ASSIGNMENT – 1

MODULE - 1

By

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SDLC has 6 phase.

1. Requirement gathering

2. Analysis

3. Design

4. Implementation

5. Testing

6. Mentenance

What is SDLC ?

→ Software Devlopment Life Cycle

What is software testing ?

- Software testing is some time incorrectly fact activty and performed after programing is done for product.
- Testing is the process of evaluating a system or its components.
- It identify the correctness, completeness and quality.

What is agile methodology ?

- Agile model is a combination of ittretive and incremental process model.
- Agile model's every project needs to be handel differntly and the exsting methods.

What is SRS?

- SRS is a complete description of the behavior of system to be developed.

- SRS has 3 types of requirements.

1. Customer requirements

2. Functional requirements

3. Non functional requirements

What is oops ?

- oops is an Object Oriented Programming.

Write basic concept of oops.

These are the basic components.

- Object
- Class
- Abstraction
- Encapsulation
- Inheritance
- Polymorphisam

What is object ?

- An entity which has own state and behaviour that is called an object.
- Ex: pen,paper,chair etc..

What is class ?

- Class is a collection of object.
- Ex: Human body

What is encapsulation ?

- Wraping up of the data or binding of the data is called encapsulation.
- Ex: capsule

What is inheritance ?

- When one object acquire all the properties and behaviour of parent class is inheritance.
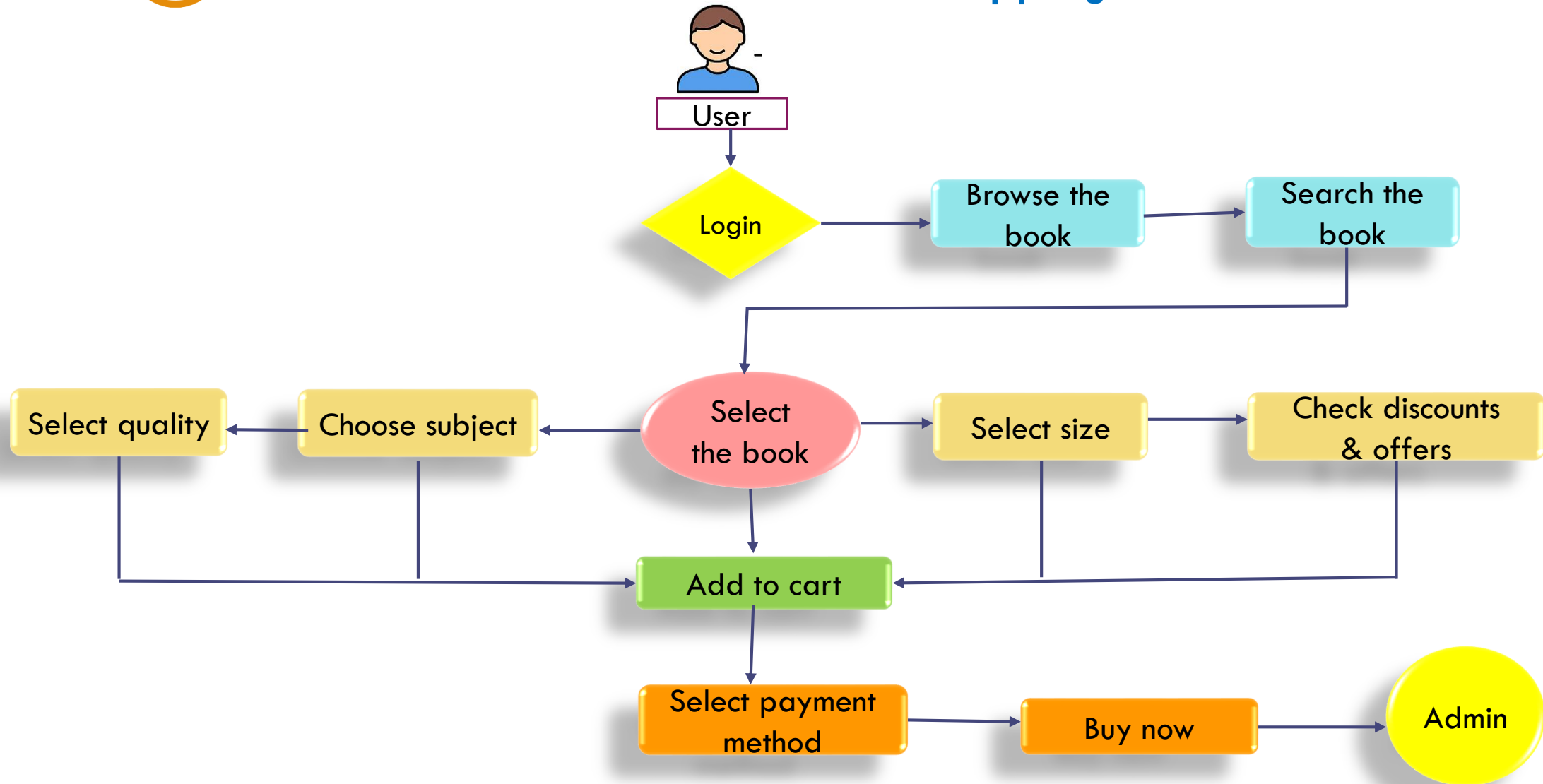- Ex: Father - son

