

SNS COLLEGE OF TECHNOLOGY

Kurumbapalayam (Po), Coimbatore – 641 035

An Autonomous Institution

Accredited by NAAC – UGC with ‘A++’ Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**COURSE NAME: 23ITO201- Software Testing
(OPEN ELECTIVE)**

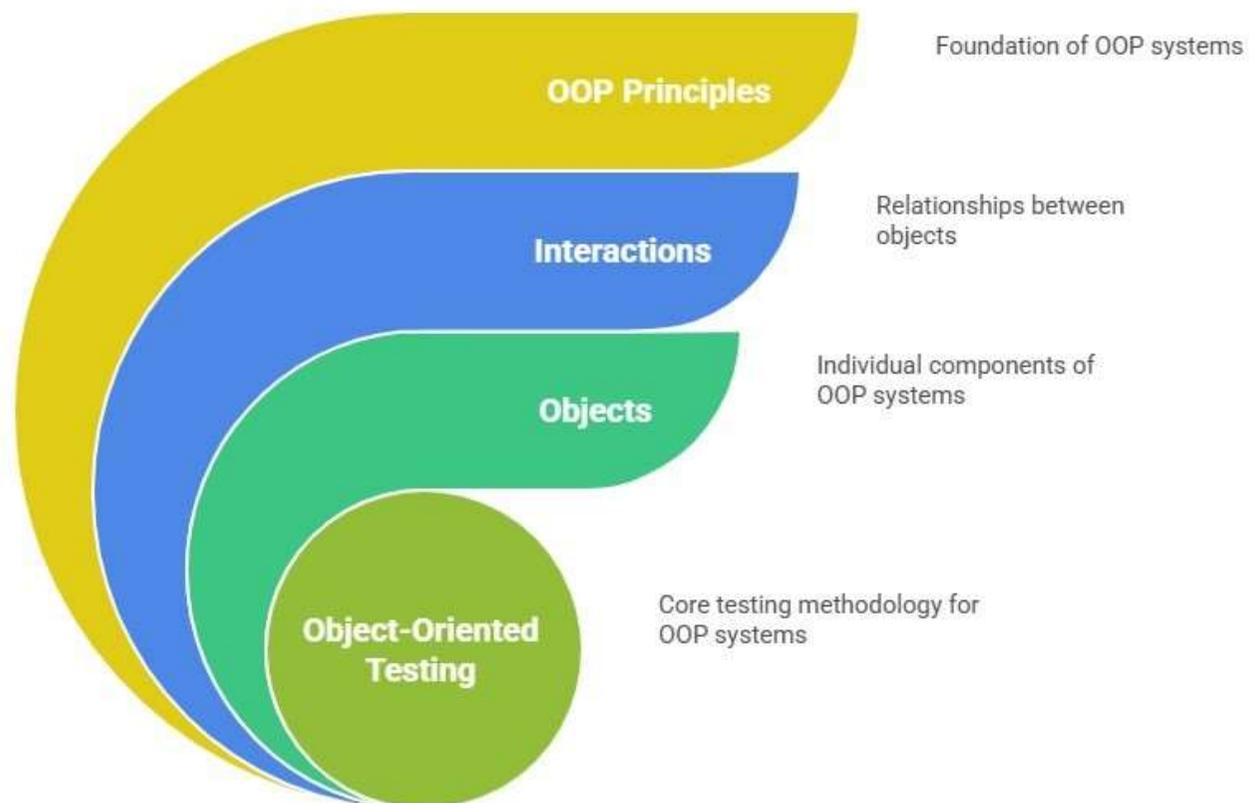
III YEAR / VI SEMESTER

Unit 3 - LEVELS OF TESTING

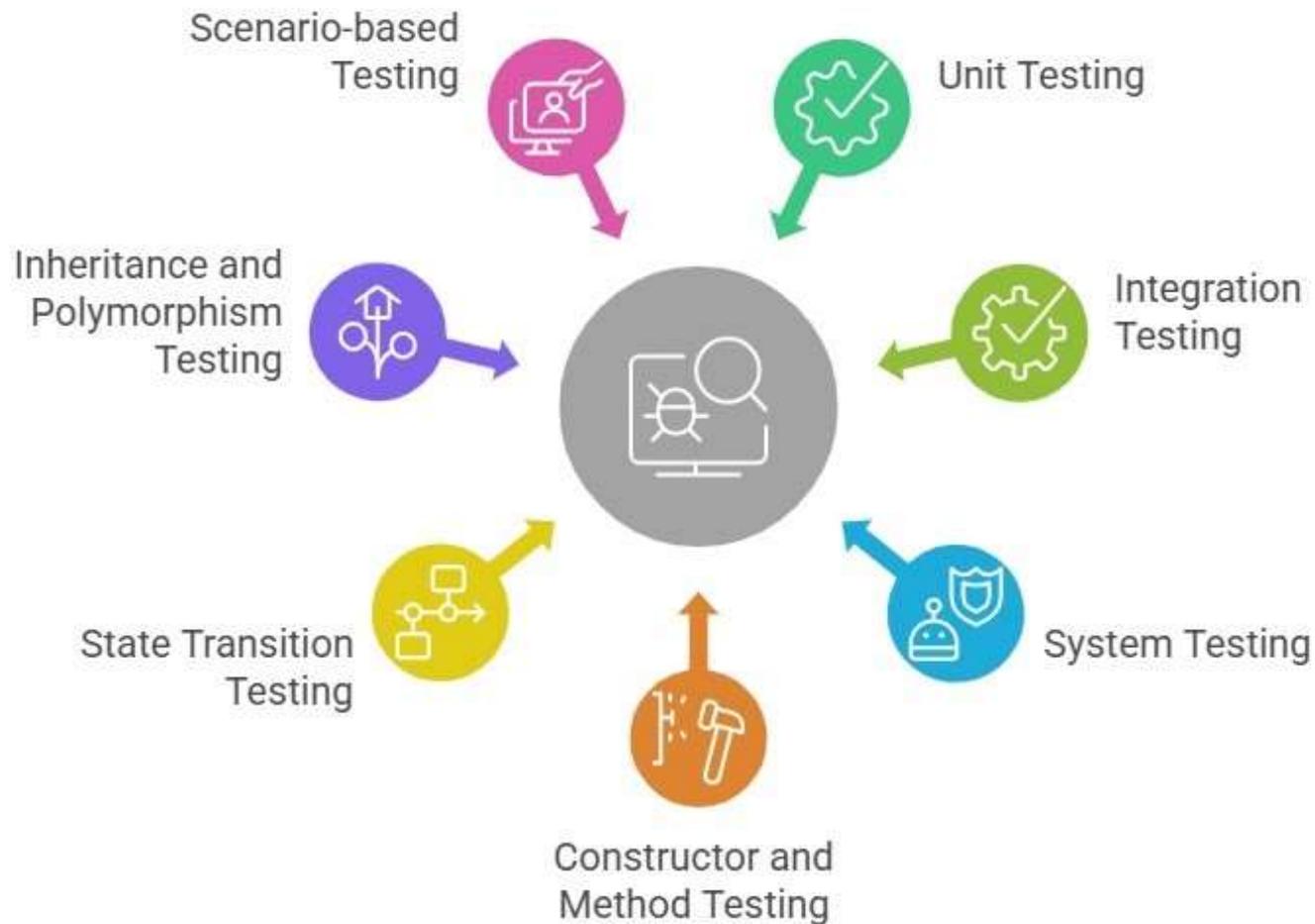
Topic : Testing OO systems, Usability and Accessibility testing

Empathy

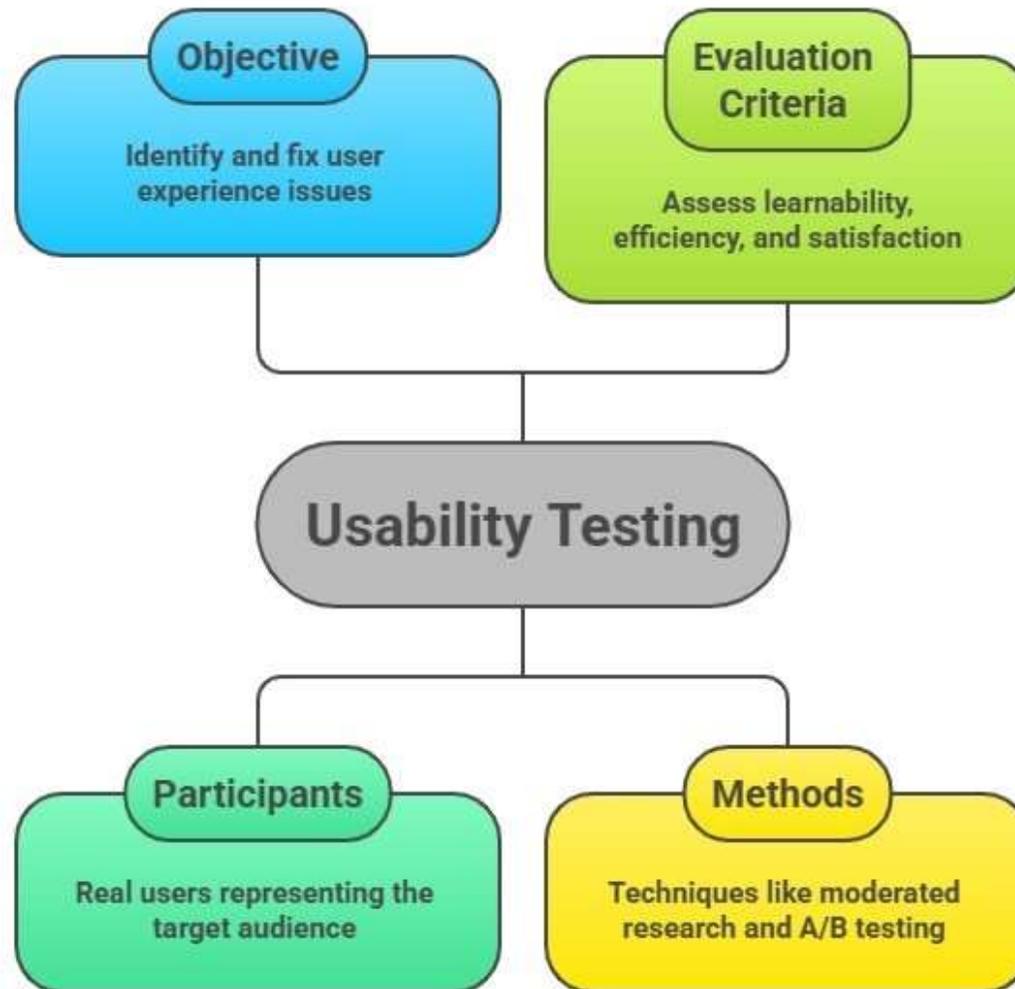
Object-Oriented Systems Testing



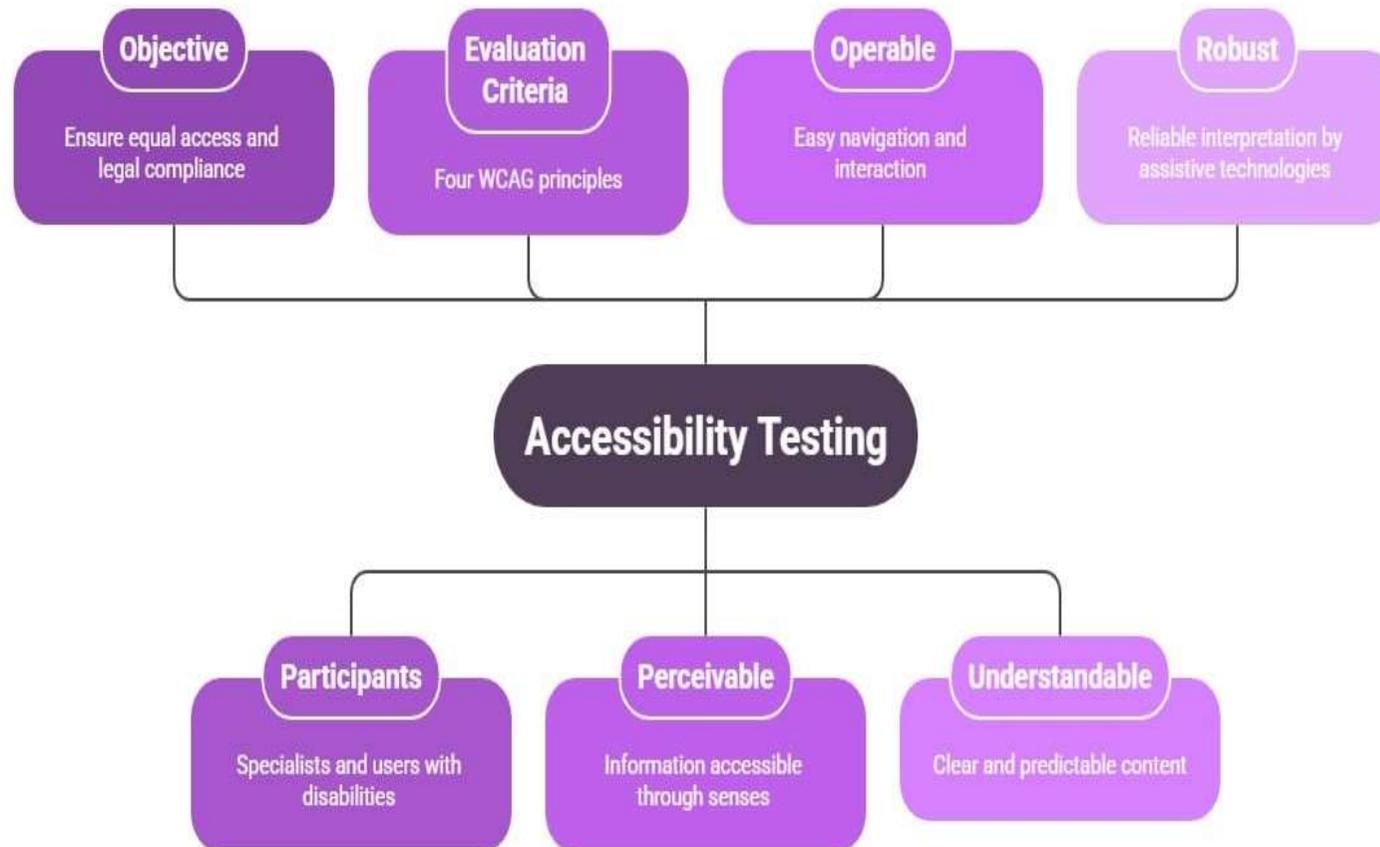
Approaches to Testing Object-Oriented Systems



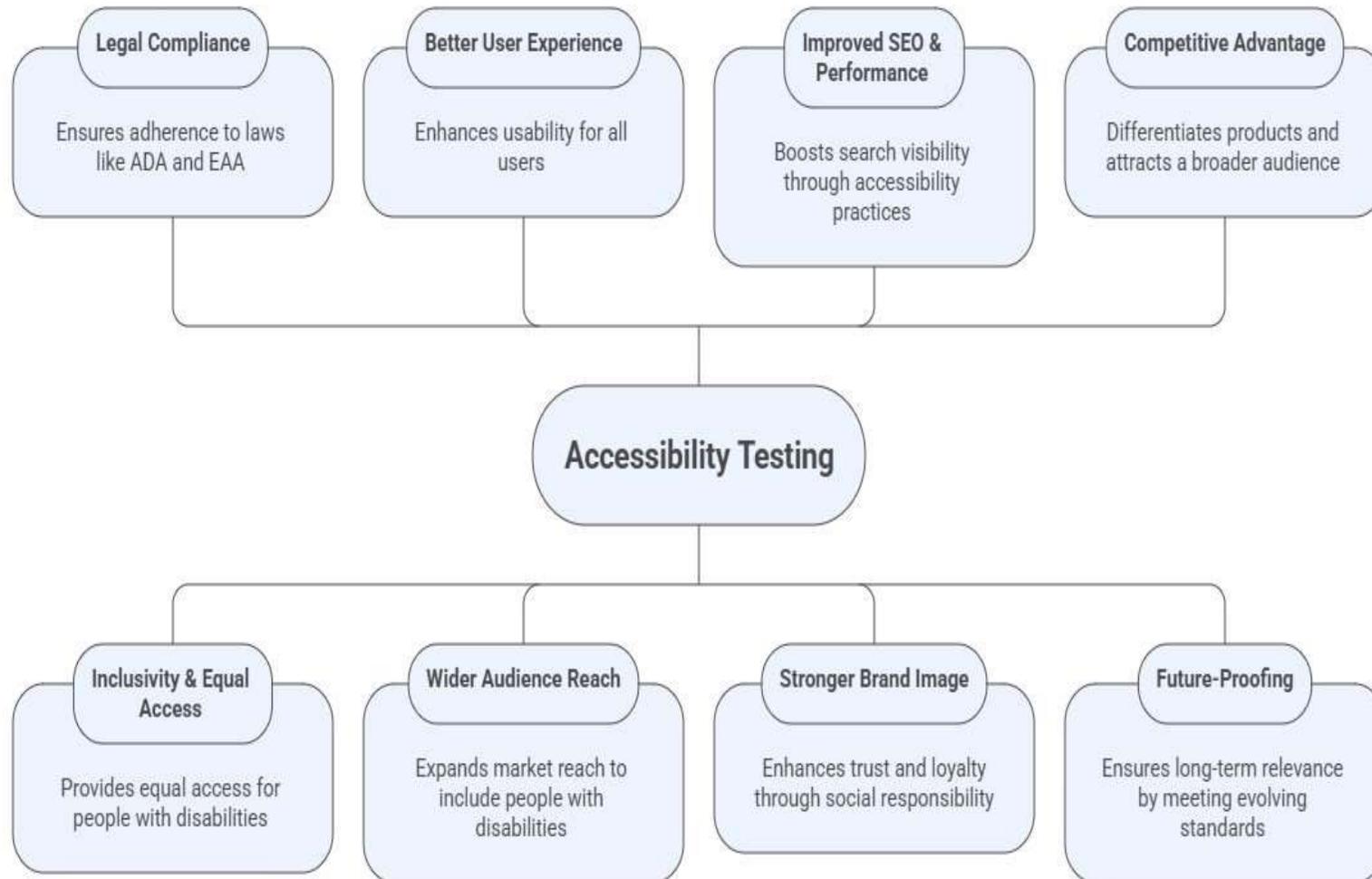
Comprehensive Usability Testing Overview



Comprehensive Accessibility Testing

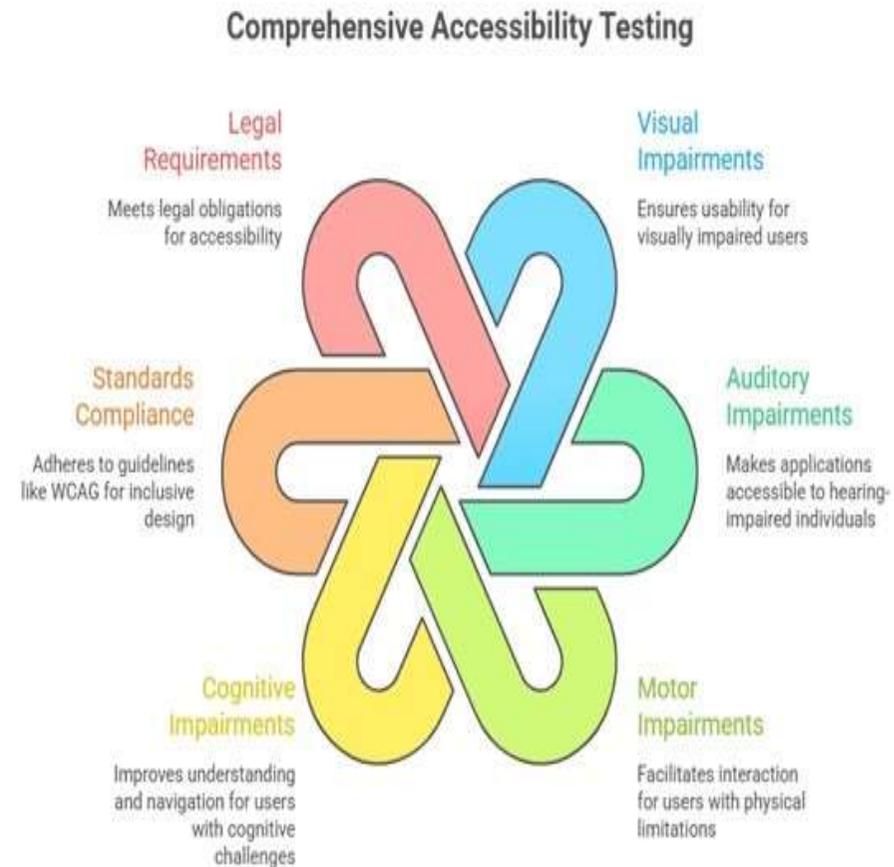


The Crucial Role of Accessibility Testing



Accessibility Testing is a crucial part of software quality assurance that ensures digital applications are usable by everyone, including people with visual, auditory, motor, or cognitive disabilities.

It focuses on verifying compliance with standards like World Wide Web Consortium's Web Content Accessibility Guidelines to create inclusive and legally compliant digital experiences



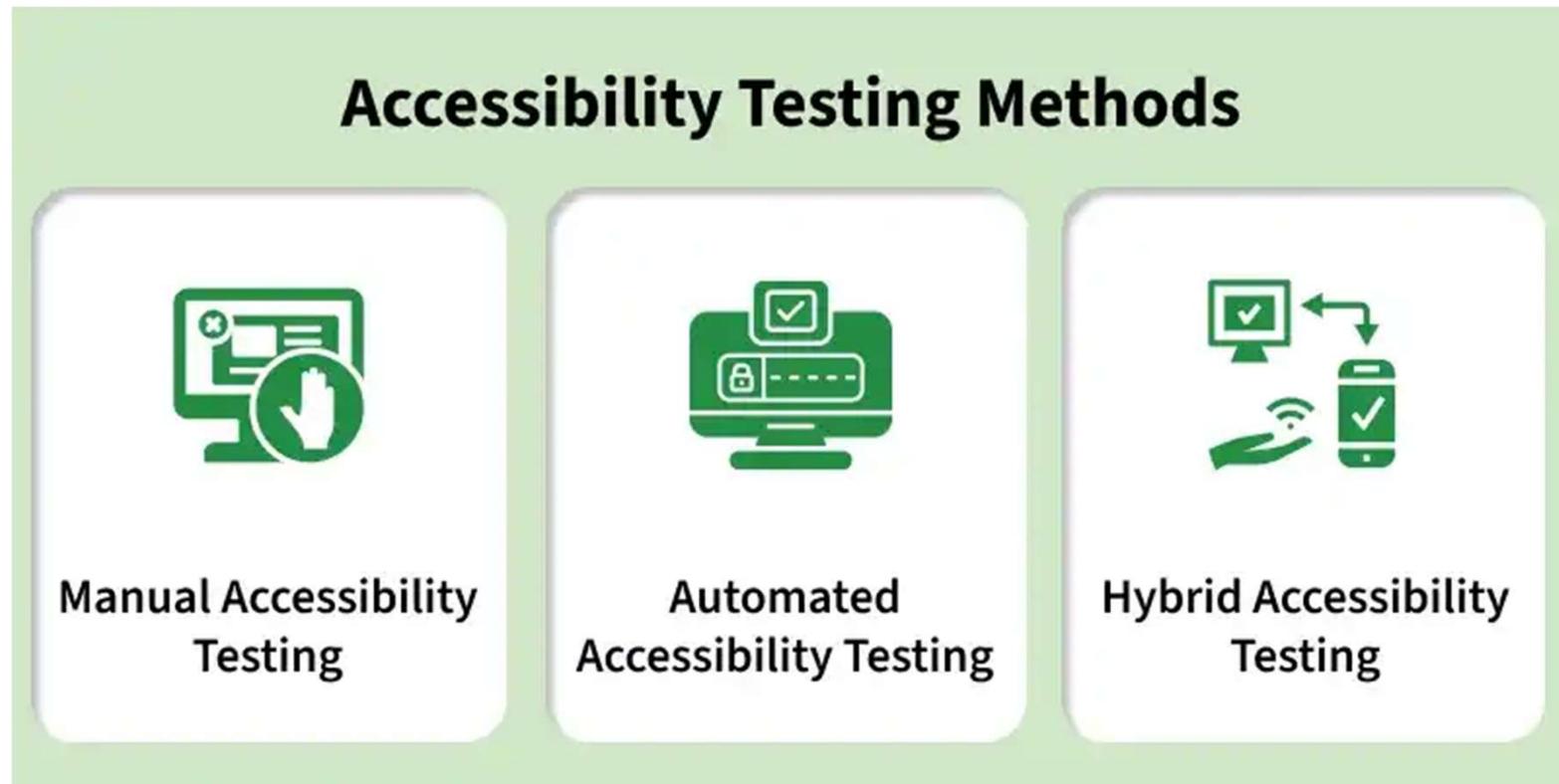
Accessibility Testing Methods

Accessibility Testing can be performed in 3 ways:

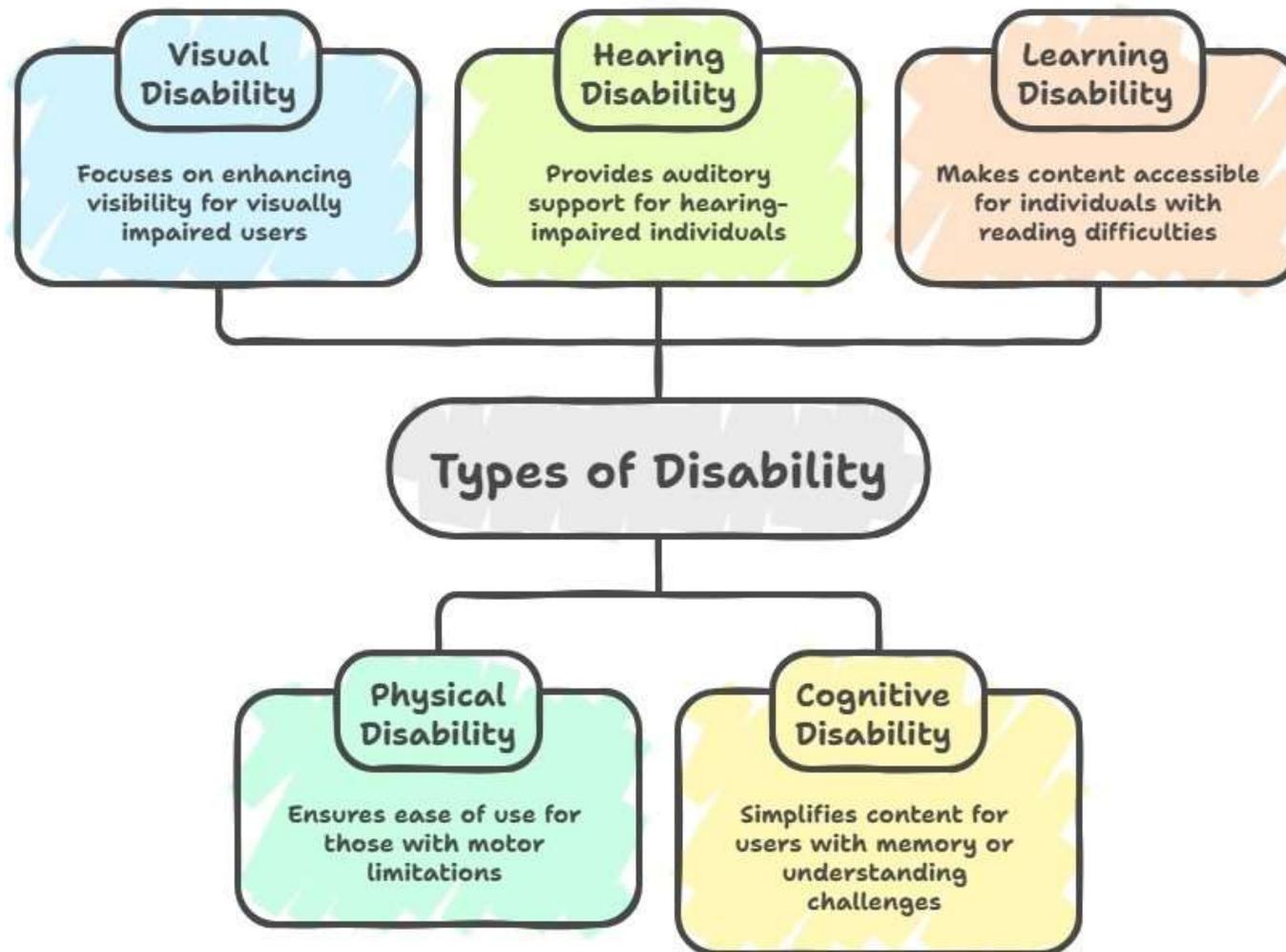
1. Manual Accessibility Testing

2. Automated Accessibility Testing

3. Hybrid Accessibility Testing



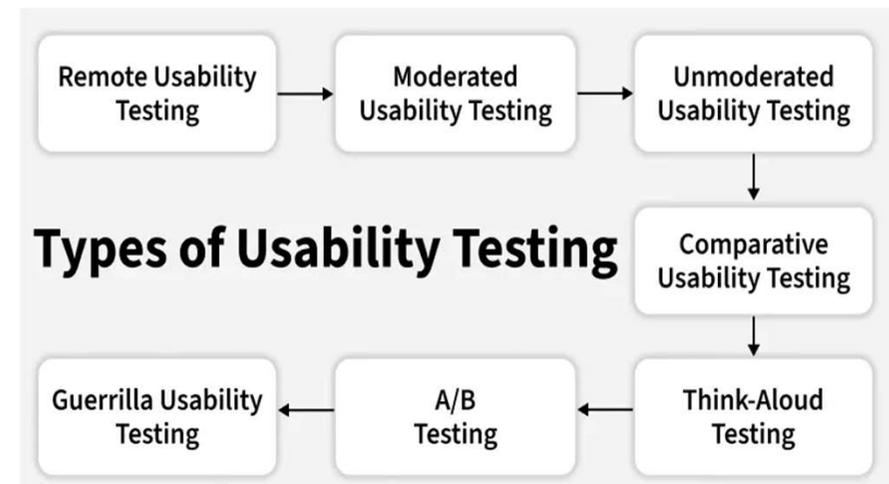
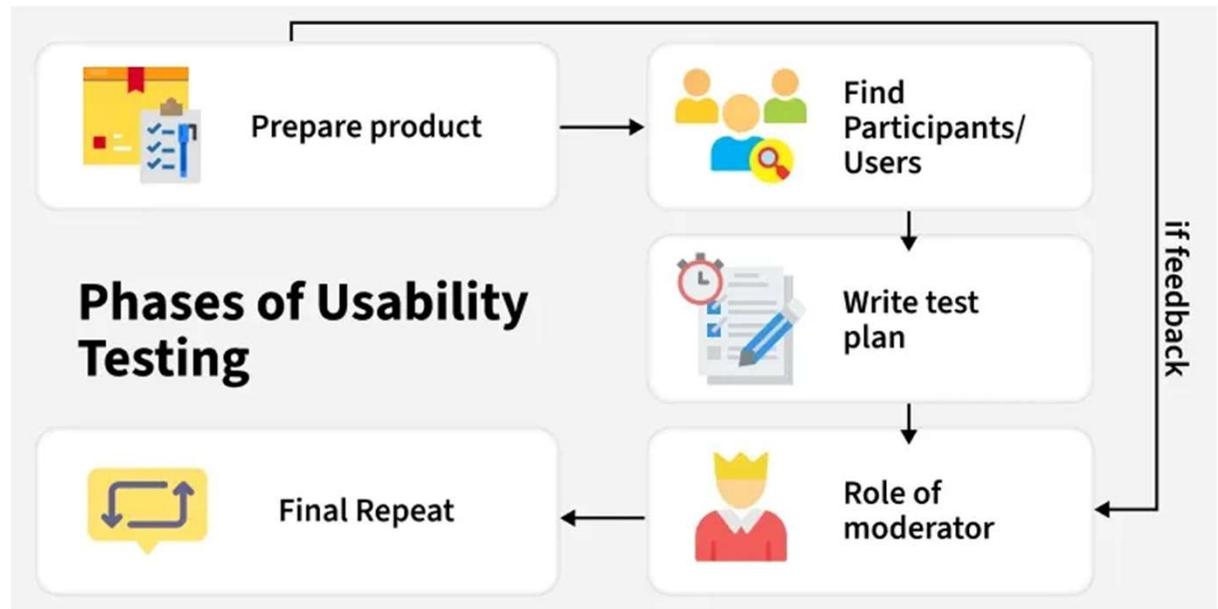
Comprehensive Disability Overview



Unveiling the Multifaceted Benefits of Accessibility Testing



Usability testing is a method used to assess how easily real users can navigate and interact with a website, app, or digital product. It helps identify pain points, measure task success, and improve the overall user experience.



Activity

Testing OO Systems (Object-Oriented Systems)

Activity Example

Activity Title: Testing Object-Oriented Components

Steps:

1. Identify classes and objects in the system.
2. Test class methods and attributes.
3. Perform integration testing between objects.
4. Verify inheritance and polymorphism behavior.
5. Analyze results and fix defects.

Learning Outcome:

Students understand how object-oriented components interact and are tested.

MCQ

MCQ – Testing OO Systems

1. What is the main focus of testing Object-Oriented (OO) systems?

- A) Testing hardware components
- B) Testing classes, objects, and their interactions
- C) Testing only user interface
- D) Testing network performance

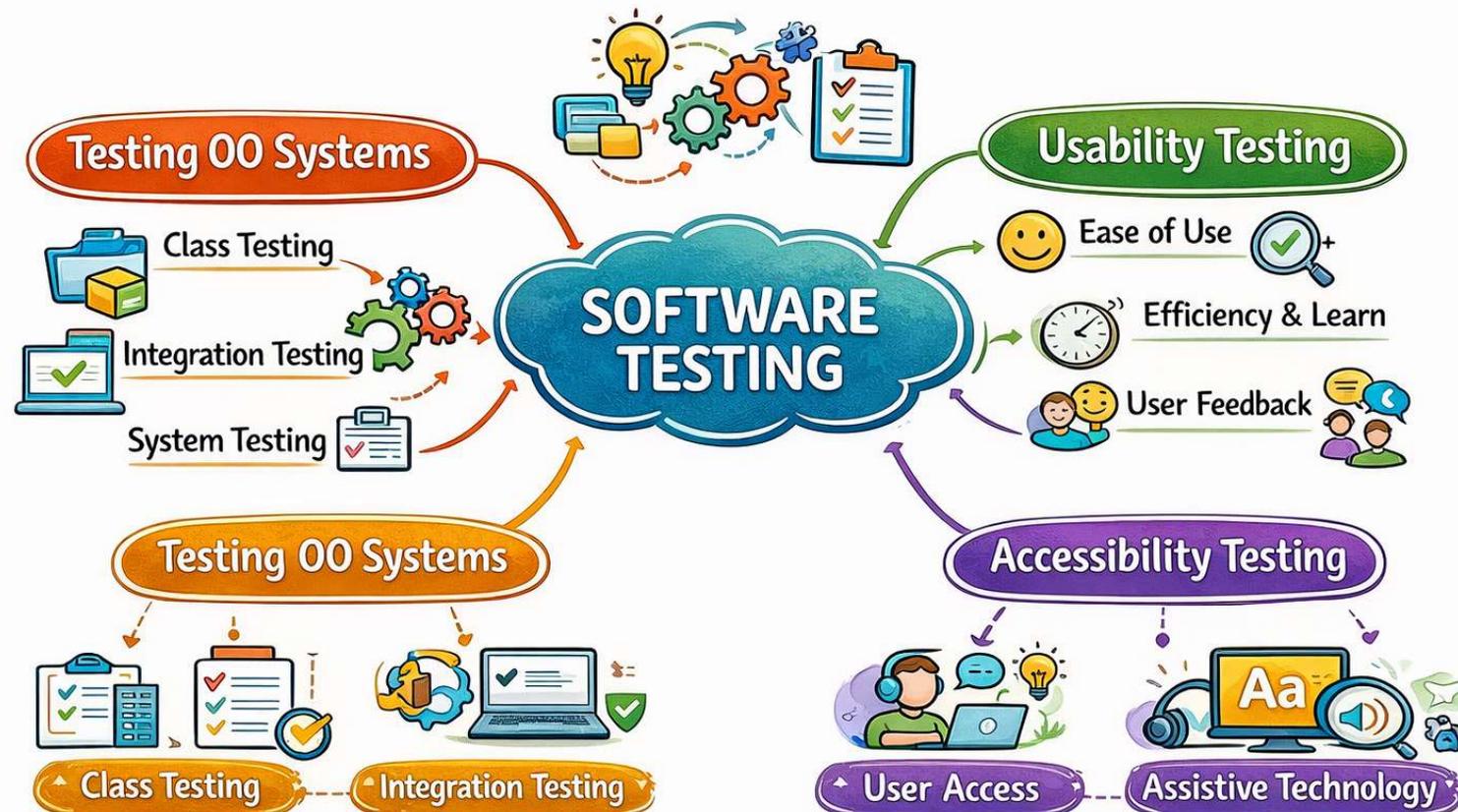
Answer: B) Testing classes, objects, and their interactions

2. Which feature of Object-Oriented programming must be tested in OO systems?

- A) Polymorphism
- B) Compilation
- C) Formatting
- D) Printing

Answer: A) Polymorphism

Mind Map



TEXT BOOKS	
1.	Srinivasan Desikan and Gopalaswamy Ramesh, —Software Testing – Principles and Practices, Pearson Education, 2006.
REFERENCES	
1.	Ilene Burnstein, —Practical Software Testing, Springer International Edition, 2003
2.	Edward Kit, Software Testing in the Real World – Improving the Process , Pearson Education, 1995
3.	Boris Beizer, Software Testing Techniques – 2nd Edition, Van Nostrand Reinhold, New York, 1990.
4.	Aditya P. Mathur, —Foundations of Software Testing _ Fundamental Algorithms and Techniques, Dorling Kindersley (India) Pvt. Ltd., Pearson Education, 2008.



Thank You

