Table 15.6   Use Case KBO_UC_01: Record Transaction
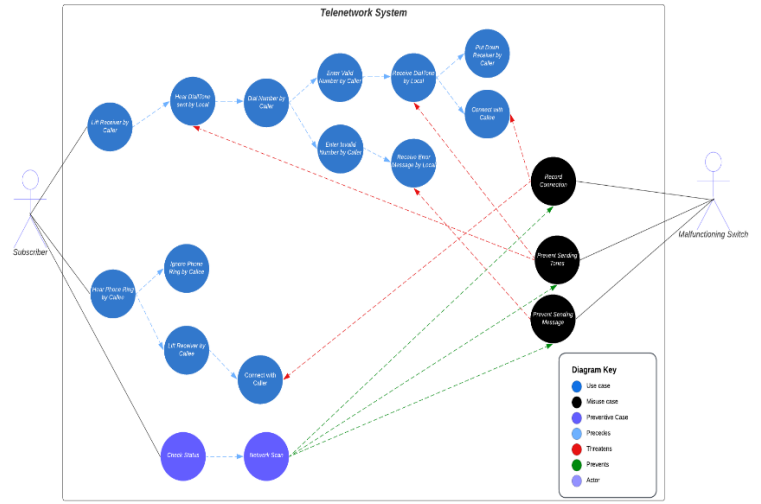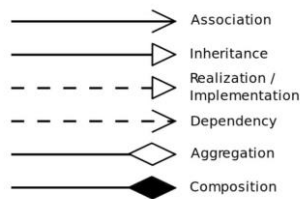
ID	KBO_UC_01
Name	Record Transaction
Objective	To record transaction information for a particular account in KBO.
Pre-conditions	Administrator must be logged into KBO and must be able to access transaction information from Master Ledger.

Post-conditions	• Success
	  1. Transaction information is successfully recorded in KBO.
	• Failure
	  1. Transaction has failed.
	  2. Transaction has succeeded but transaction information cannot be recorded in KBO.

Actors	• Primary
	  1. Administrator
	• Secondary
	  1. Master Ledger
	  2. User Notifier

Trigger	Periodic reminder to Administrator
Normal flow	1. Administrator requests transaction information for a particular account for a particular period of time from Master Ledger via the Get Transaction Information use case. 2. Administrator accepts information supplied by Master Ledger. 3. Administrator checks status of each particular transaction, whether success or failure via the Check Transaction Status use case. Administrator sends failed transaction information to failed transactions queue. System processes failed transaction information via the Notify User use case. 4. Administrator records succeeded transactions in the system. System confirms successful recording of transaction.
Alternative flow	1. a Master Ledger is not able to supply transaction information; use case concludes with error notification. 3. a. No successful transactions to record; use case concludes with error notification. 4. a. Successful transactions can not be recorded in KBO; use case concludes with error notification.
Interacts with	Get Transaction Information, Check Transaction Status, Record Transaction, Login, Notify User use cases.
Open issues	1. How quickly must Master Ledger respond to request for transaction information? 2. How will the system identify Administrator from other users?

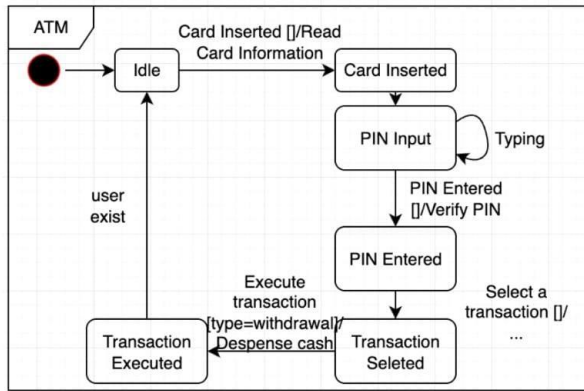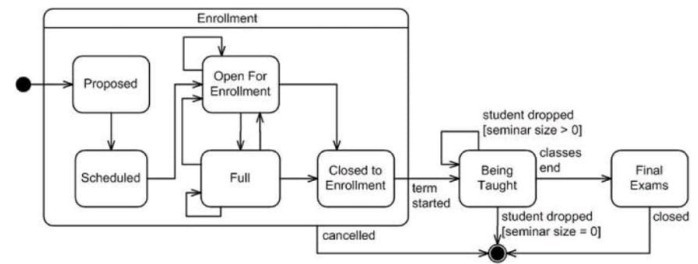Just use solid one-sided arrows for all

Relationships

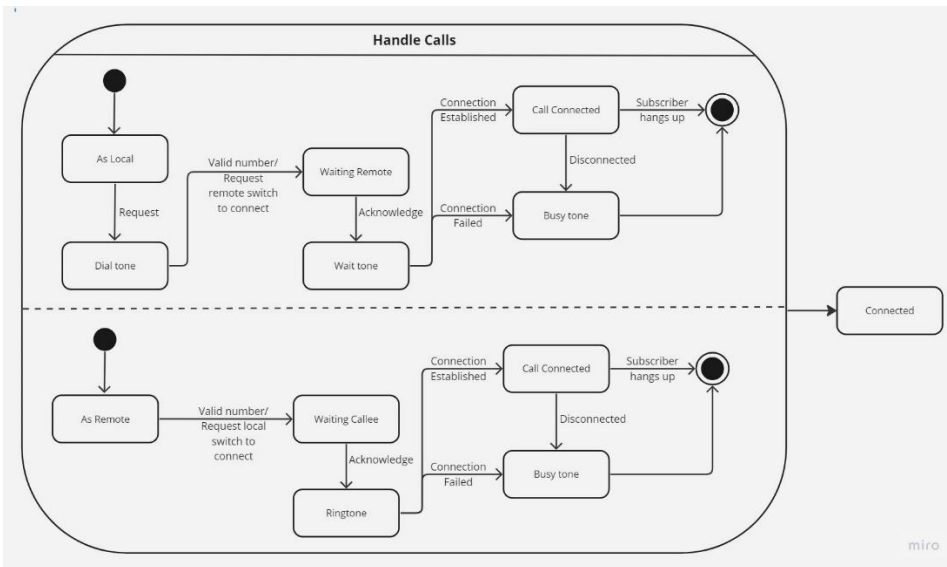|	
→	Association
▷	Inheritance
⇢	Realization / Implementation
⇢	Dependency
◇—	Aggregation
◆—	Composition
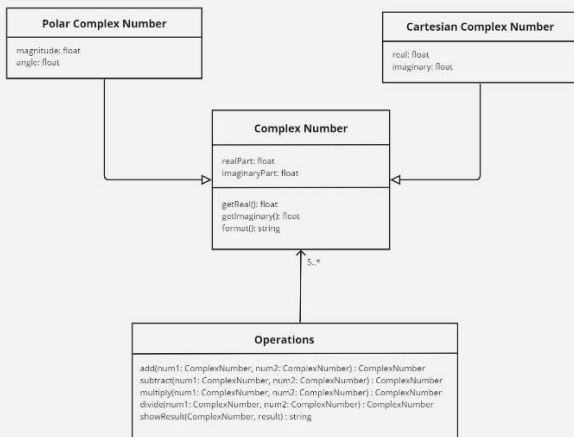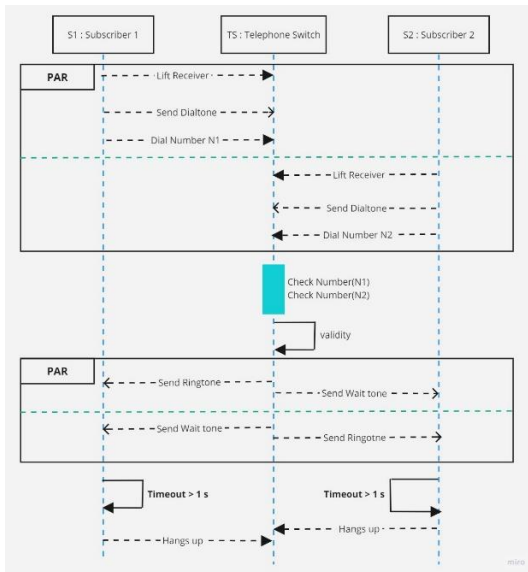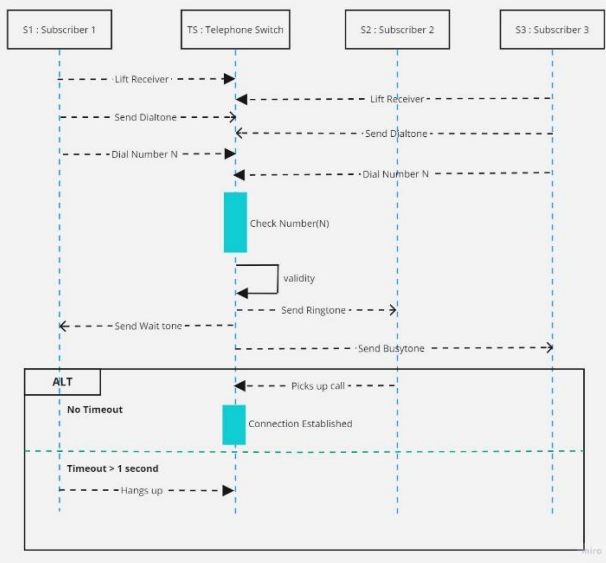
Multiplicity

Indicator	Meaning
0..1	Zero or one
1	One only
0..*	Zero or more
*	Zero or more
1..*	One or more
3	Three only
0..5	Zero to Five
5..15	Five to Fifteen

Compound States

A state machine diagram may include sub-machine diagrams

CONCURRENT STATES – STATE TRANSITION DIAGRAM