What is polymorphism ?

- Many ways to perform anything is called polymorphism.
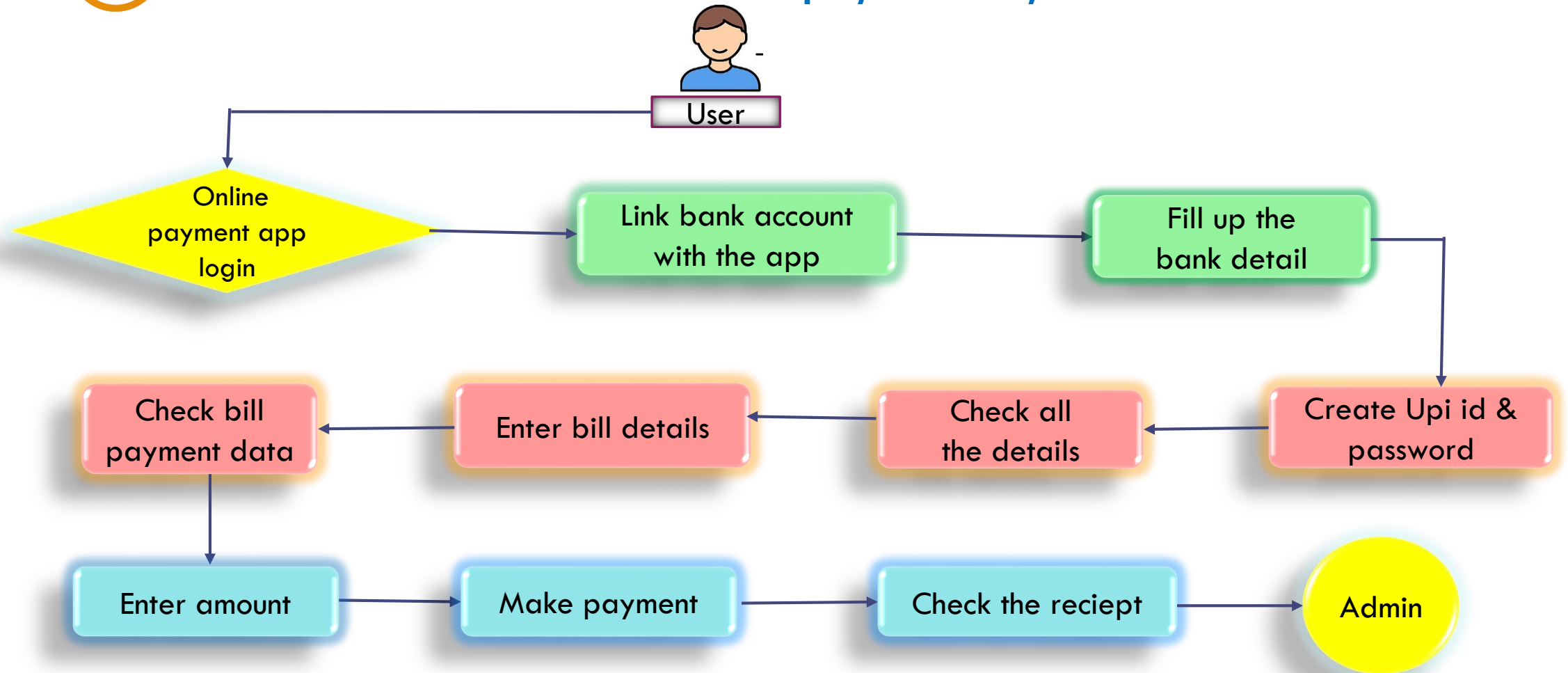- Ex: Method overloading
  Method overriding

Draw usecase on online book shopping.

Draw usecase on online bill payment system.

User

```
Online payment app login  →  Link bank account with the app  →  Fill up the bank detail
                                                                         ↓
Check bill payment data  ←  Enter bill details  ←  Check all the details  ←  Create Upi id & password
        ↓
Enter amount  →  Make payment  →  Check the reciept  →  Admin
```

Write SDLC phases with basic introduction.

- These are the SDLC phases.

1. Requirements → This involves gathering information and needs from clients.

2. Analysis → This involves specific software requirements from clients. (what)

3. Design → This involves overall structure and solution. (why)

4. Implementation → This involves development a solution in software.

5. Testing → This involves ensure that it meets the requirements correctly.

6. Mentenance → This involves ongoing support and repair defects.

Expain phases of the waterfall model.

- These are the phases of the waterfall model.

1. Requirements

- This includes client's need and requirements.

2. Analysis

- This includes detailed requirements of document.

3. Design

- This create the technical plan as blueprint.

4. Implementation

- The design is developed and tested individually during this.

5. Testing

- This includes testing for faults and performance issues.

6. Maintenance

- This phase is for ongoing support and bug fixes.

Write phases of spiral model.

- These are the phases of spiral model.

Planning

Risk analysis
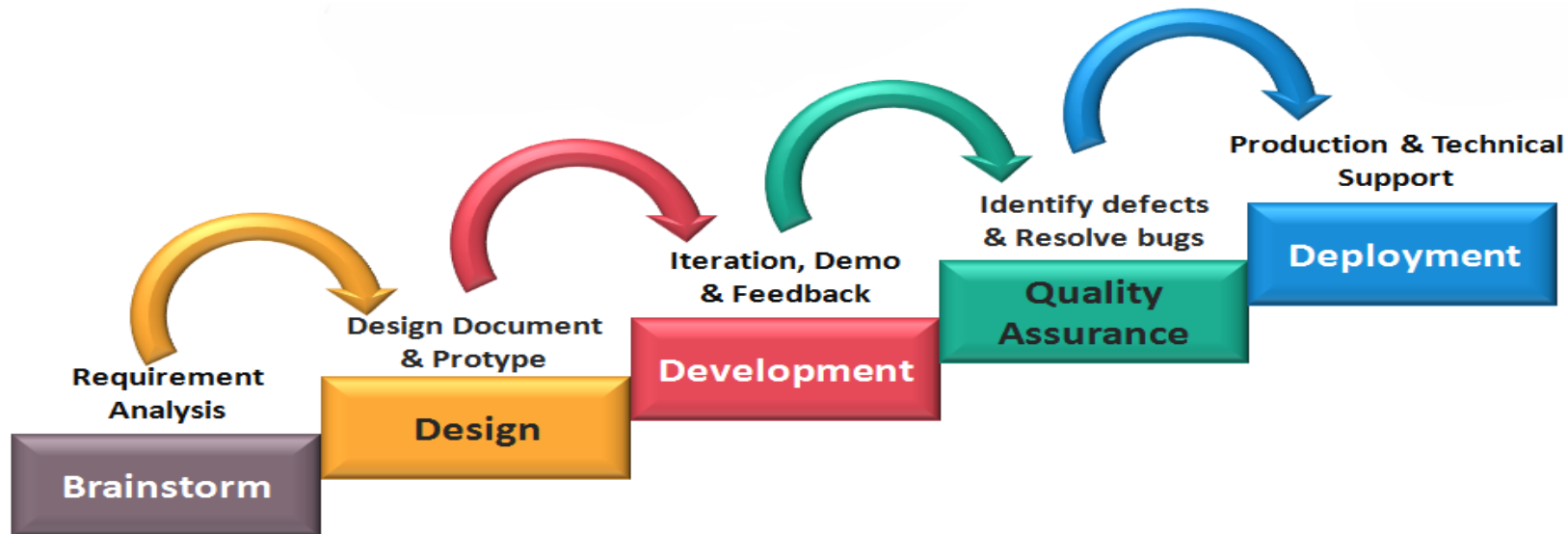
Engineering

Customer evaluation

Write agile manifesto principles.

- These following are the agile manifesto principles.

- Customer satisfaction through early and continuous software delivery
- Accommondate changing requirements throughout the process
- Frequent delivery of working software
- Collaboration between the business stakeholders and developers
- Support, trust and motivate the people involved
- Enable face to face interaction
- Working software is the primary measure of progress
- Agile processes to support a consistent development
- Attention to technical detail and design enhancement
- Simplicity
- Regular reflections on how to become more effective

Explain working methodology of agile model and also write pros and cons.

Requirement Analysis

Brainstorm

Design Document & Protype

Design

Iteration, Demo & Feedback

Development

Identify defects & Resolve bugs

Quality Assurance

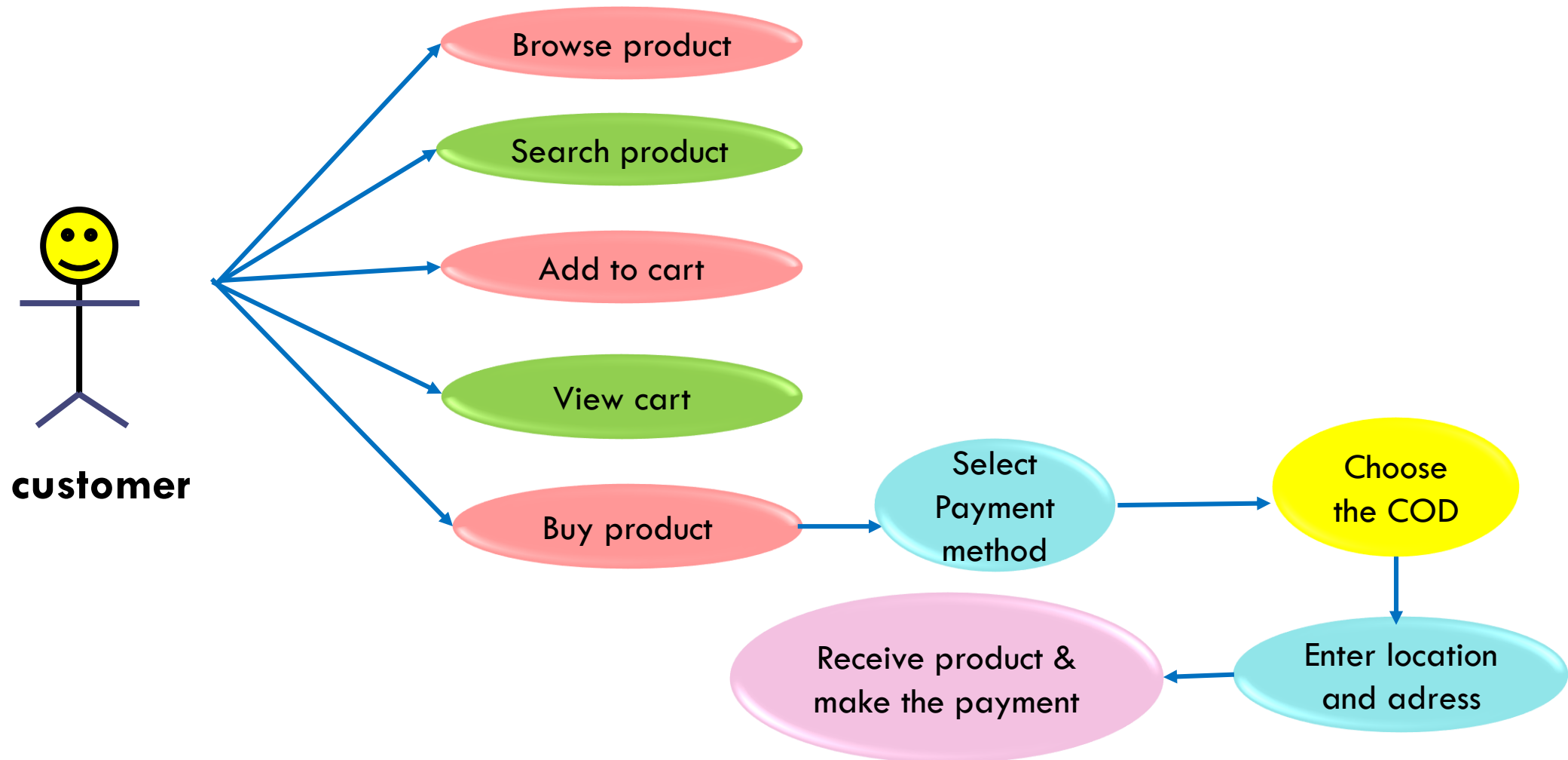Production & Technical Support

Deployment

Pros.
- Increase flexibility
- Faster time to market
- Higher satisfaction
- Improved collaboration
- Better risk management
- Best product quality

Cons.
- Reduce predictability
- Lack of comprehensive documentation
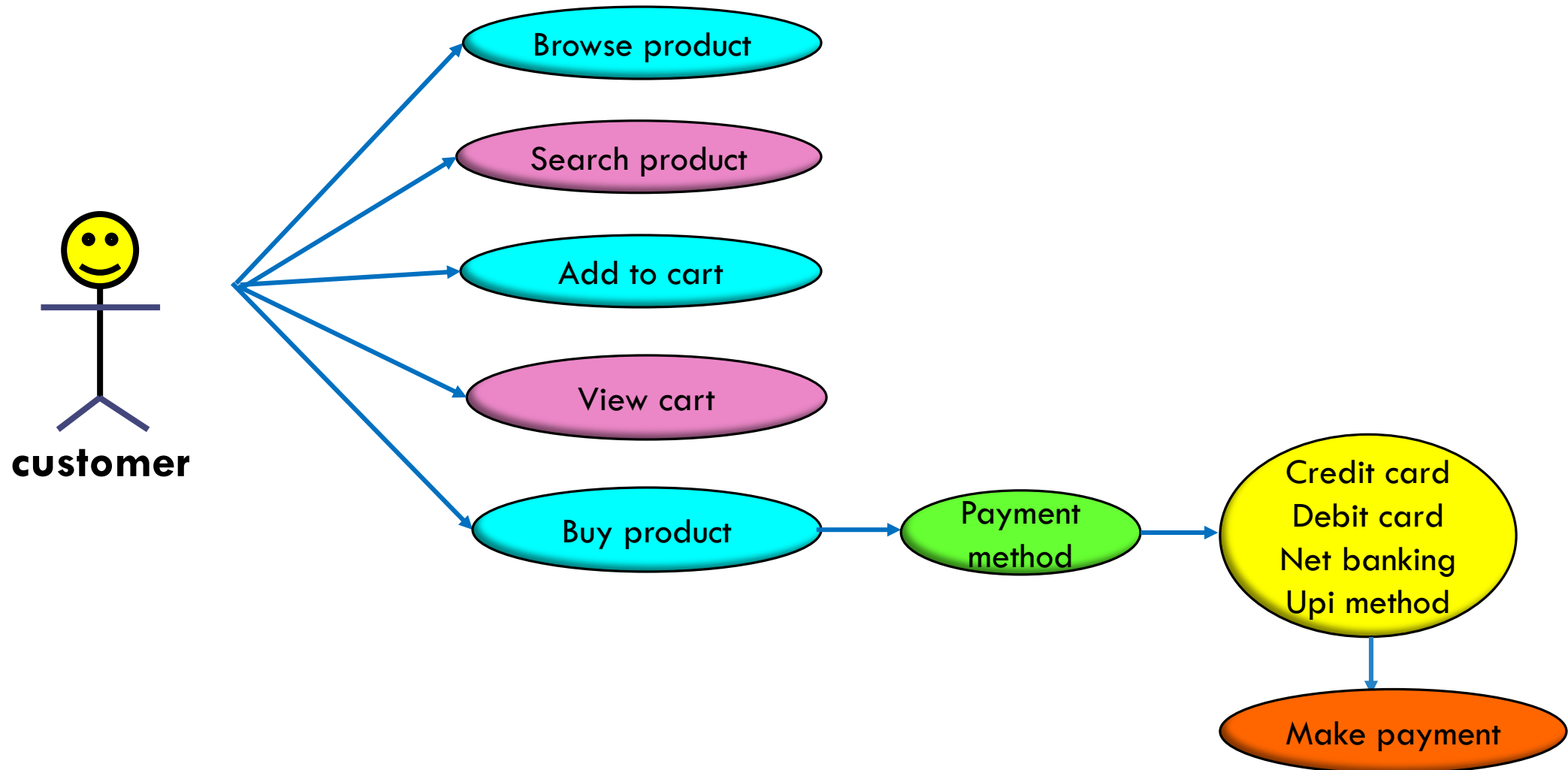- Potential scope creepe
- Not for every project

Draw usecase on online shopping product using COD.

Draw usecase on online shopping product using payment gateway.

THANK YOU....