



# Introduction to Testing: An Essential Guide

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# Introduction

Software testing is the process of evaluating a software application to uncover bugs, verify it meets requirements, and ensure it functions as expected. It's a crucial part of the software development lifecycle (SDLC) that helps deliver high-quality and reliable software.



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# Importance of Testing

- Protects users from encountering errors and bugs in the software
- Reduces the risk of software failures that can lead to financial losses
- Improves software quality and reliability
- Enhances user experience by ensuring software functions as intended
- Helps identify and fix defects early in the development process, saving time and resources



# Types of Testing

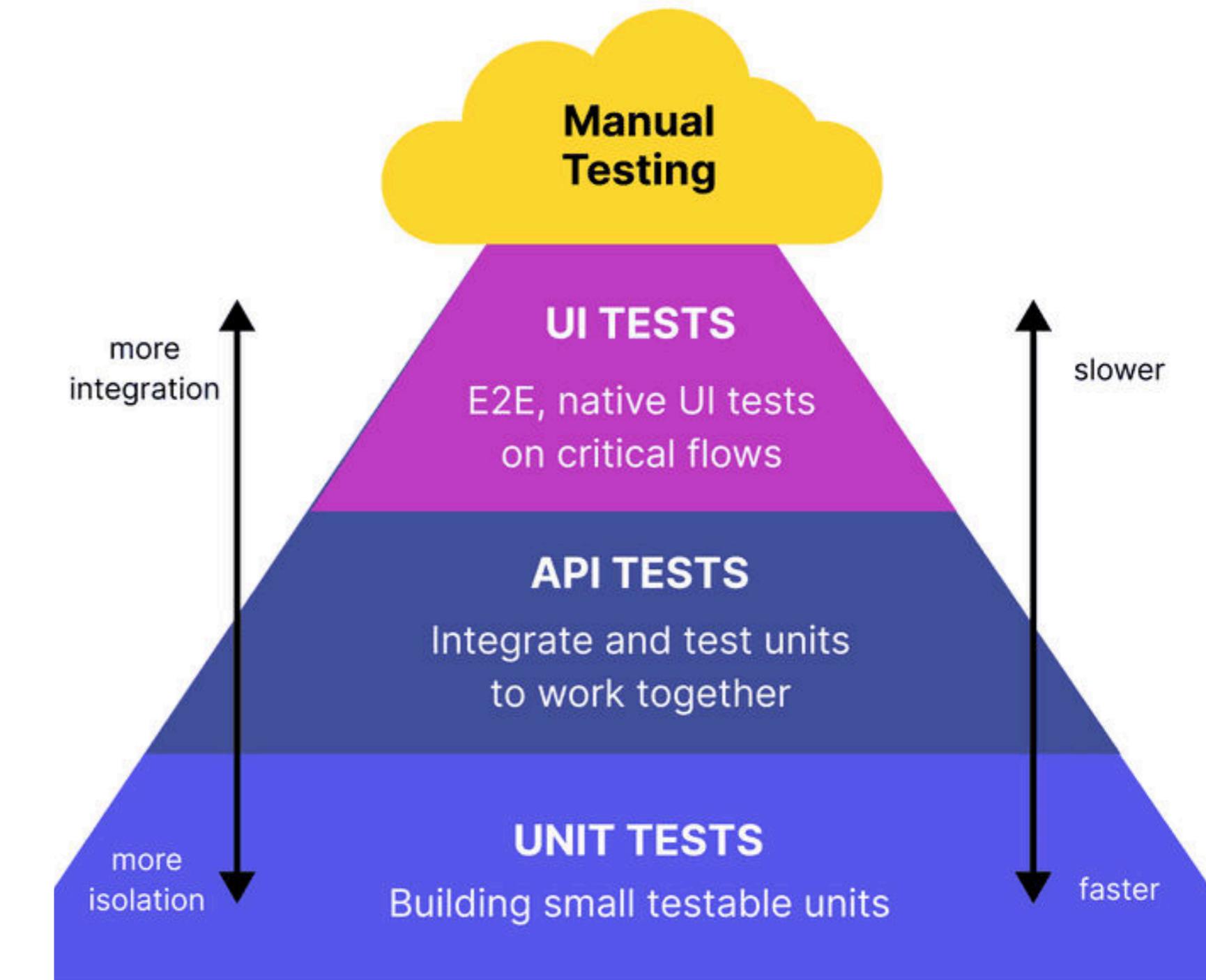
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- **Functional Test:** Functional testing assesses whether the software fulfills its intended requirements and functionalities.
- **Non-Functional Test:** Non-functional testing evaluates aspects beyond core functionalities, such as performance, usability, security, and compatibility.



