



TOPIC

Identify
proper use of
when and
how to apply
abstract
classes

Introduction

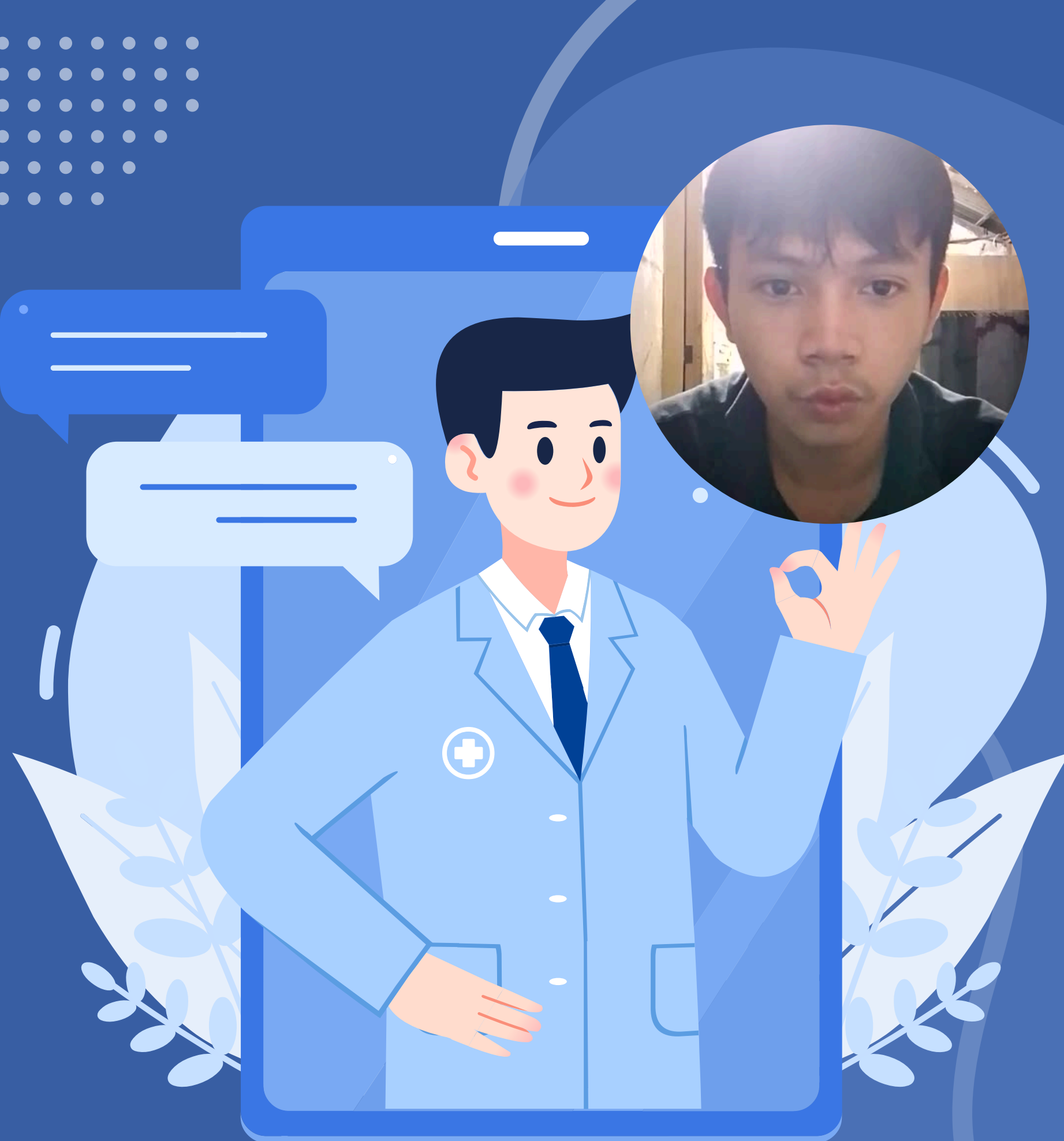
I. Introduction to Abstract Classes

A. Definition of abstract classes

B. Importance in object-oriented programming (OOP)

C. Overview of polymorphism and inheritance





II. When to Use Abstract Classes

A. Situations that warrant the use of abstract classes

1. Defining a common interface for a group of related classes

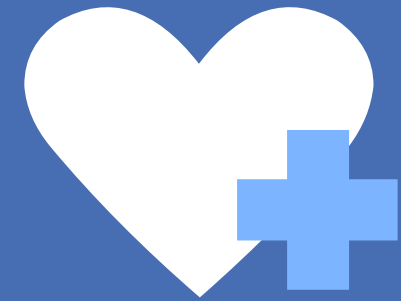
2. Providing a base class with default behavior

3. Enforcing a contract for derived classes

B. Examples of real-world scenarios for abstract classes

- III. How to Apply Abstract Classes
 - A. Syntax and structure of abstract classes
 - 1. Declaration of abstract classes
 - 2. Abstract methods vs. concrete methods
 - B. Creating derived classes
 - 1. Implementing abstract methods
 - 2. Overriding behavior in derived classes





IV. Best Practices for Using Abstract Classes

- A. Guidelines for designing abstract classes
- B. Common pitfalls to avoid
- C. When to prefer interfaces over abstract classes



V. Conclusion

- A. Recap of the importance of abstract classes
- B. Encouragement to practice implementing abstract classes in coding projects

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THANK YOU ♥ +

