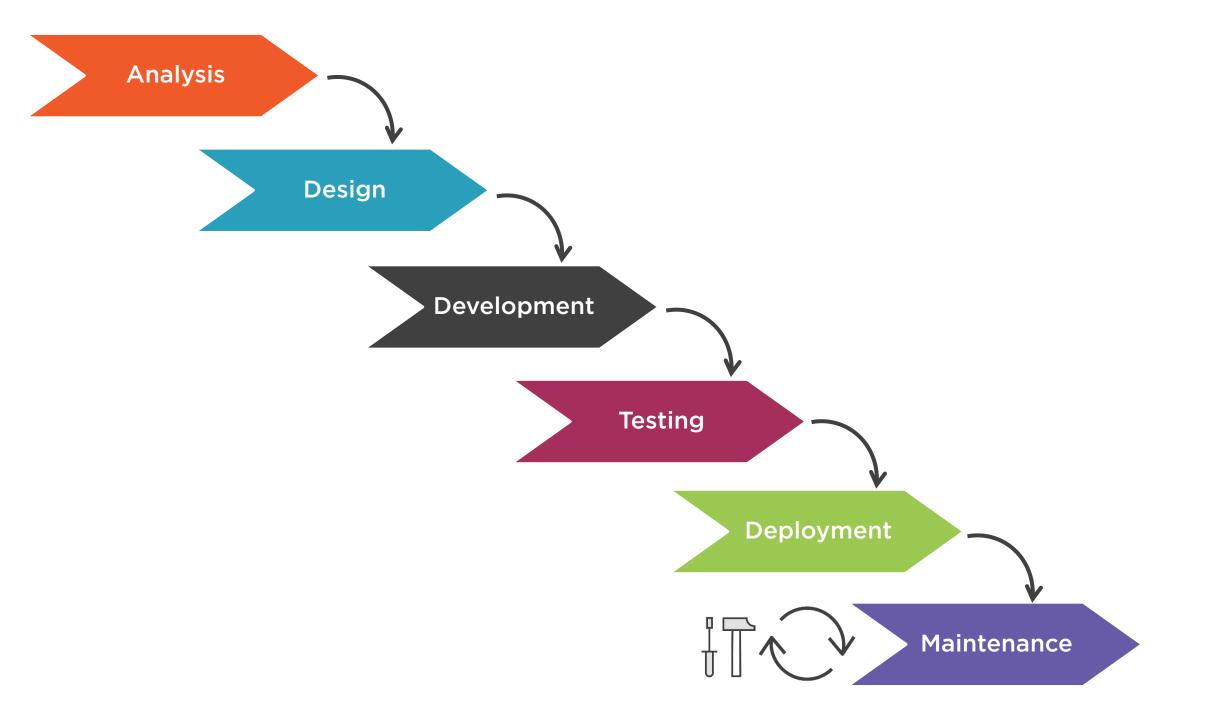
Exploring Maintenance Testing





Overview



Kind of maintenance

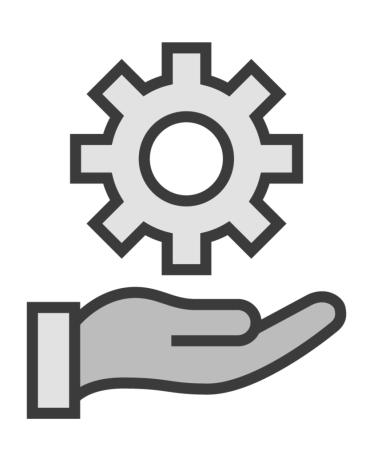
Triggers for maintenance testing

Impact analysis

Course wrap up

Systems need to be maintained because changes are inevitable.

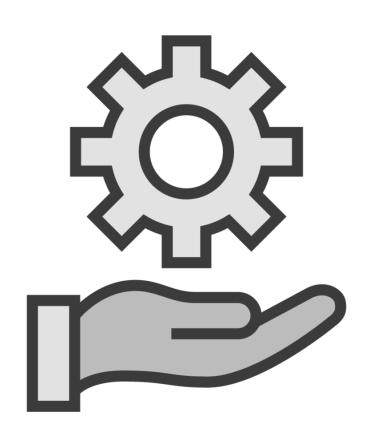
Change Categories



Unplanned

- Bugs or failures in production
- A "hotfix" required

Change Categories



Planned

- Software enhancements
- Operational and environmental upgrades
 - Example: SQL Server migration to a newer version
- Retirement
 - SW not fit for purpose anymore
 - Rewriting the SW using newer tech

Impact Analysis

Evaluates the changes made to identify consequences and potential side-effects

Impact Analysis

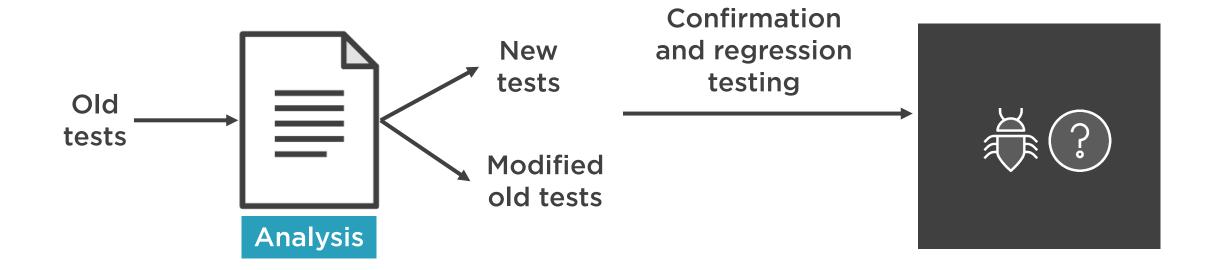


What has changed?

Where in the system?

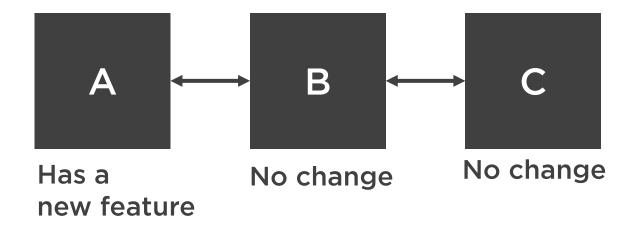
Which parts are definitely affected?

Which parts are likely to be affected?





I need to test this, but I only have 2 days...



Prioritize:

- 1) Test Module A (the new feature)
- 2) In the past 2 months:
 - Module B had 10 bugs ← Focus here!
 - Module C had 2 bugs
- 3) Test Module C if you have spare time

Impact Analysis Challenges



Outdated specifications

Lack of knowledge

Outdated test cases with no traceability

Weak or non-existent tool support

Summary



SDLC: Software Development Lifecycle

Multiple models exist - sequential and iterative

Systems are layered

Levels: unit, integration, system, acceptance

Types: functional, non-functional, black-box, white-box, etc.

Testing never stops - maintenance testing is a must