WHAT IS **SOFTWARE**

TESTING

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In 1994 in Scotland, it is suspected that a Software Error had crashed the Chinook helicopter killing all 29 passengers

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It could have been prevented if the software functioned properly

...f Kintyre Chinook ... crash

576, the aircraft involved in th the accident in 1987

Accident	
e	2 June 1994
mary	Crashed in f..n fog. Disputed: Pilot error l..r leading to CFIT or mechanic..ical failure (FADEC softwar..are error).
	Mull ..ll of Kintyre, Scotland 55°18'49"N 5°47'42"W

Source: Wikipedia

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There are many other Software bugs
that caused loss of lives and money

That is why it is important to test
the softwares before production

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Software testing is the process of **evaluating** & **verifying** that a software application does what it is supposed to do

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Testing can be categorized based on different criteria
Manual Testing
Automated Testing
The tester takes over the role of an end-user & tests the software manually to identify any unexpected behavior
The tester writes scripts & uses another software to test the productquickly and repeatedly
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Software Testing Techniques

Internals not known
Testing as user

Internals fully known
Testing as developer

Internals relevant to testing known
Testing as user with access to internals

Black Box Testing

Grey Box Testing

White Box Testing

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It is also categorized into two based on validating the business requirements for the application

Functional Testing

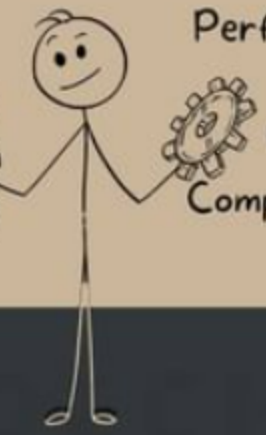
Testing the behavior of the software

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

Non-Functional Testing

Testing the reliablity, usability & performance

- Performance Testing
- Security Testing
- Usability Testing
- Compatability Testing



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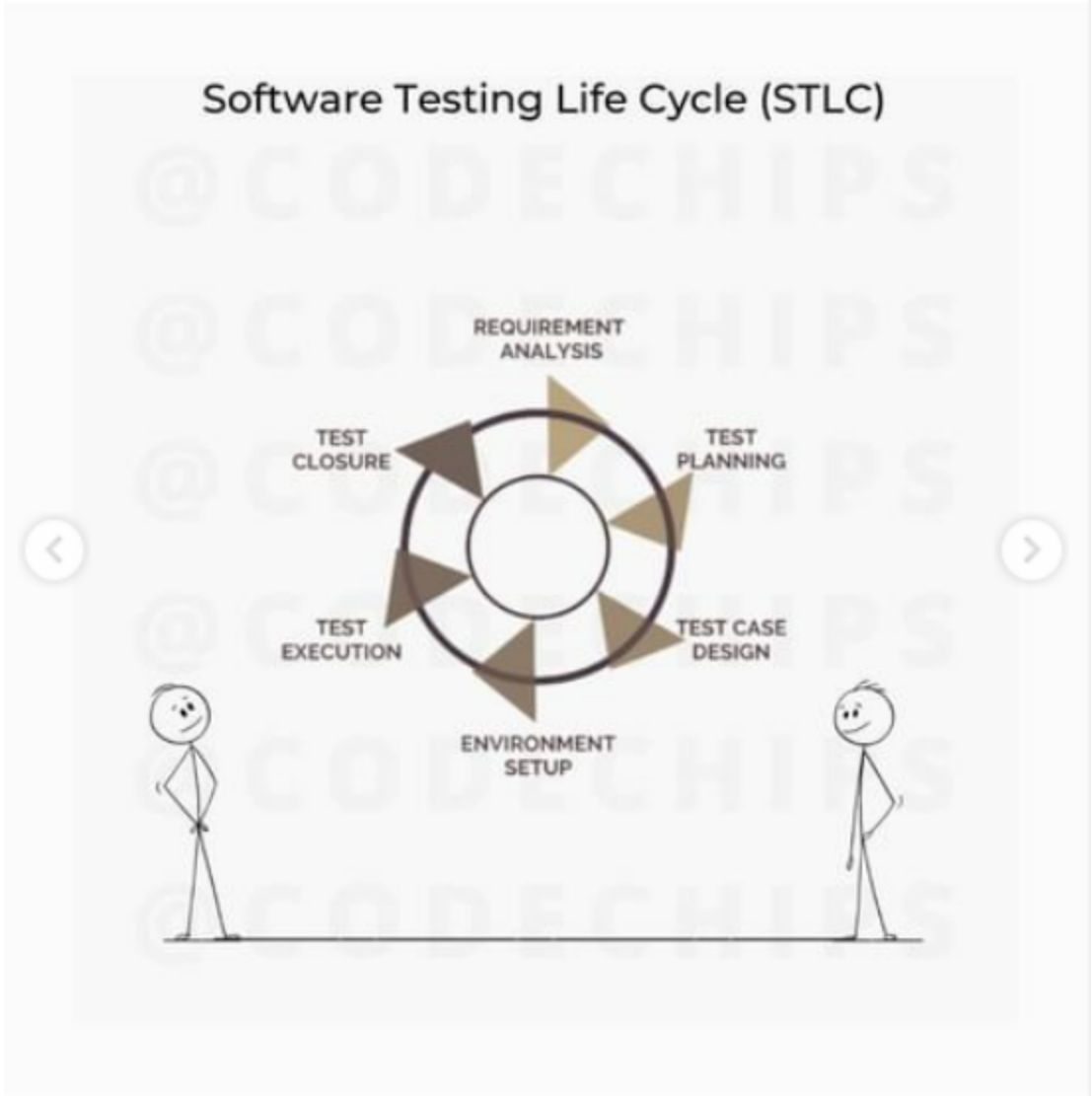

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