

# **UML Diagrams**

**Title :- CerealSphere**

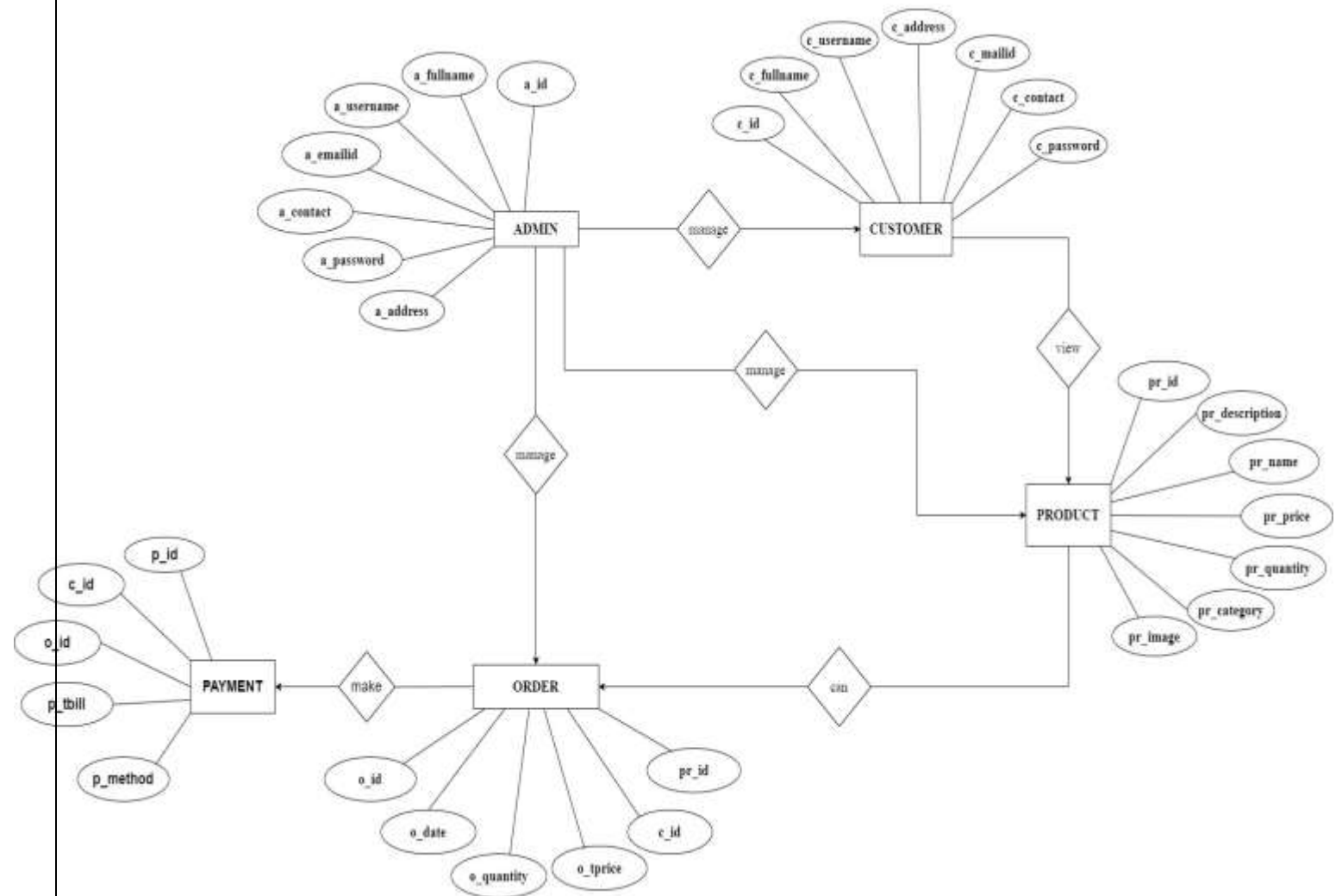
Name :- Pooja Kothawade

MCA-II      Div :- C

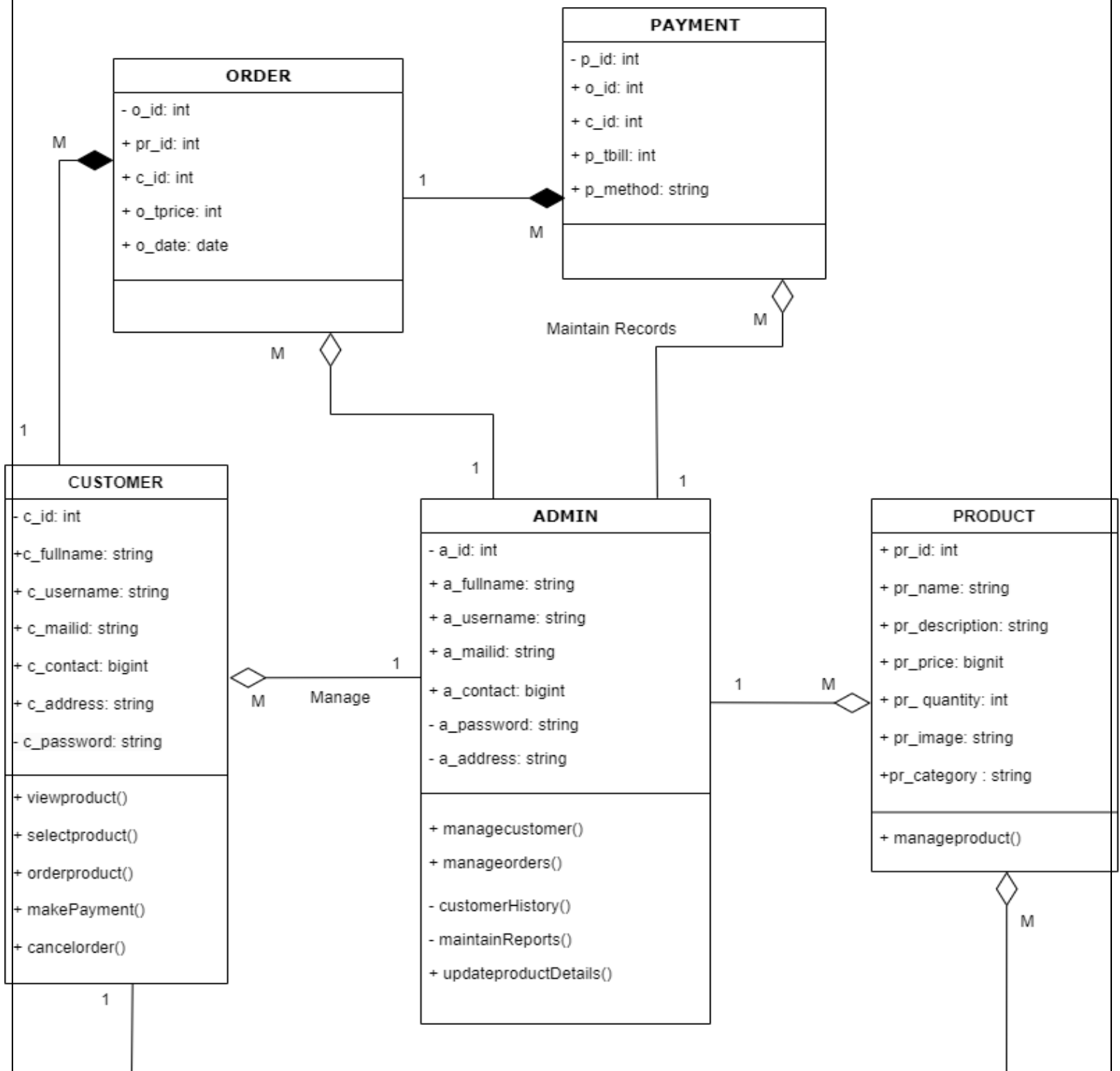
