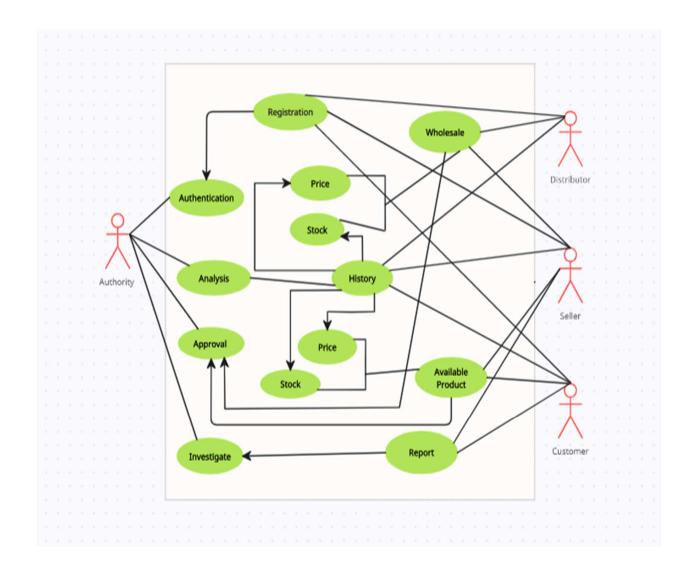
### 1. <u>Use Case Diagram:</u>



### 2. Class Diagram:

Seller
sID : string
setPrice()
setStock()
getPrice()
getStock()
getHistory()
Report(sID,product_info,comment)

# Authority aID: string Registered(User, Reg\_Id) getAnalysis(Analysis) checkApproval(Approval) checkInvestigation(Investigation) checkReport(Report) checkAuthetication(Authentication)

currentMarket(Analysis)

User
name: string
phone: string
address: string
nID: string
userType: string
setName()
getName()
setPhone()
getPhone ()
setAddress()
getAddress ()
setNID()
getNID()
setUsertype()
getUsertype()

Registration

Registered(User, Reg\_Id)

Reg\_ld: string

## Distributor dID: string setwholeSalePrice() setdistributorstock() getwholeSalePrice() getdistributorstock() getHistory()

### Authentication authorize(Registration) - approvalStatus:

- Invalid(Registration)

boolean

approvalStatus: boolean Investigate(Report) Invalid(Report)

Investigation

### Analysis

getwholeSalePrice() getdistributorstock() getHistory() getPrice() getStock() Marketstate()

### WholeSaleProduct wholeSalePrice: double distributorStock: int

Product price: double stock: int

### Report

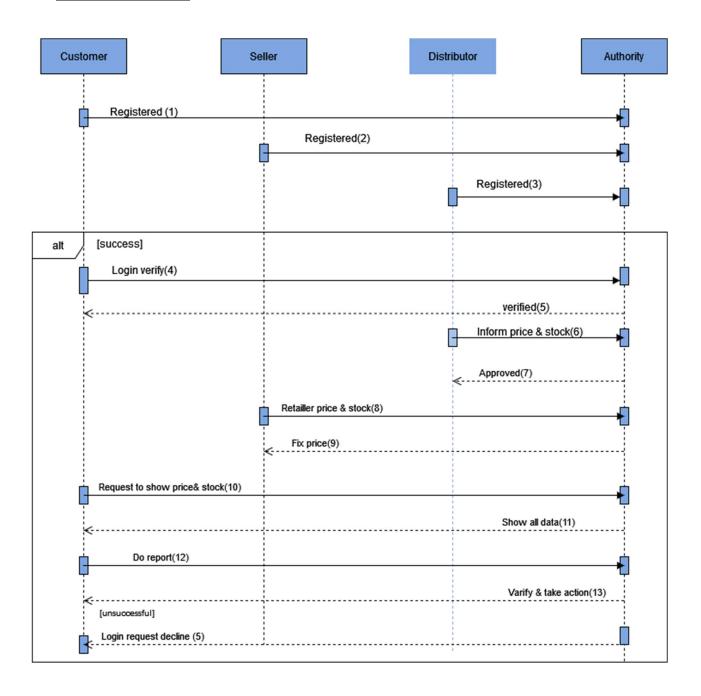
Rcomment:string RsID: string RsProduct: string RdID: string RdProduct: string

Report(RsID,RsProduct,Rcomment) Report(RdID,RdProduct,Rcomment)

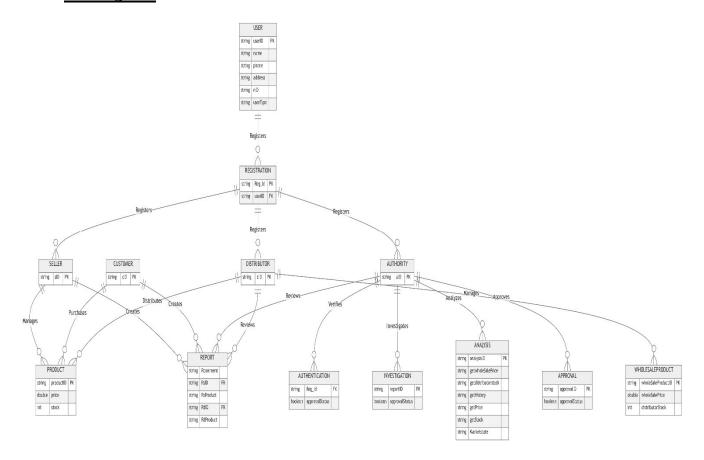
## customer cID: string getPrice() getStock() getHistory() Report(sID,product\_info,comment)

### Approval approvalStatus: boolean Approve(Product) Approve(WholeSaleProduct) Invalid(Product) Invalid(WholeSaleProduct)

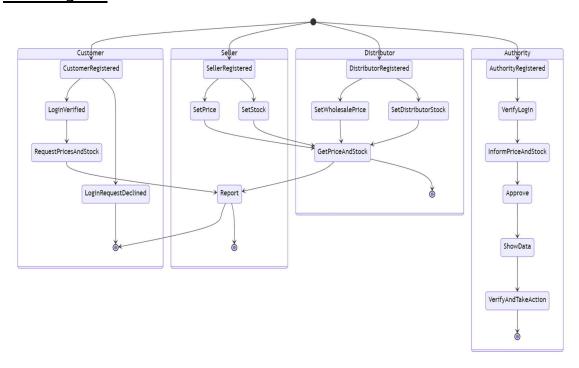
### 3. Sequence Diagram:



### 4. ER Diagram:



### 5. State Diagram:



### 6. Activity Diagram:

