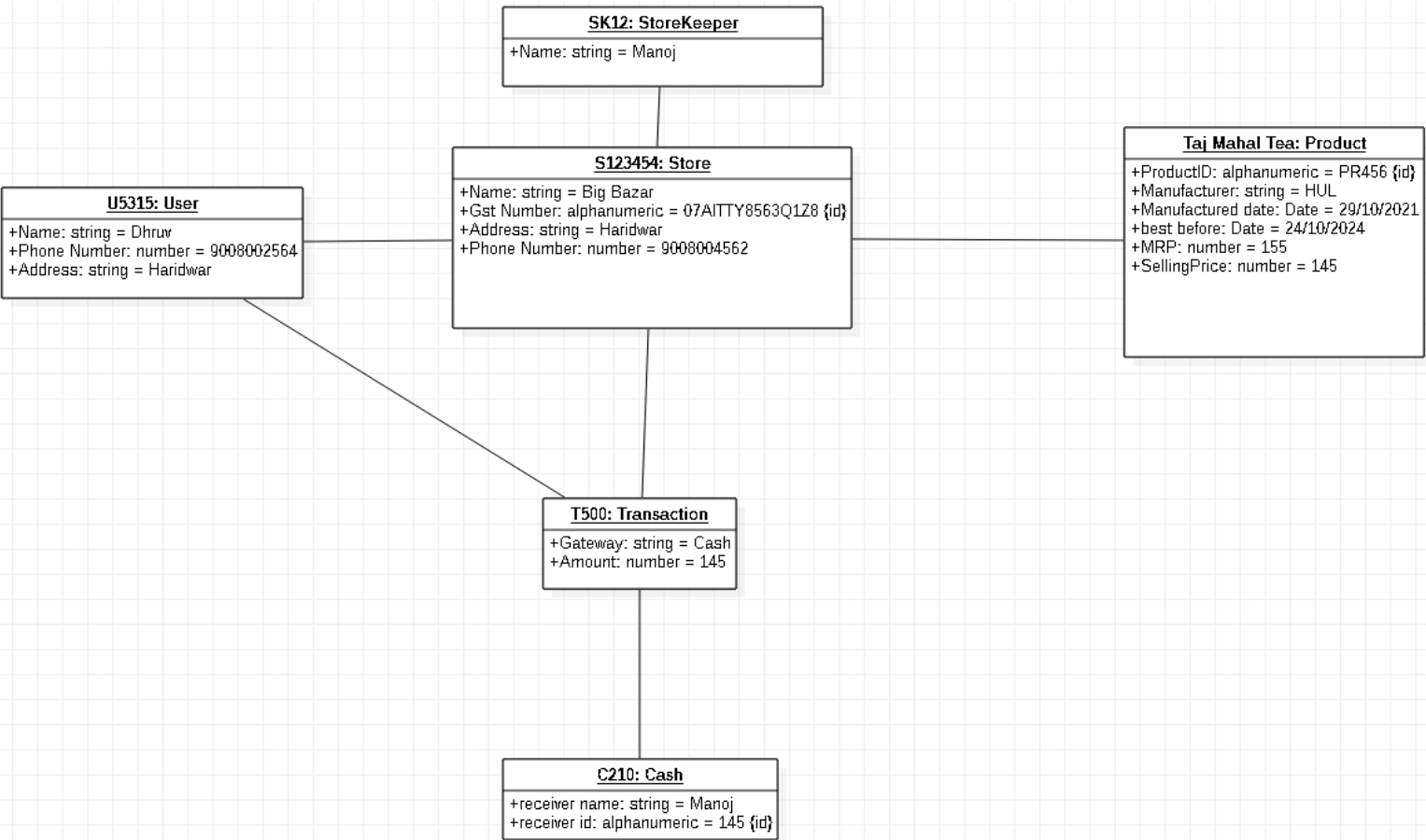
## 1: USE CASE:



## 2: Class Diagram:



3: Object Diagram:



4: CRC Cards:

Class: User	
Add item To Cart Pay	Store Transaction Product Storekeeper

Class: Store	
Add products update Product Price Remove Product Receive Payment Pack Items Display Menu	User Storekeeper Product Transaction

Class: Product	

Class: Storekeeper	
Update Inventory generate bill	Store Product User Transaction

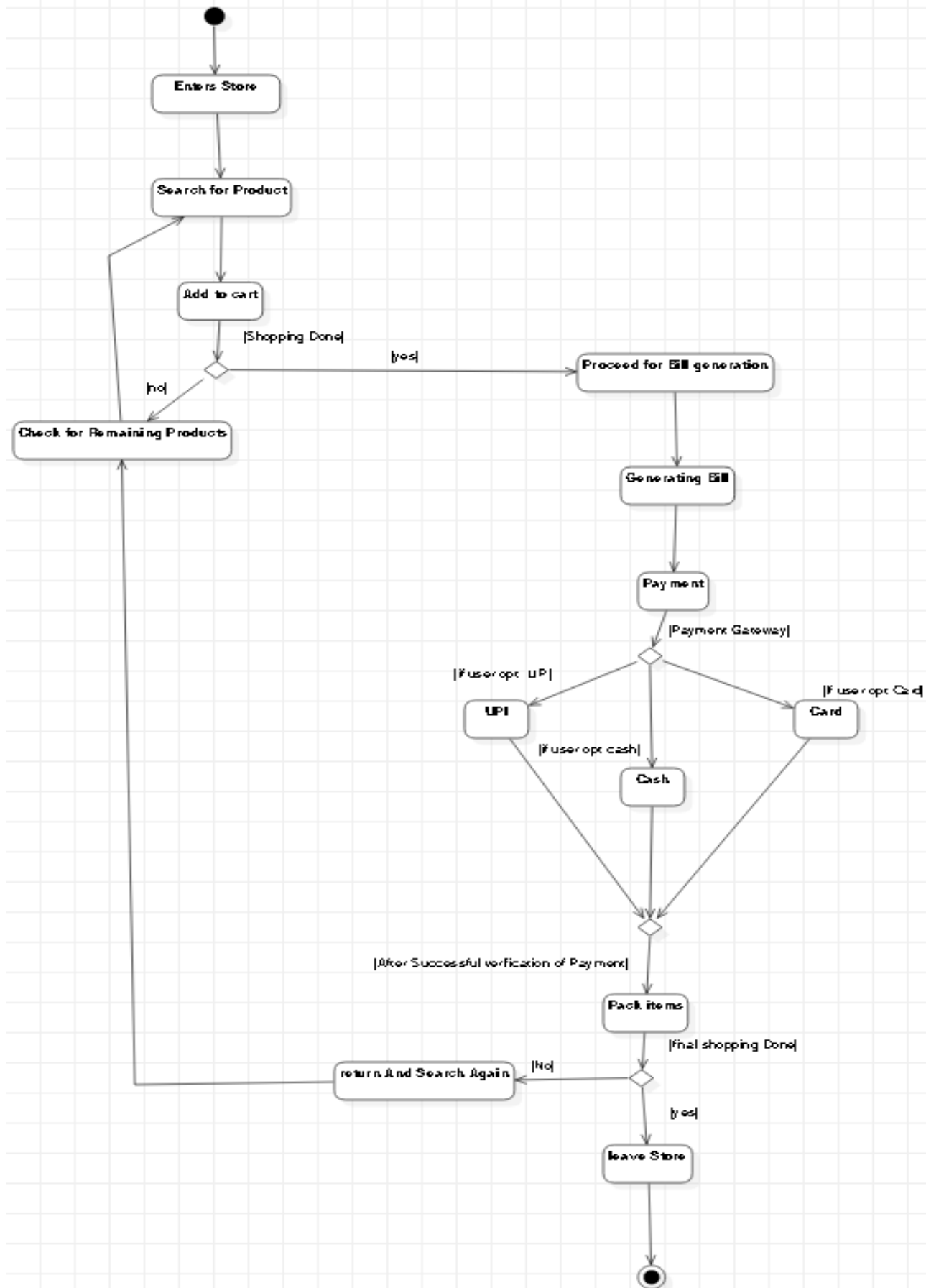
Class: Transaction	
Status	Store User

Class: Cash	
check Valid Currency	Storekeeper Transaction User

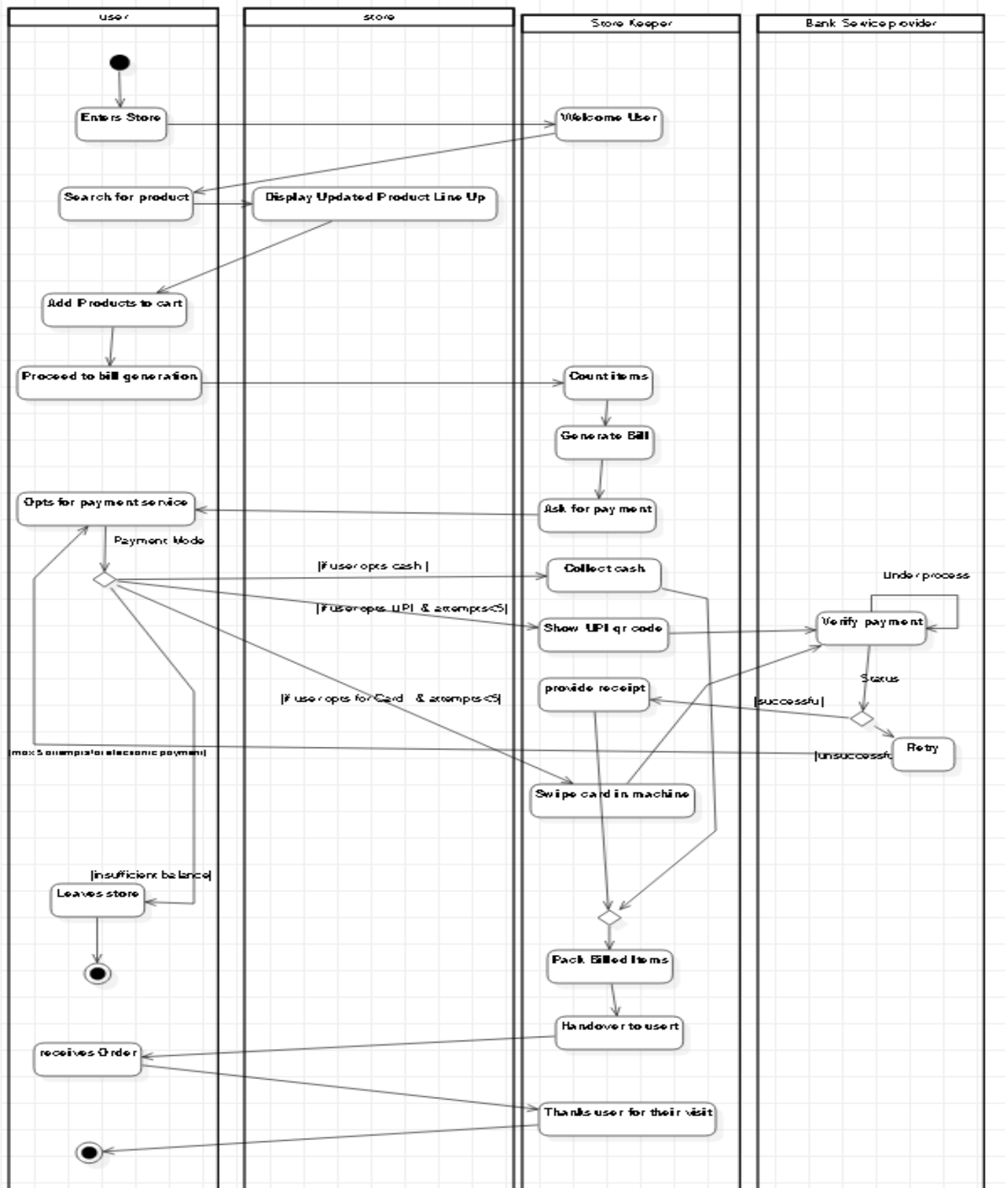
Class: UPI Payment	
Verify Payment check Valid Transaction	Storekeeper User Transaction