Roll no. :- 22332

## CHAPTER 3: ANALYSIS AND DESIGN

### 3.1 Entity Relationship Diagram (ERD):

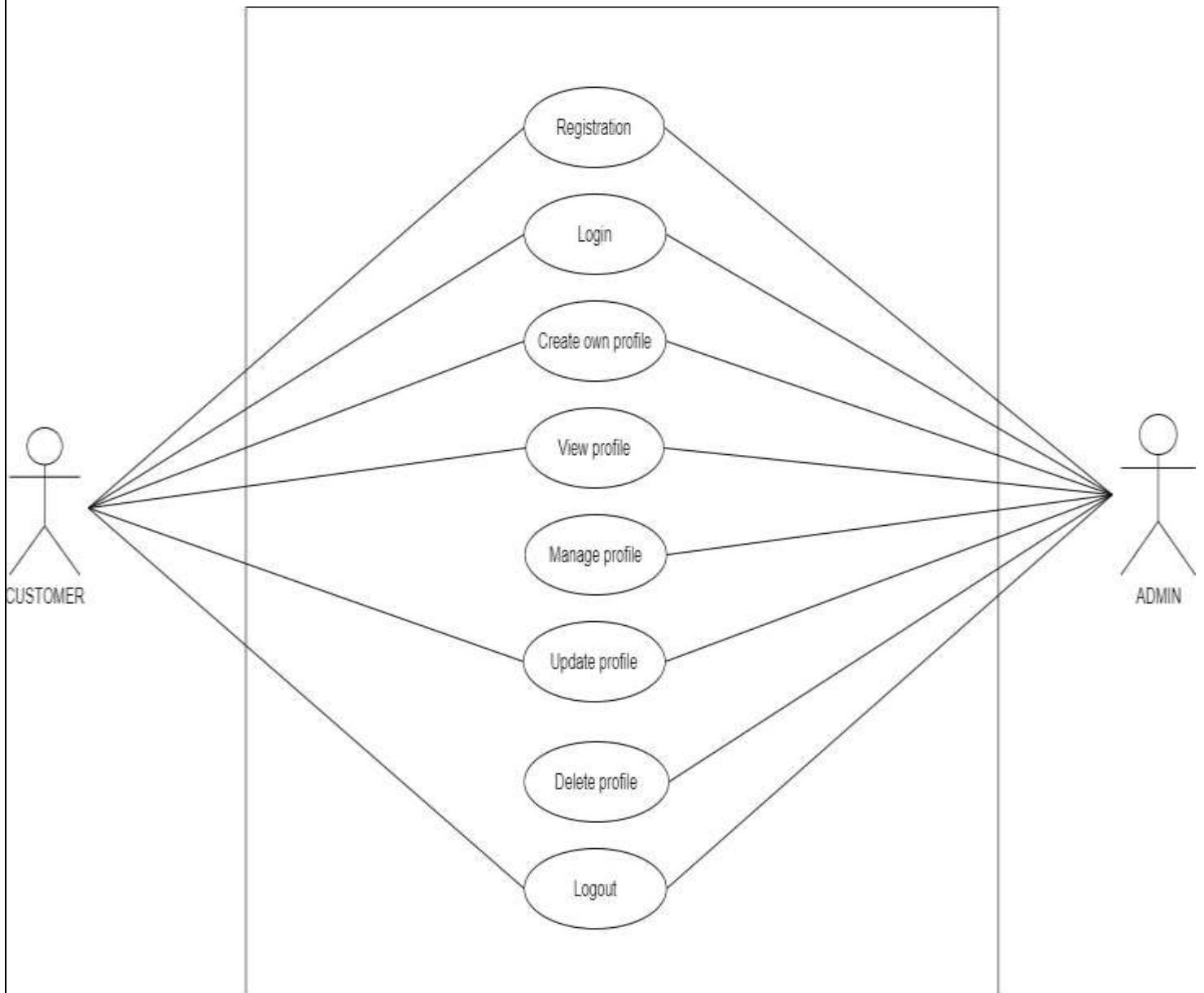


### 3.2 Class Diagram:

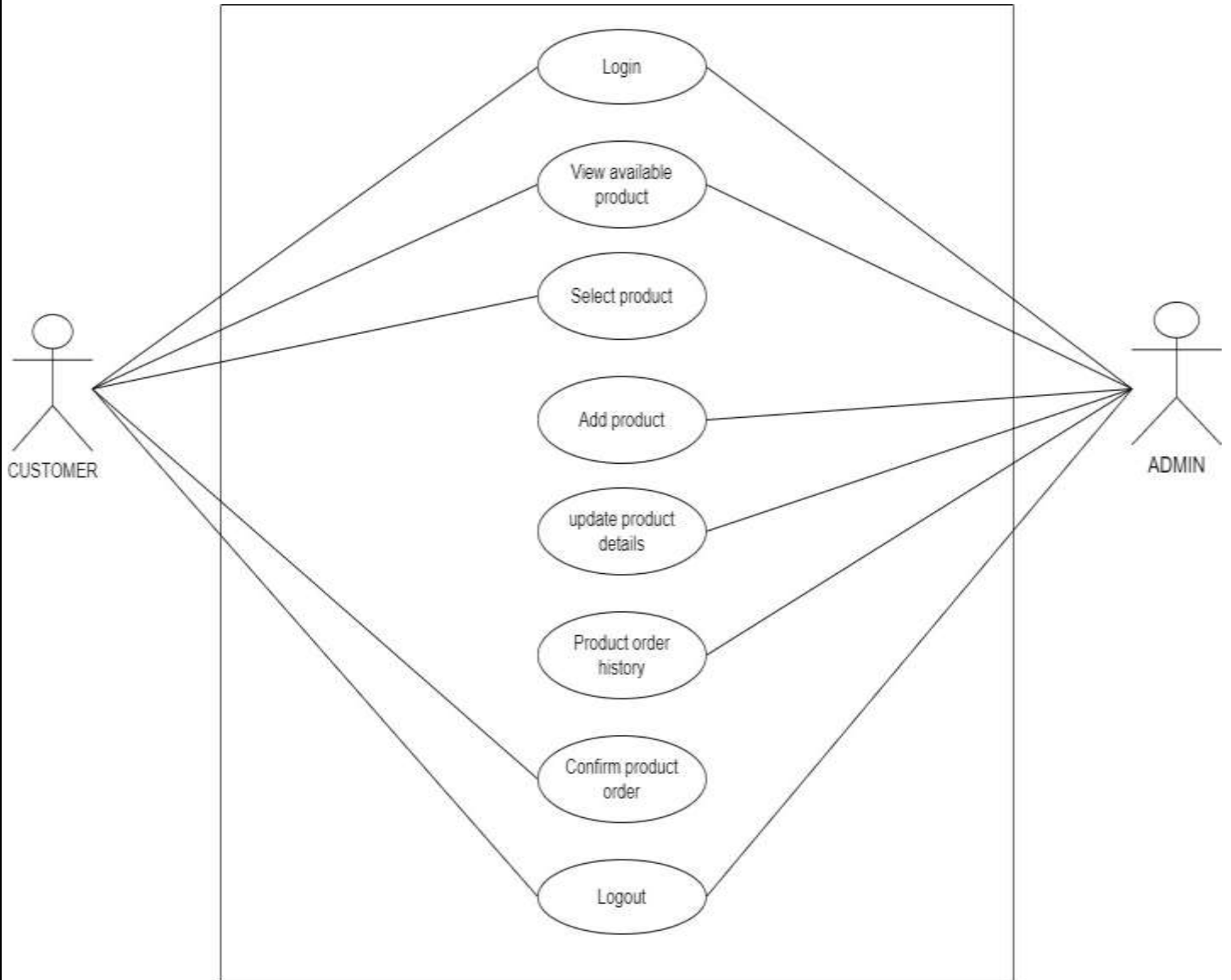


### 3.3 Use Case Diagrams:

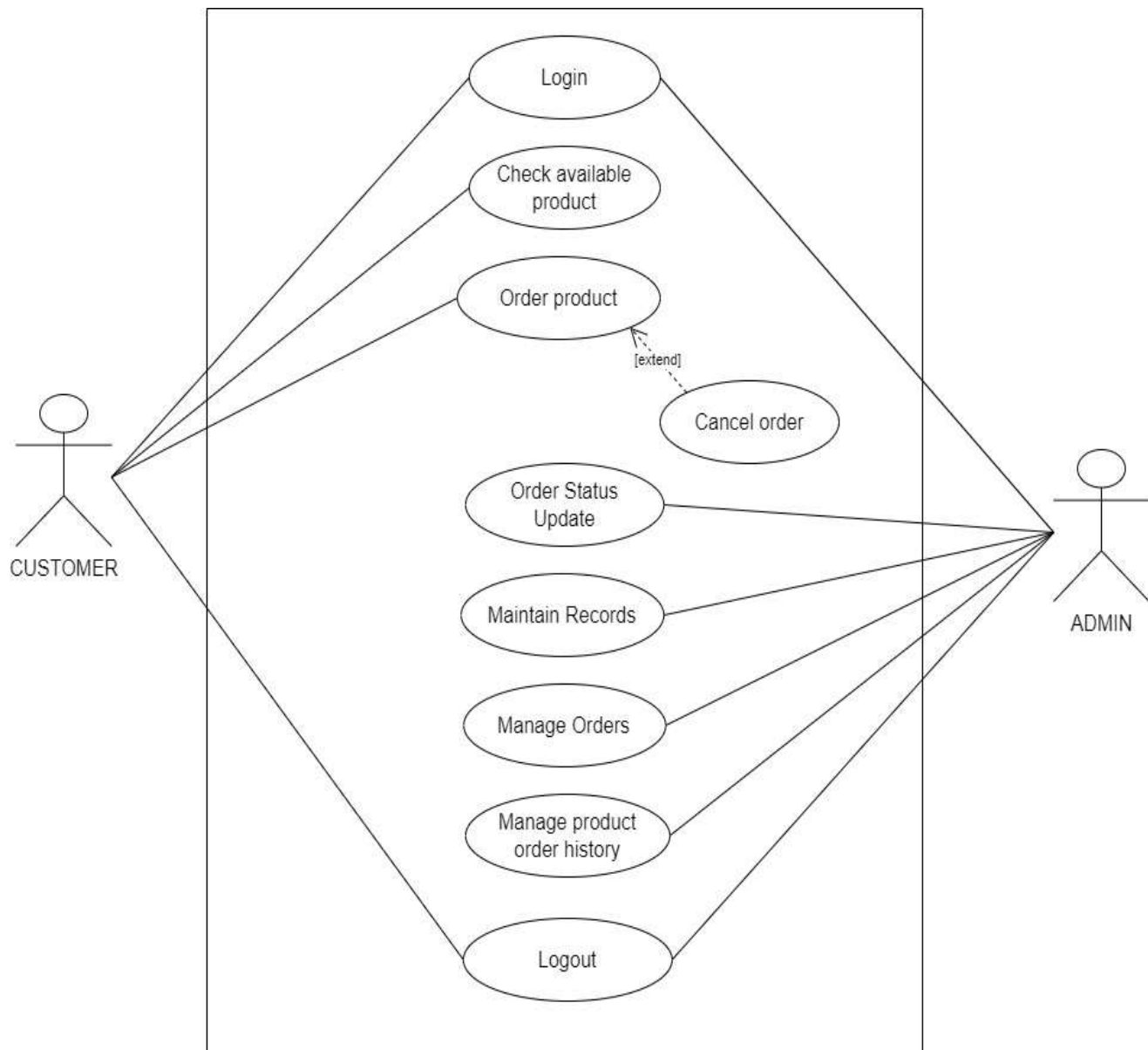
#### USE CASE DIAGRAM FOR PROFILE



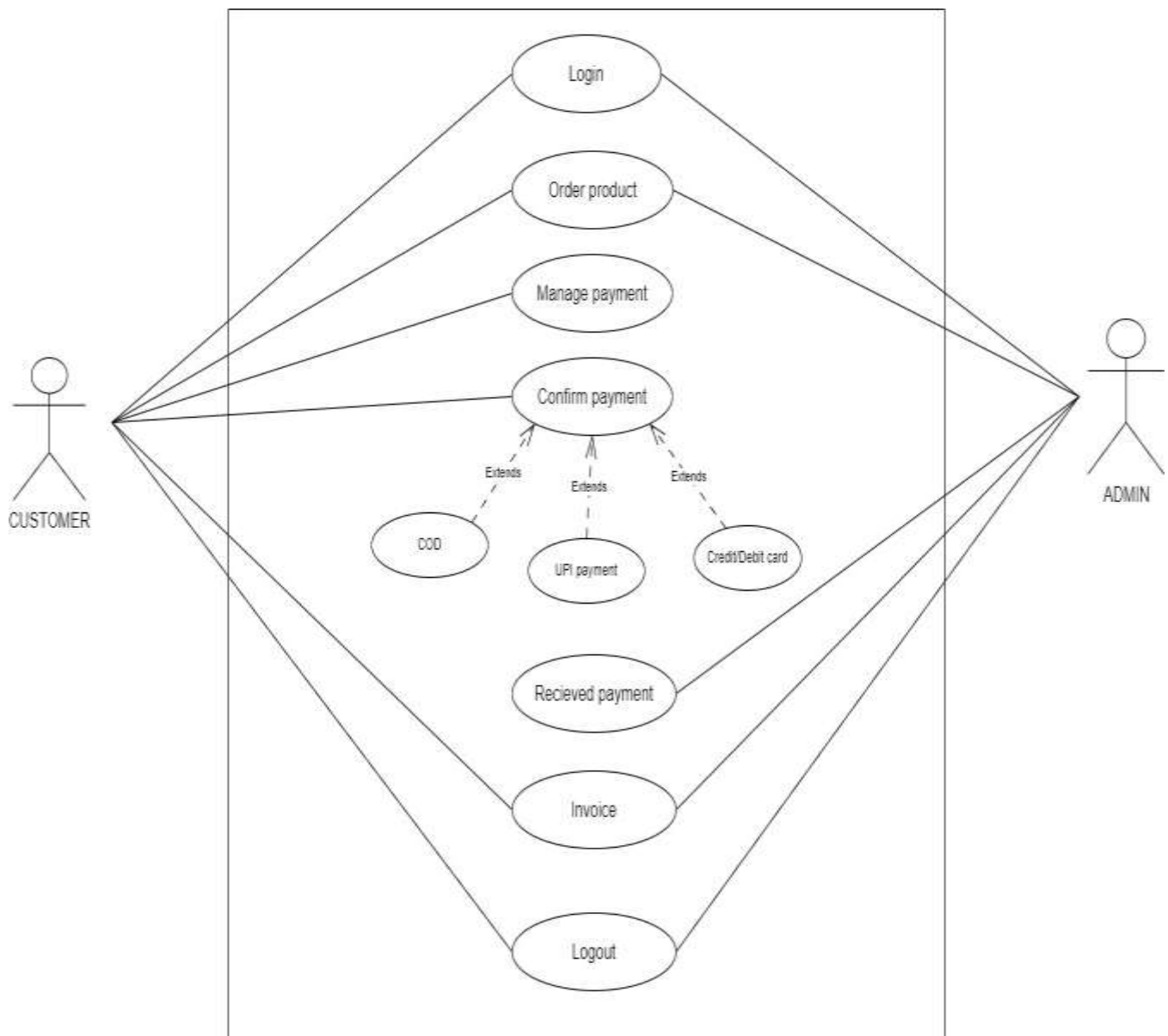
## USE CASE DIAGRAM FOR PRODUCT



## USE CASE DIAGRAM FOR ORDER

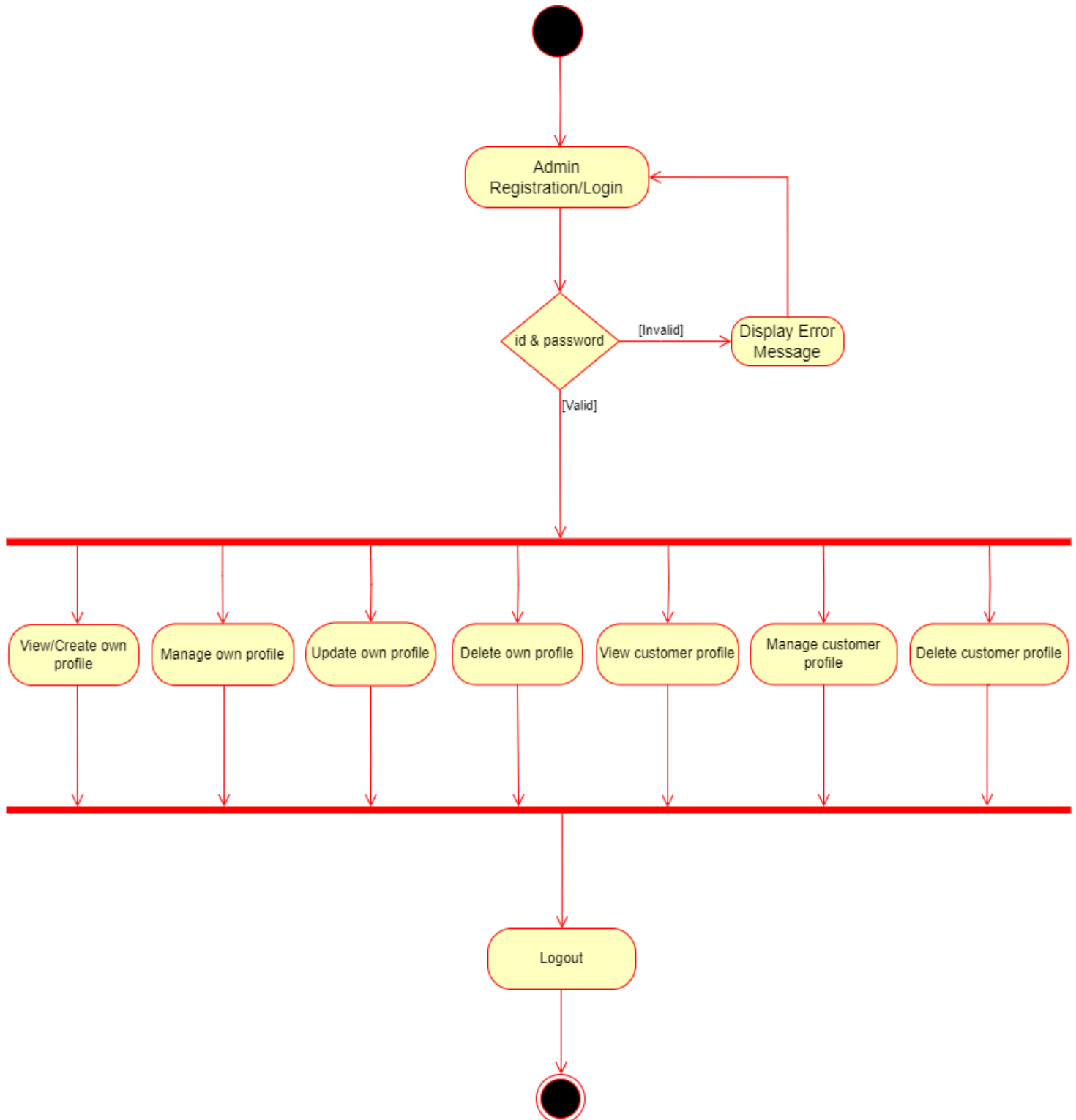


## USE CASE DIAGRAM FOR PAYMENT



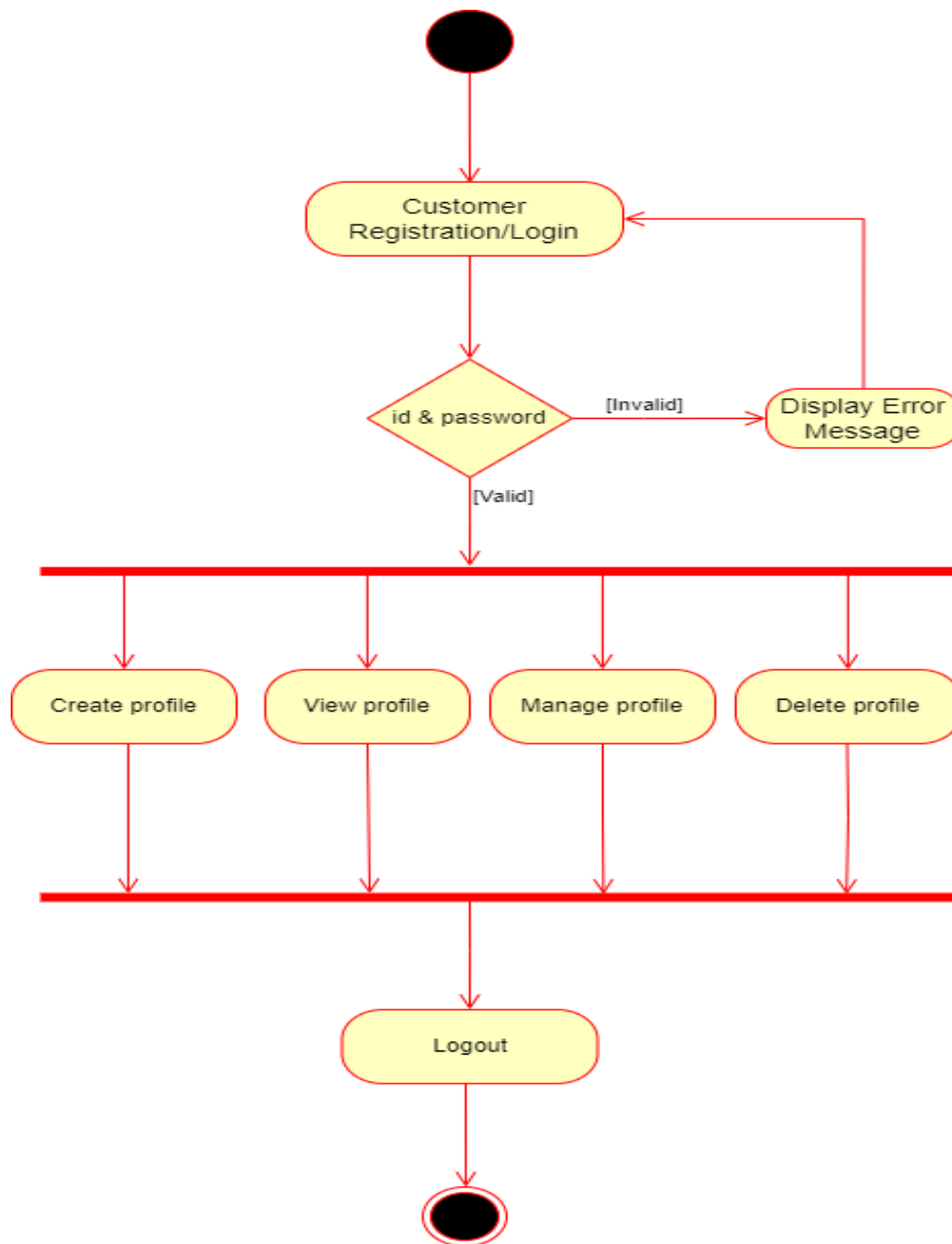
### 3.4 Activity Diagram:

#### ACTIVITY DIAGRAM FOR ADMIN PROFILE

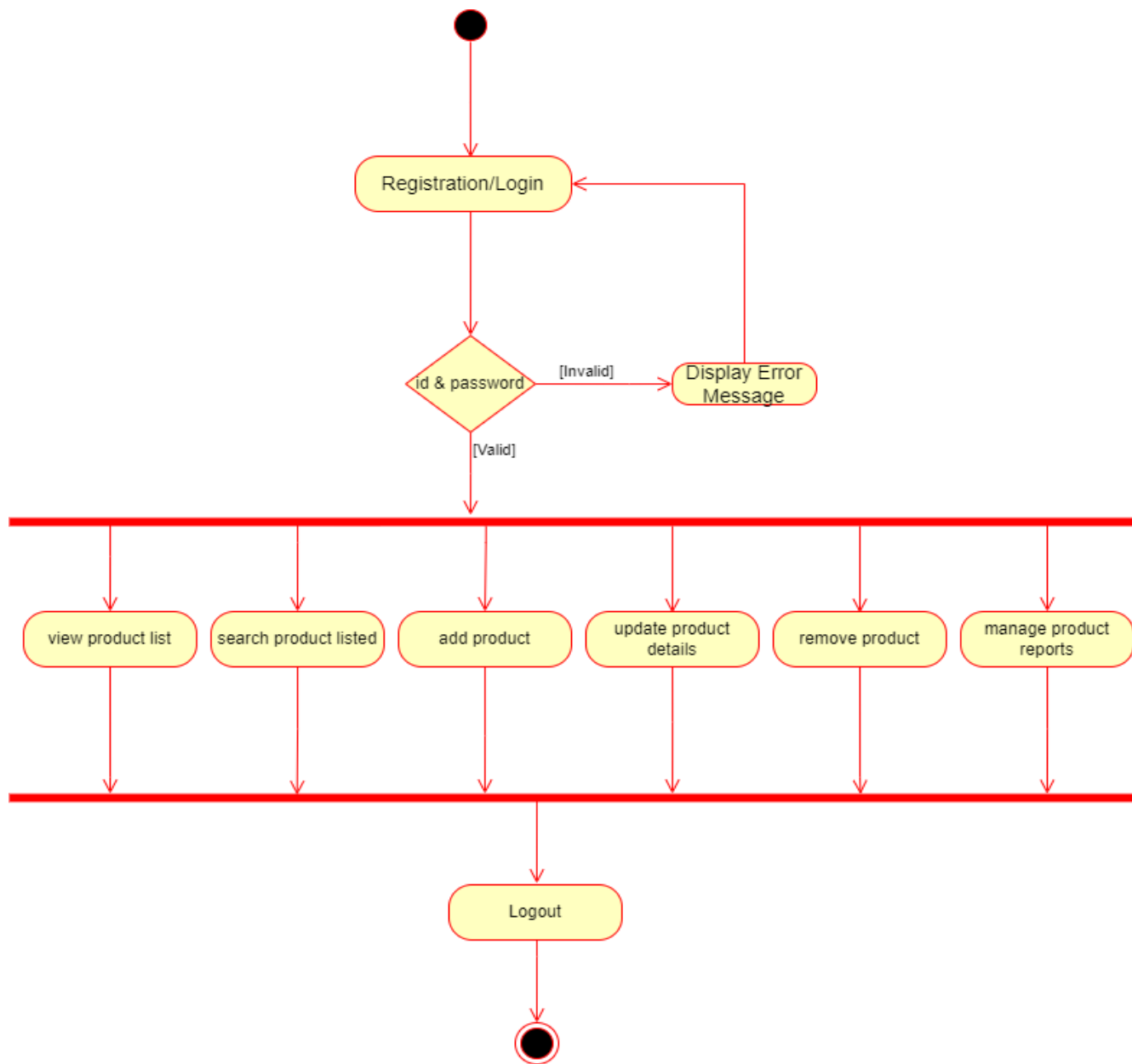




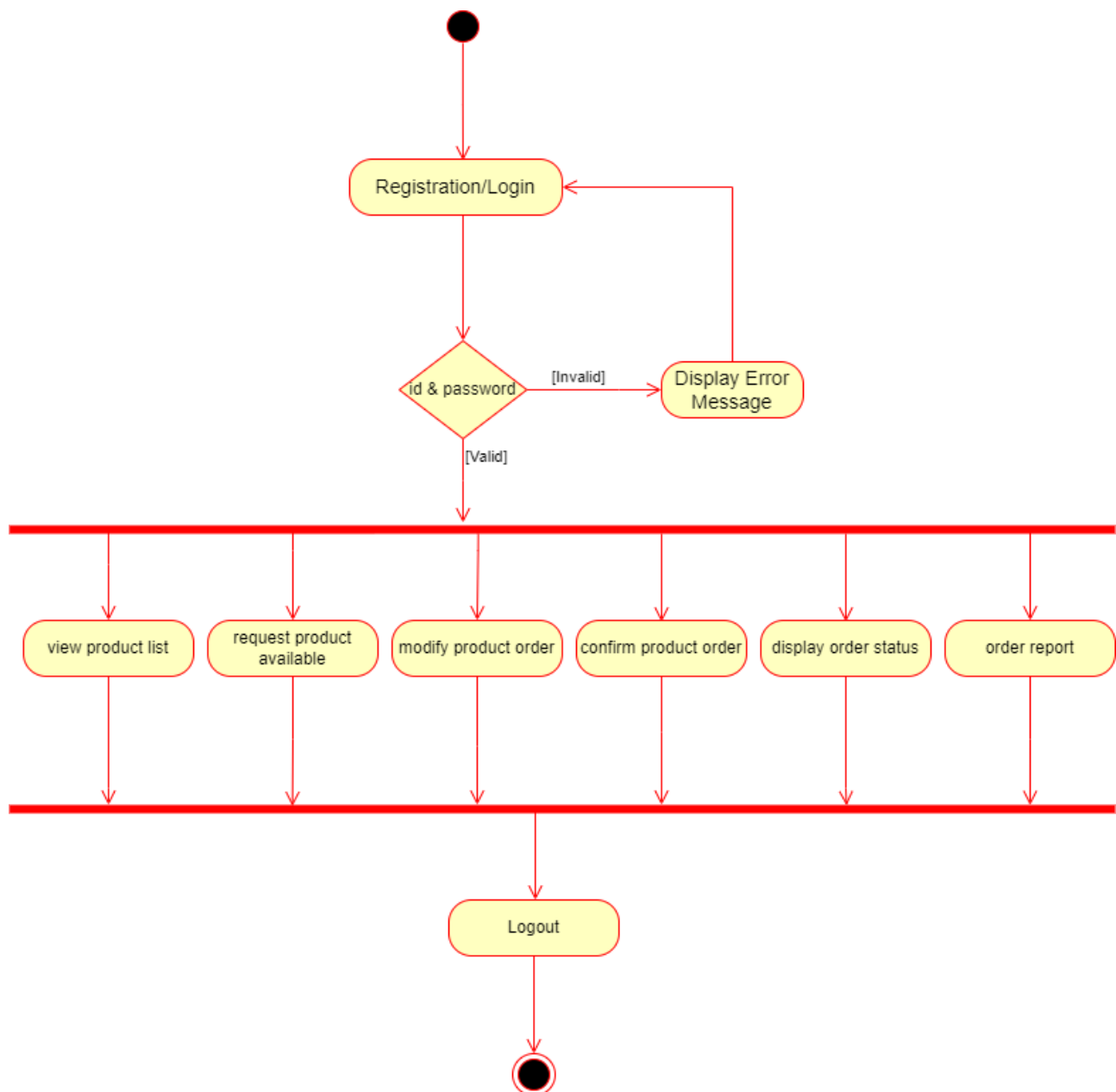
## ACTIVITY DIAGRAM FOR CUSTOMER PROFILE



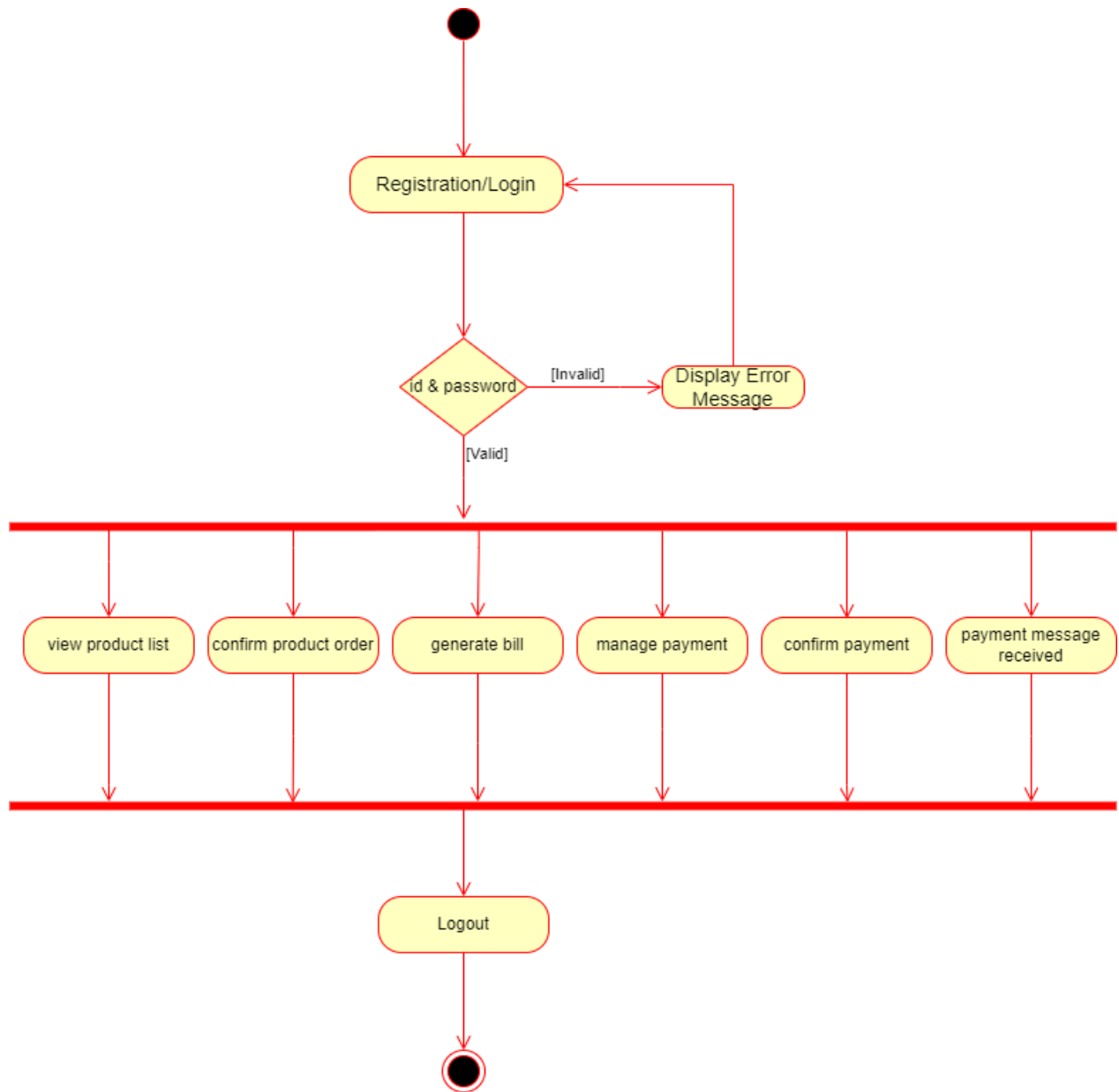
## ACTIVITY DIAGRAM FOR PRODUCT



## ACTIVITY DIAGRAM FOR ORDER

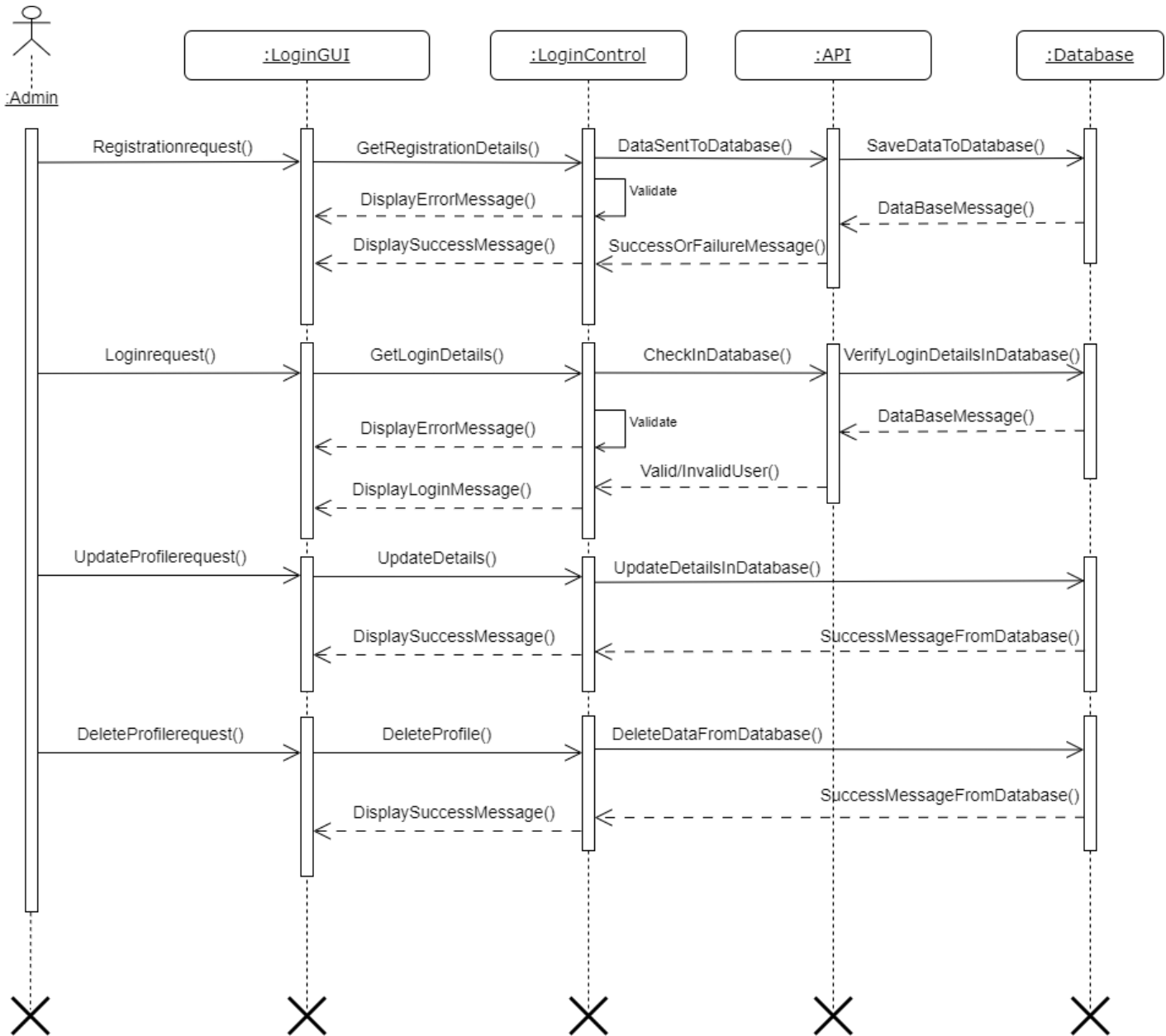


## ACTIVITY DIAGRAM FOR PAYMENT

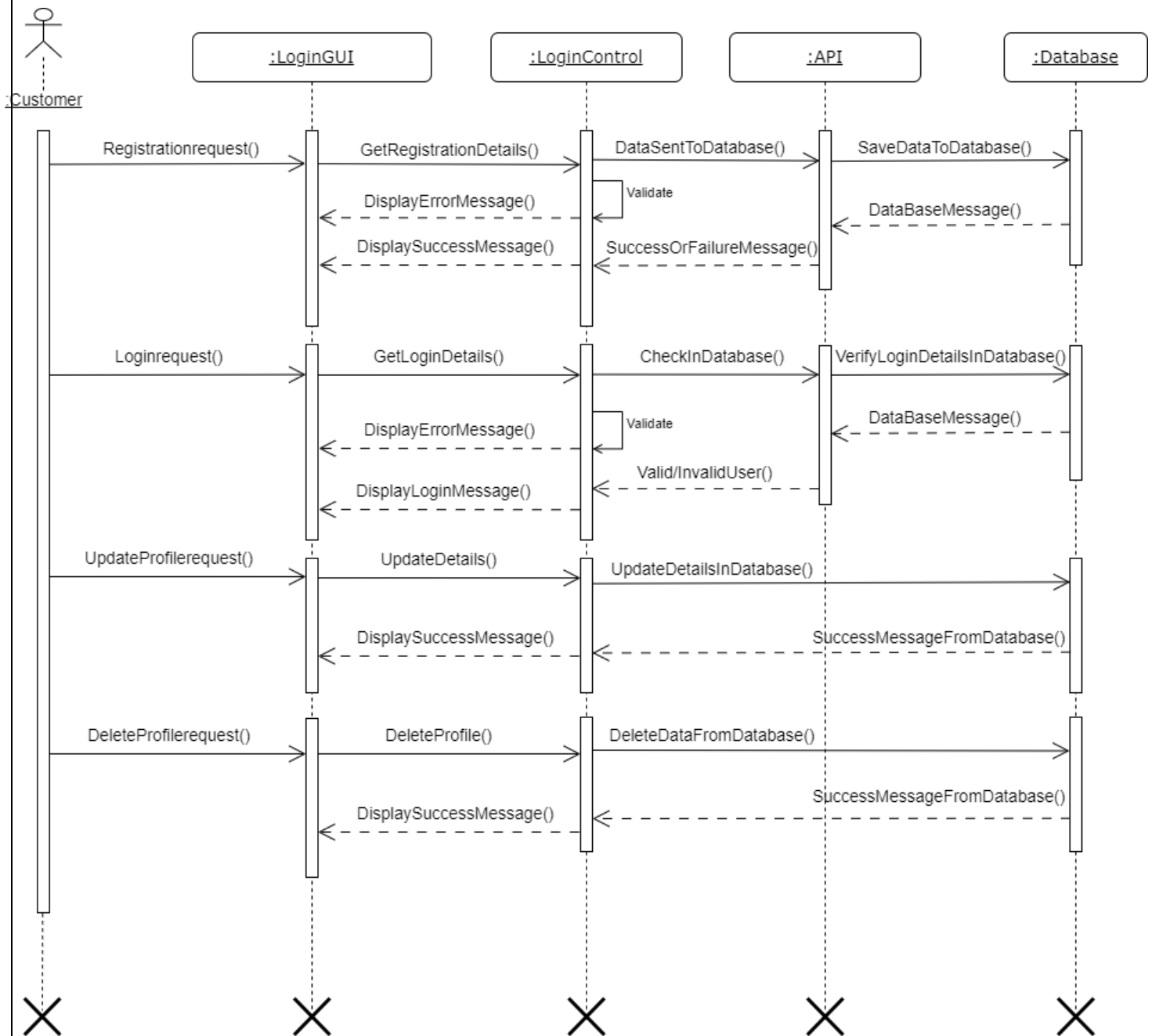


## 3.5 Sequence Diagram

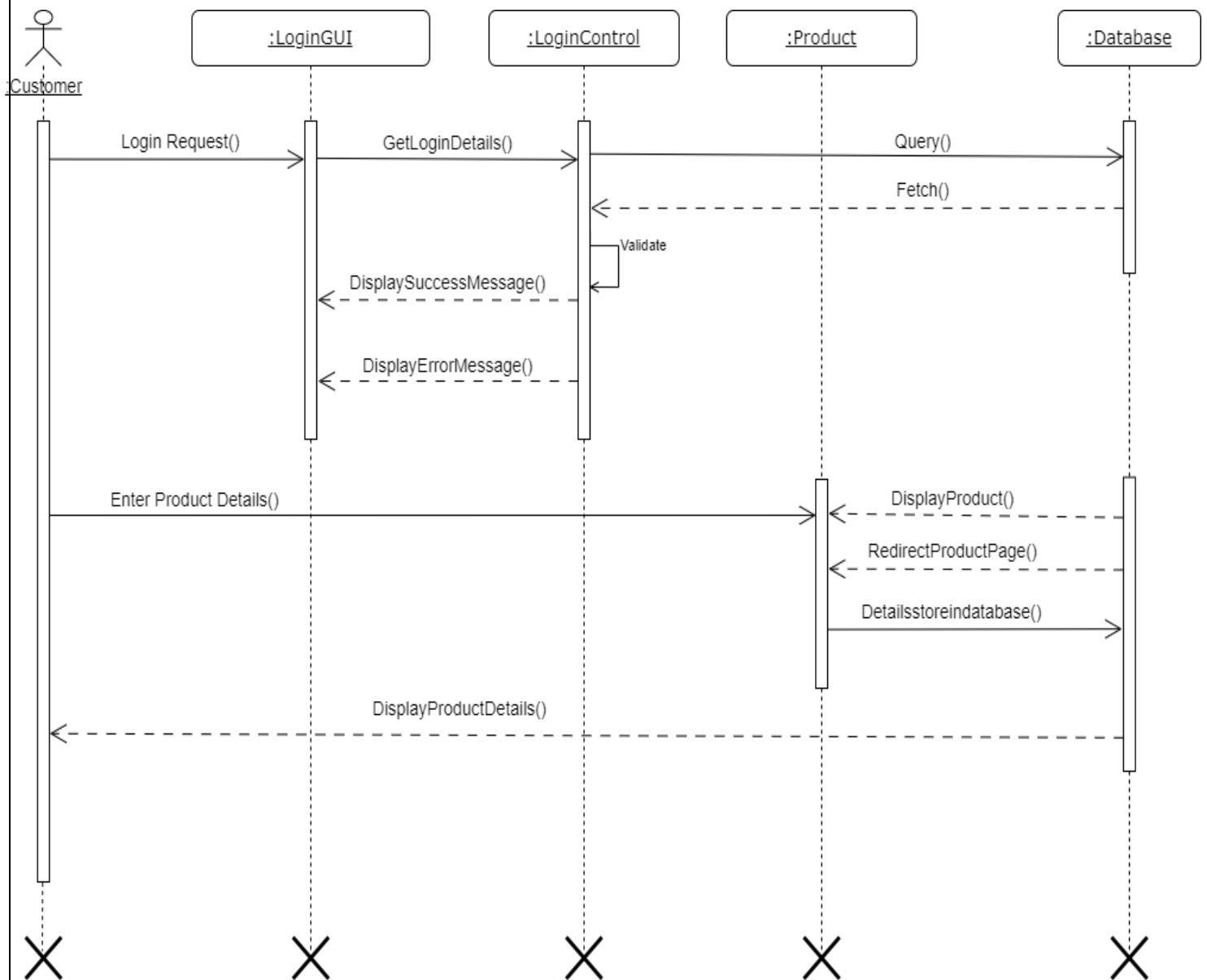
### SEQUENCE DIAGRAM OF ADMIN PROFILE



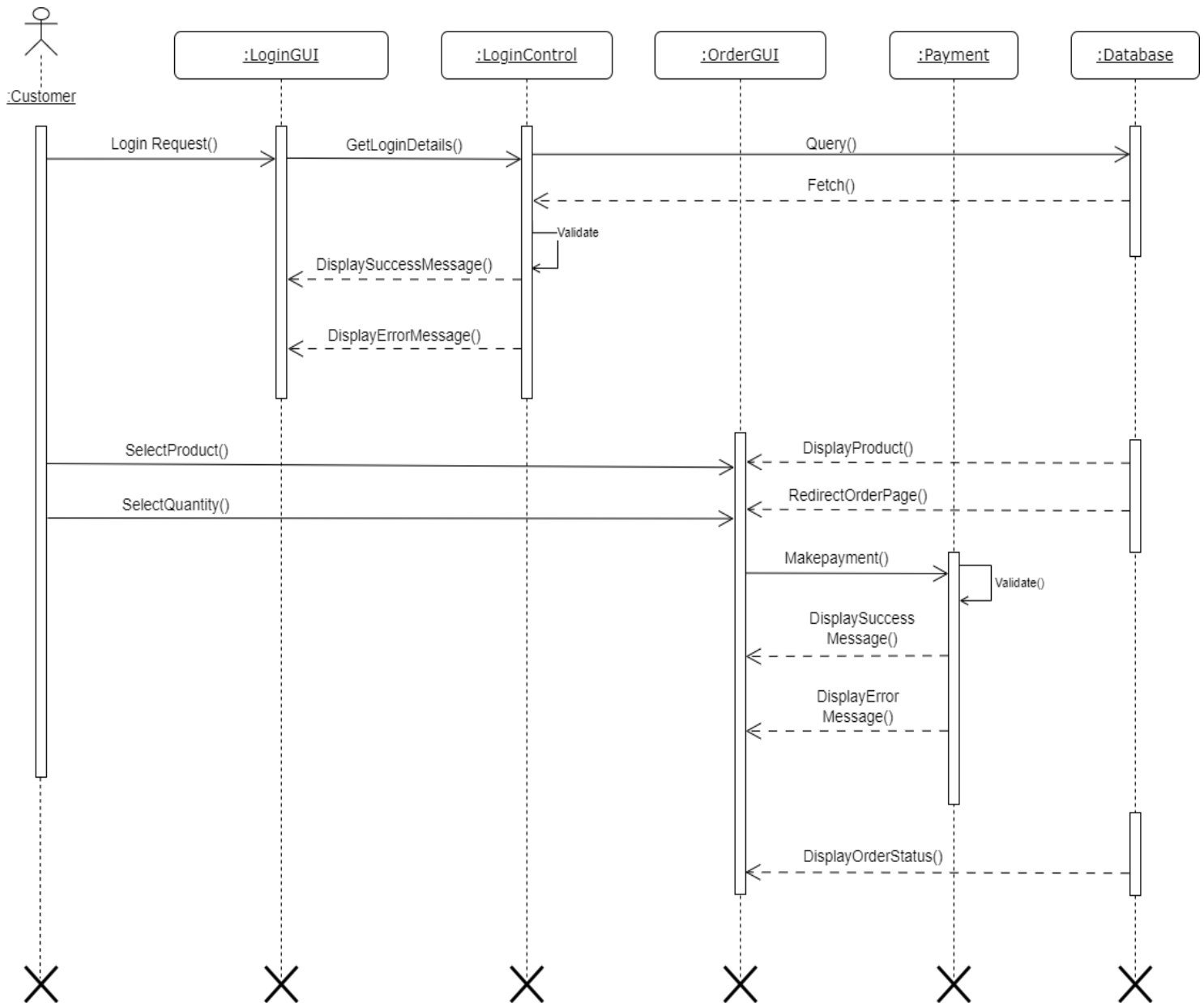
## SEQUENCE DIAGRAM OF CUSTOMER PROFILE



## SEQUENCE DIAGRAM OF PRODUCT

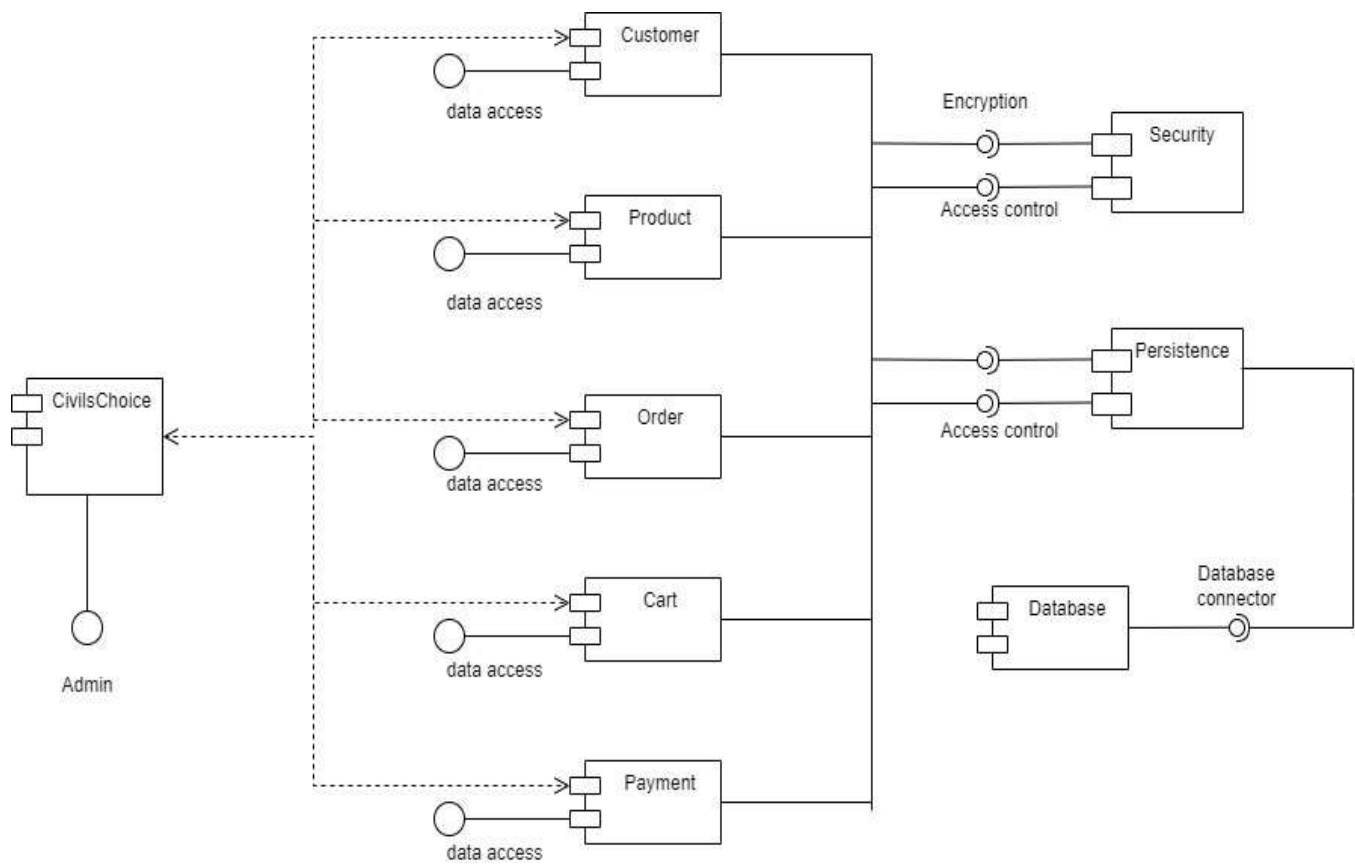


## SEQUENCE DIAGRAM OF PAYMENT AND ORDER





### 3.6 Component Diagram



### 3.7 Table Design

**TABLE Admin**

Sr.no	Field name	Field size	Data type	Description	constraint
1	a_id	10	int	Admin id	Primary key
2	a_fullname	30	varchar	Admin fullname	Not null
3	a_password	12	varchar	Admin password	Not null
4	a_contact	14	int	Admin contact	Not null
5	a_address	50	varchar	Admin address	Not null
6	a_mailid	30	varchar	Admin email	Not null
7	a_username	16	varchar	Admin username	Not null

**TABLE Cutsomer**

Sr.no	Field name	Field size	Data type	Description	constraint
1	c_id	10	int	Customer id	Primary key
2	c_mailid	30	varchar	Customer email	Default null
3	c_password	12	varchar	Customer password	Not null
4	c_name	30	varchar	Customer name	Default null
5	c_contact	14	int	Customer contact	Default null
6	c_address	50	varchar	Address of Customer	Default null
7	c_username	16	varchar	Username of customer	Default null

**TABLE Order**

Sr.no	Field name	Field size	Data type	Description	constraint
1	o_id	10	int	Order id	Primary key
2	pr_id	10	int	Product id	Foreign key
3	o_quantity	10	int	Quantity of product	Default null
4	o_tprice	10	float	Price of product	Default null
5	o_date	10	varchar	Name of product	Default null
6	c_id	10	int	Customer id	Foreign key

**TABLE Product**

Sr.no	Field name	Field size	Data type	Description	constraint
1	pr_id	10	int	Product id	Primary key
2	pr_name	20	varchar	Product name	Not null
3	pr_description	30	varchar	Category of product	Not null
4	pr_price	10	float	Price of product	Not null
5	pr_image	100	varbinary	Image of product	Not null
6	pr_quantity	30	varchar	Product description	Not null
7	pr_category	10	varchar	Category of product	Not null



**TABLE Payment**

Sr.no	Field name	Field size	Data type	Description	constraint
1	p_id	10	int	Price of product	Primary key
2	c_id	10	int	Customer id	Foreign key
3	o_id	10	int	Order id	Foreign key
4	p_method	10	int	Payment method	Not null
5	p_tbill	10	float	Total bill of product order	Not null
6	pr_id	10	int	Product id	Foregin key

### 3.8 Data Dictionary

Field name	Datatype	Size	Constraints	Description	Table Name
a_id	int	10	Primary key	Represent admin Id	Admin
a_fullname	varchar	40	Not null	Represent admin full name	Admin
a_password	varchar	12	Not null	Represent admin login password	Admin
a_contact	varchar	14	Not null	Represent admin phone no	Admin
a_address	varchar	50	Not null	Represent admin address	Admin