# Functional Testing

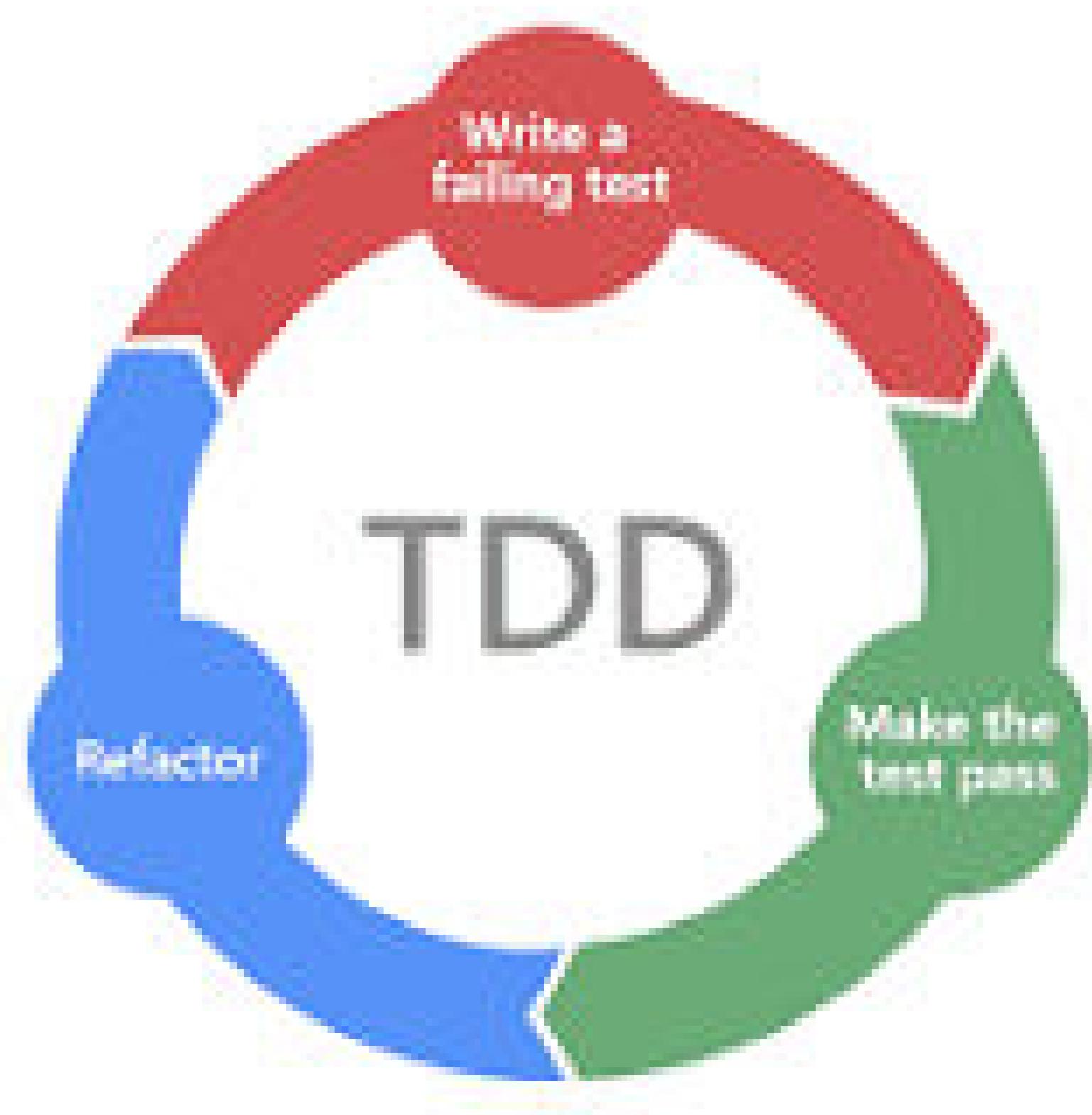
- Unit Tests
- Integration Tests
- End - to - end Test



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# Test Driven Development

Test-Driven Development (TDD) is a software development approach where tests are written before the actual production code. This technique emphasizes writing failing tests first, then implementing the minimal amount of code necessary to make those tests pass.



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**Lets code!**

**<https://github.com/seunboy1/Testing>**

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# Thanks!

*Do you have any questions?*

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