- **What is SDLC?**

SDLC is a software development life cycle.

Software development life cycle a series of steps or phase that provides the model of development

- **What is software testing?**

Testing is executing a system in order to identify any gaps, errors, or missing requirements in contrary to the actual desire or requirements.

Software testing is a process used to identify the correctness, completeness, and quality of developed computer software.

- **What is agile methodology?**

it is combination iterative and increment model.

It is divides the software into small incremental builds are provided in iteration that means the bug project are into small chunk.

- **What is SRS?**

SRS is a complete description of an application which is to be developed

- **What is oops?**

Object oriented programming is way of writing the programs in organized object are like a black box where data are hidden.

- **What is basic concept of oops?**

  1. class

  2. object

  3. inheritance

  4. polymorphism

     -over riding

     -overloading

  5. encapsulation

  6. abstraction

- **What is object?**

  Object gives the permission to access functionality of the class.

- **What is class?**

Class is a collection of data member and member function.

- **What is encapsulation?**

Encapsulation is the practice of including in an object everything it needs hidden from other object. The internal state is usually not accessible by other object.

- **What is inheritance?**

Making a class from an existing class deriving the attribute of some other class.
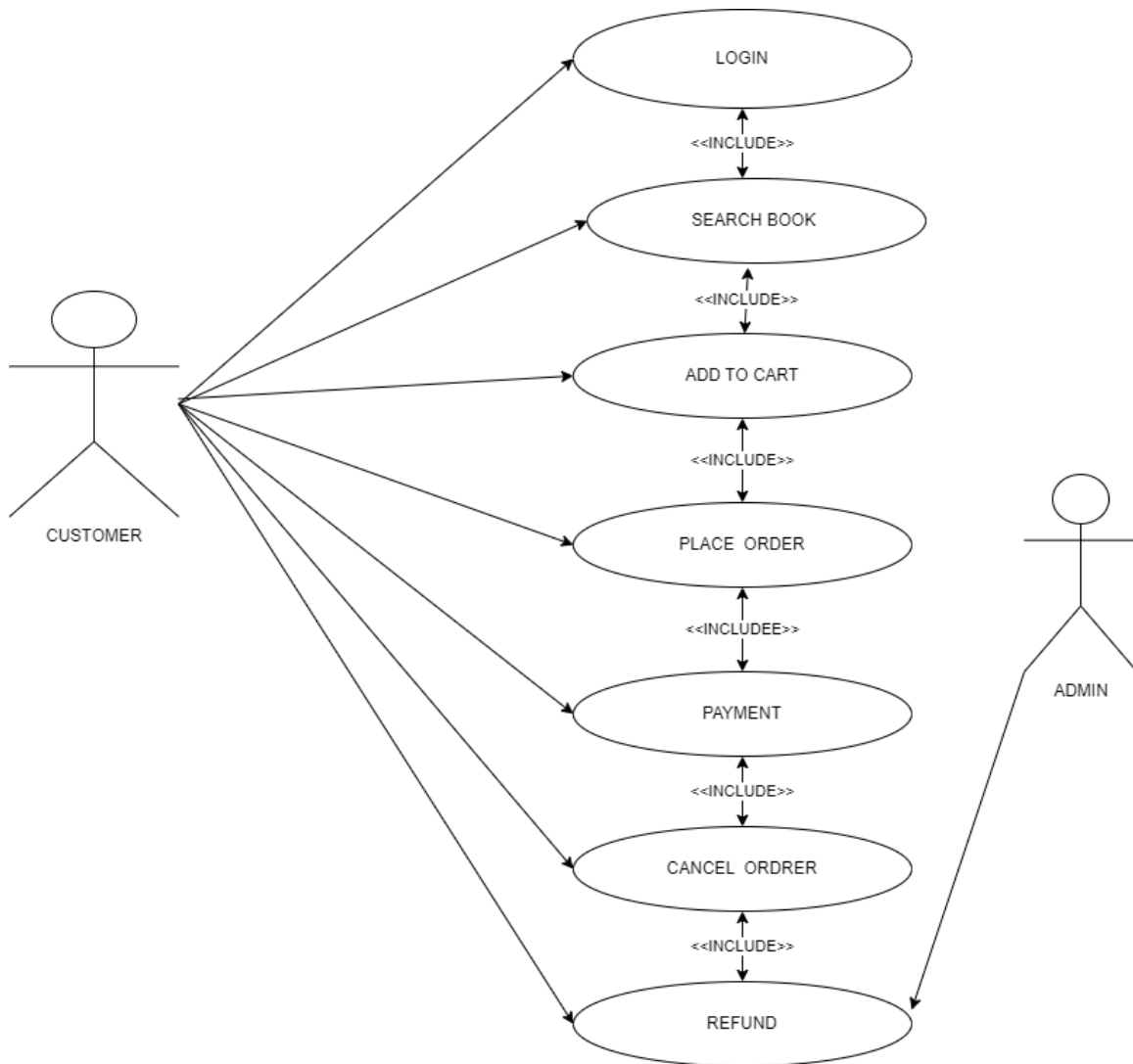
- **What is polymorphism?**
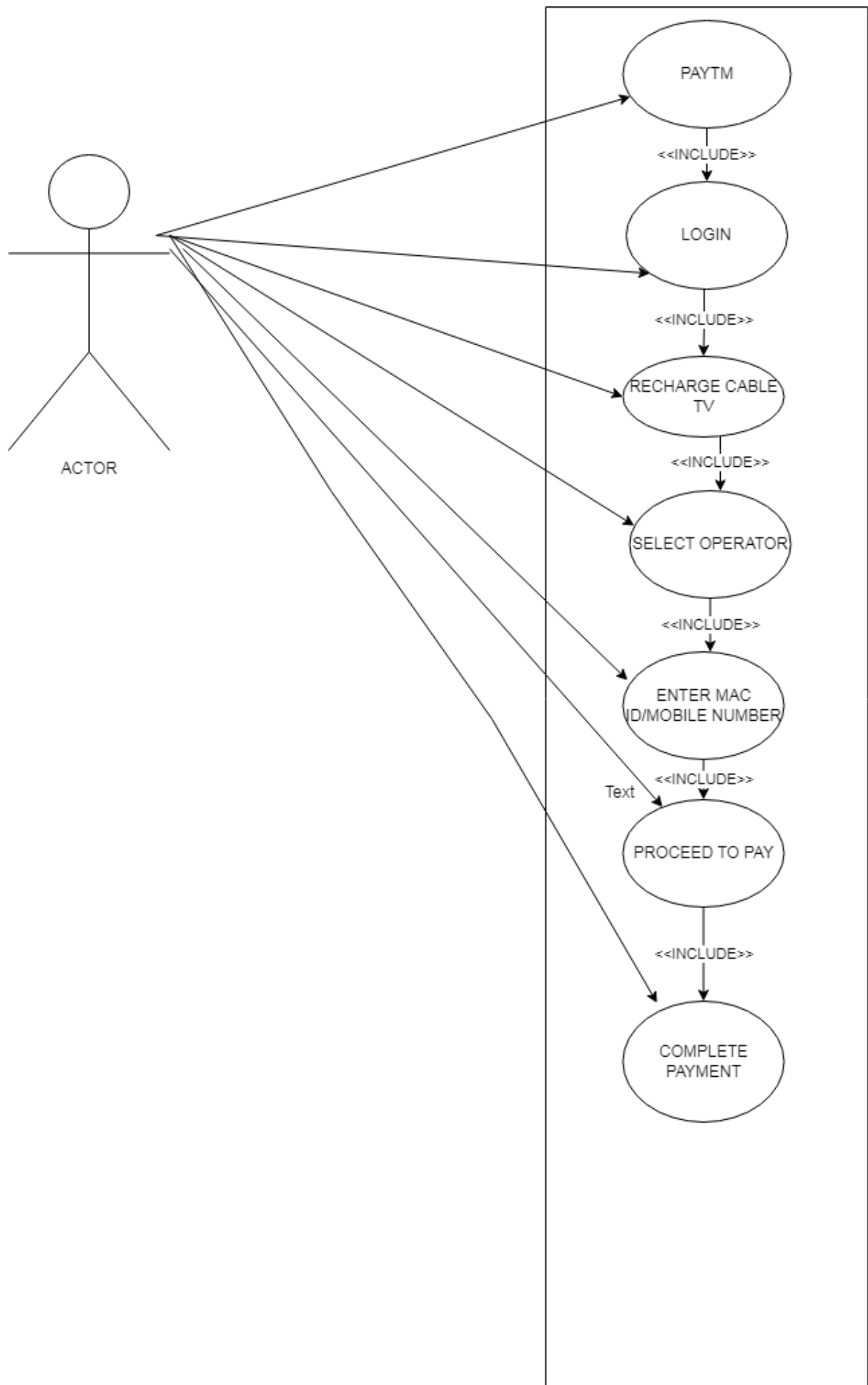
One name multiple form

Type

-Over riding = same name of function with same parameter but definition will be different.

-Over loading = function over loading – same function name but different parameter.

- **Draw use case on online book shopping**

- **Draw usecase on online bill payment system (paytm).**

ACTOR

PAYTM

<<INCLUDE>>

LOGIN

<<INCLUDE>>

RECHARGE CABLE TV

<<INCLUDE>>

SELECT OPERATOR

<<INCLUDE>>

ENTER MAC ID/MOBILE NUMBER

<<INCLUDE>>

Text

PROCEED TO PAY

<<INCLUDE>>

COMPLETE PAYMENT

- **Write SDLC phases with basic introduction?**

Requirements collection/Gathering	Establish customer needs.
Analysis	Model and specify the requirements - "What"
Design	Model and specify a solution – "why"
Implementation	Construction the solution in software.
Testing	Validate the solution against the requirements.
maintenance	Repair defects and adapt the solution to the new requirements.

- **Explain phases of the waterfall model.**
    - Requirements gathering
    - Analysis
    - Design
    - Implementation
    - Testing
    - Maintenance

- **Write phase of spiral model.**
    - Planning = determination of objective, alternatives and constraints initial requirement s
    - Risk analysis = analysis of alternatives and identification/ resolution of risk
            (Risk = something that will delay project or increase its cost)
    - Engineering = development of the "next level" product.
    - Customer evaluation = assessment of the result of engineering.

- **Explain working model and also methodology of agile write pros and cons?**
    - It is a combination iterative & incremental model.
    - It divided the software into small incremental builds, this build are provide in iteration, that means the big project are divided into small chunks.
    - Each iteration last about one to three weeks.
    - At the end of the iteration the working product is displayed to the customer or the important stoke holder & it is released in the market.
    - After the release we check for the feedback of deployed software
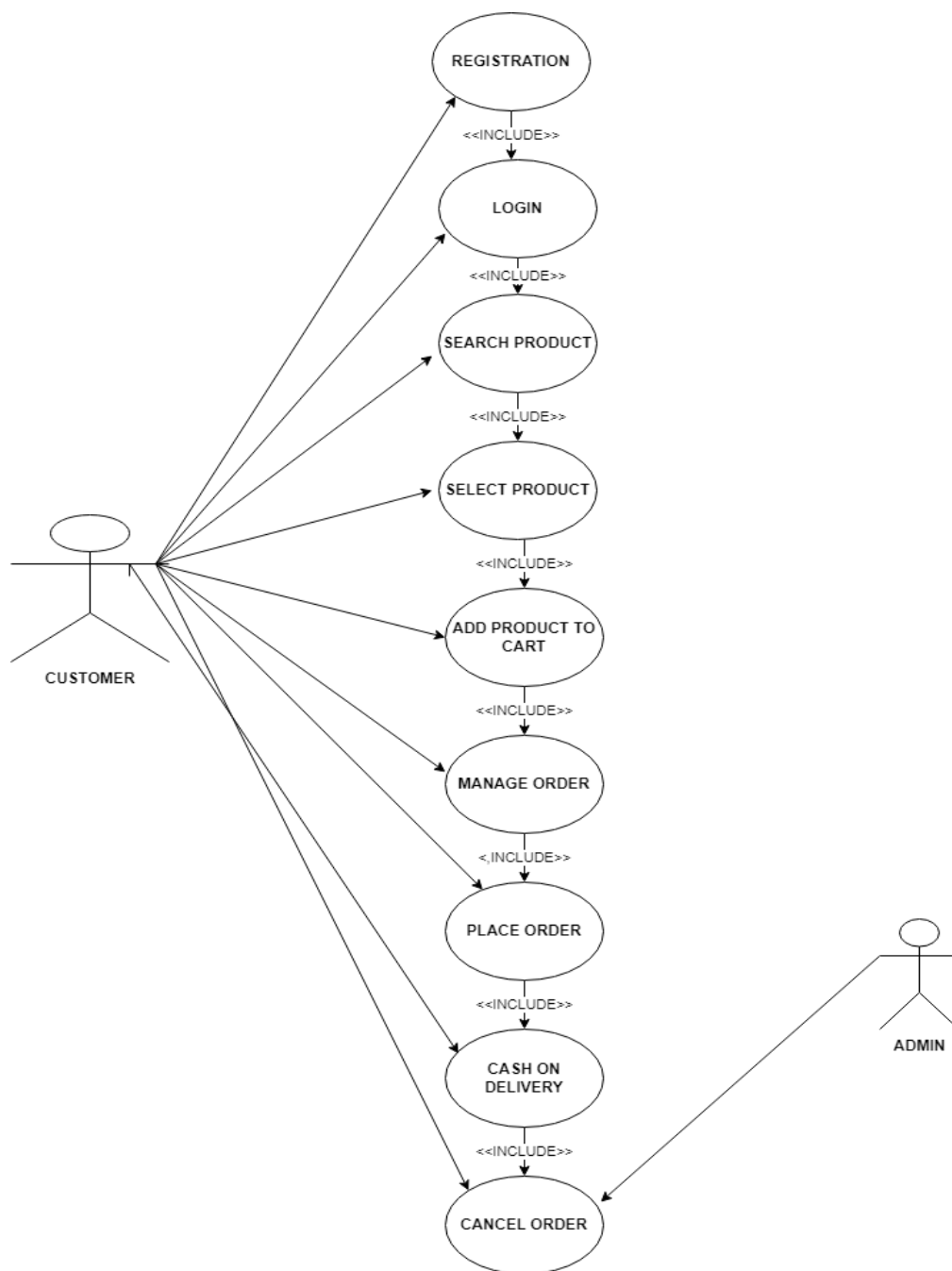   - In any enhancement is needed in the project then it's done & it's released.

    Pros
    - Frequent delivery
    - Face to face communication with the customer
    - Less time
    - Adaptability

Cons

- Less documentation
- Maintenance

- **Draw use case on online shopping product using COD.**

- **Draw use case on online shopping product using payment gateway.**