a_mailid	varchar	30	Not null	Represent admin email id	Admin
c_id	int	10	Primary key	Represent Customer id	Customer, Order, Payment
c_fullname	varchar	40	Default null	Represent Customer name	Customer
c_mailid	varchar	30	Not null	Represent Customer email id	Customer
c_password	varchar	12	Not null	Represent Customer password	Customer
c_contact	int	14	Default null	Represent Customer contact	Customer
c_address	varchar	50	Default null	Represent Customer address	Customer
o_id	int	10	Primary key	Represent order id	Order, payment
o_quantity	int	10	Default null	Represent order quantity	Order
o_date	int	10	Primary key	Represent order date	Order

o_tprice	float	10	Default null	Represent order price	Order
pr_id	int	10	Primary key	Represent product id	Order, payment, product
pr_name	varchar	30	Not null	Represent product name	Product
pr_description	varchar	30	Not null	Represent product description	Product
pr_price	float	10	Not null	Represent product price	Product
pr_quantity	varchar	30	Not null	Represent product quantity	Product
pr_image	varbinary	100	Not null	Represent product image	Product
p_id	int	10	Not null	Represent payment id	Payment
p_tbill	float	10	Not null	Represent payment total bill	Payment
p_method	varchar	10	Not null	Represent payment method	Payment
a_username	varchar	16	Not null	Represent admin login name	Admin
c_username	varchar	16	Not null	Represent customer login name	Customer
pr_category	varchar	10	Not null	Represent category of product	Product