Class: Card	
Verify Payment check Valid Card	Storekeeper User Transaction

5:Activity Diagram:

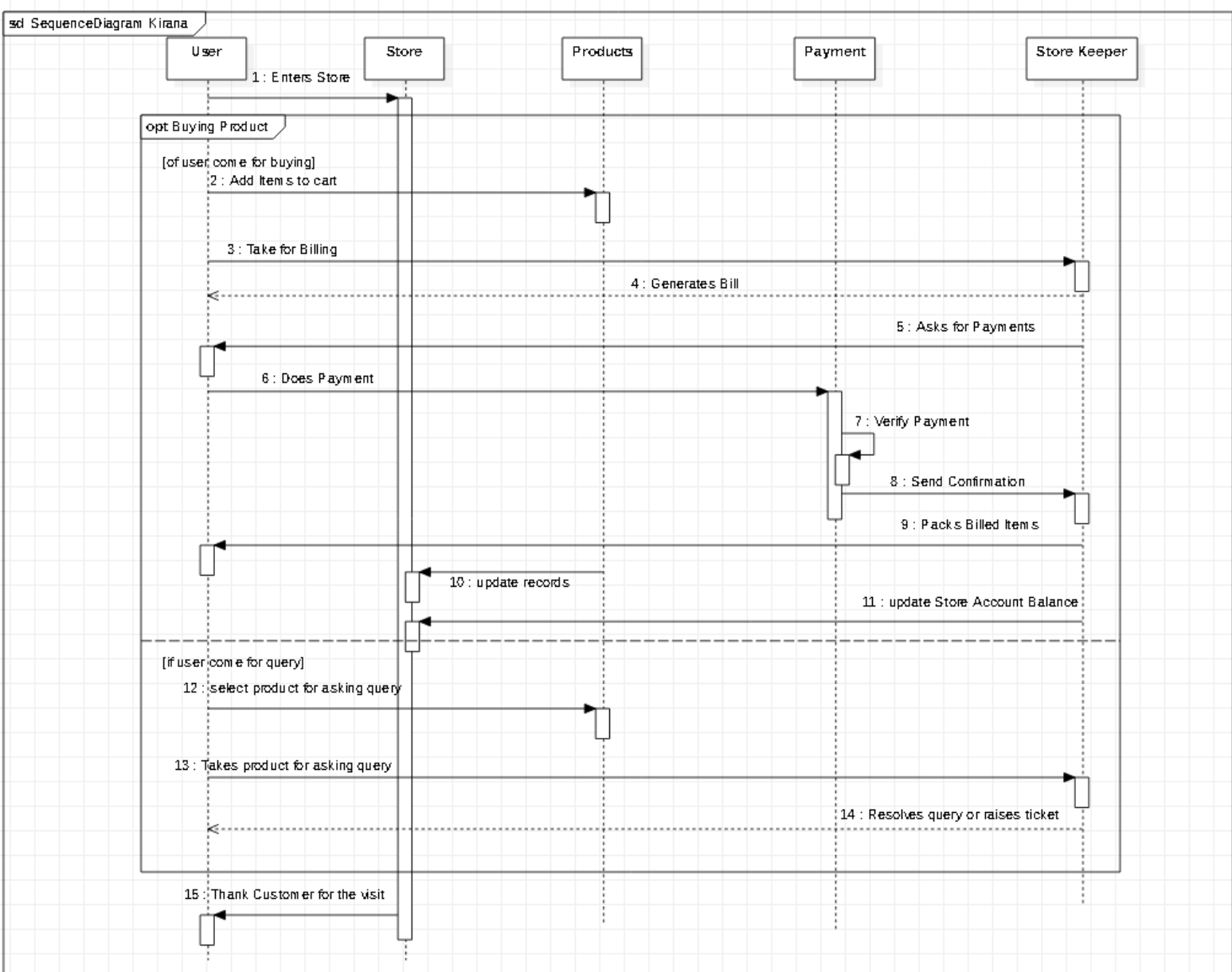


## 6: Swimlane Diagram:

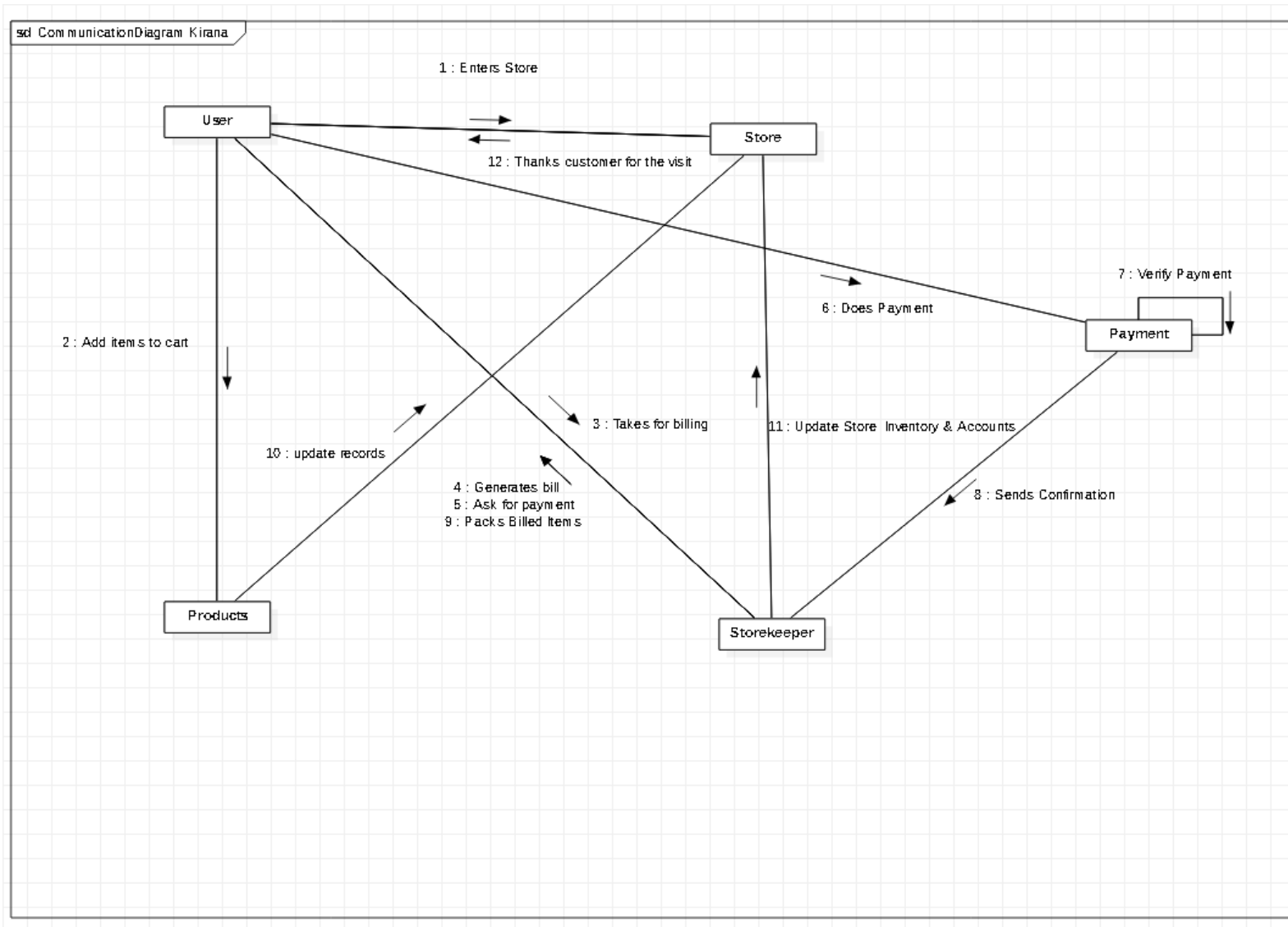




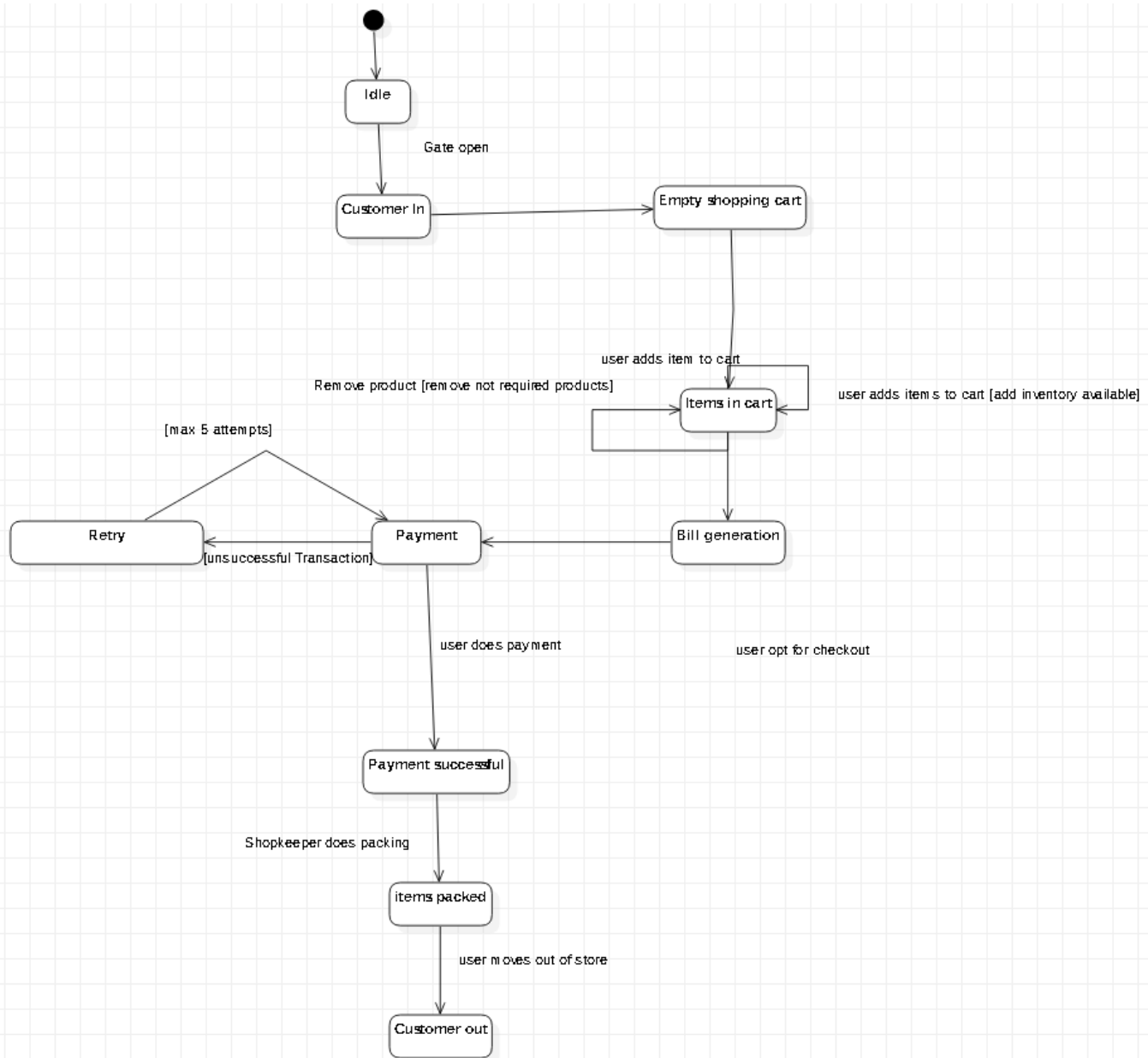
## 7: Sequence Diagram:



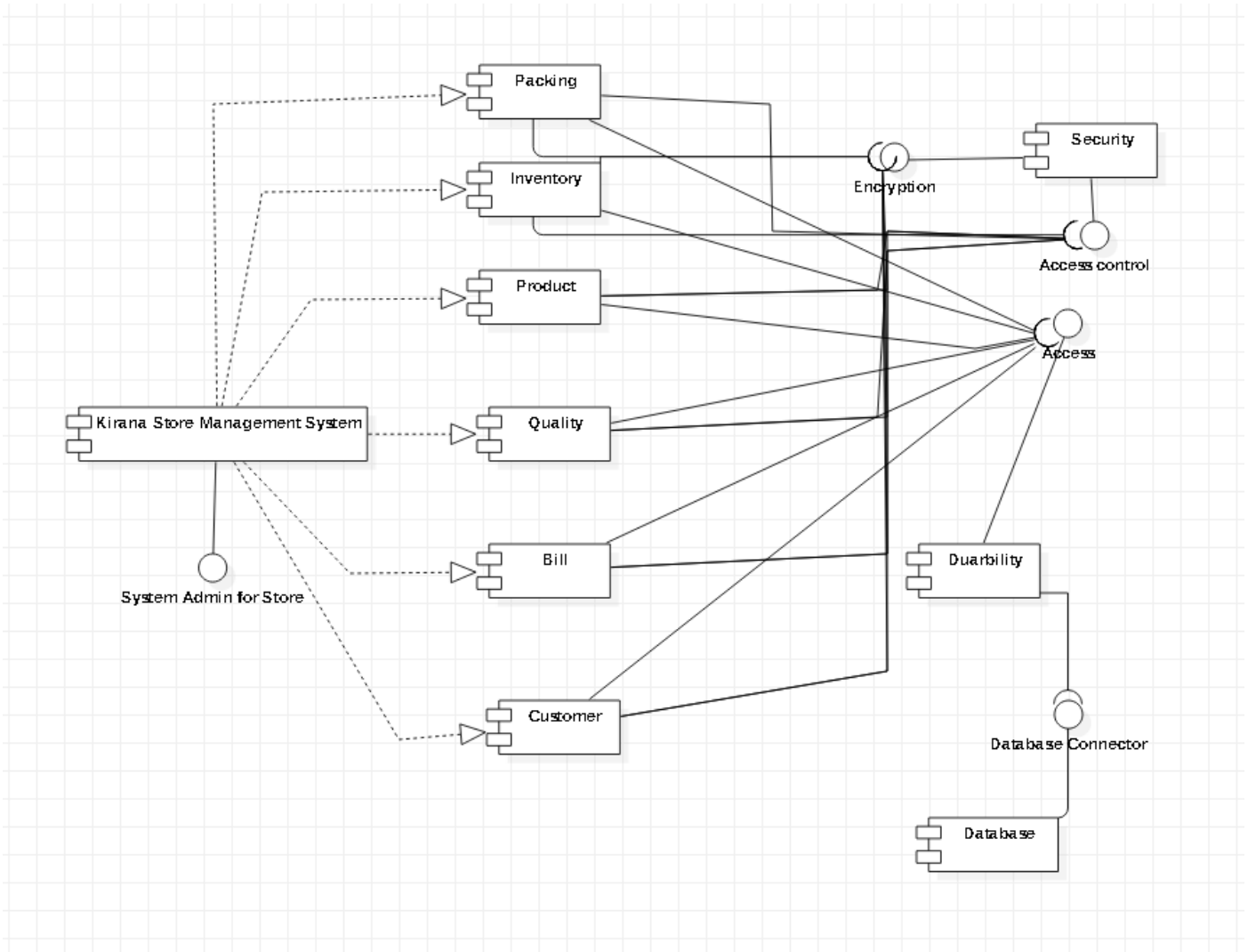
8: Collaboration Diagram:



9: State Chart Diagram:



10: a: Collaboration Diagram:



B: Deployment Diagram:

