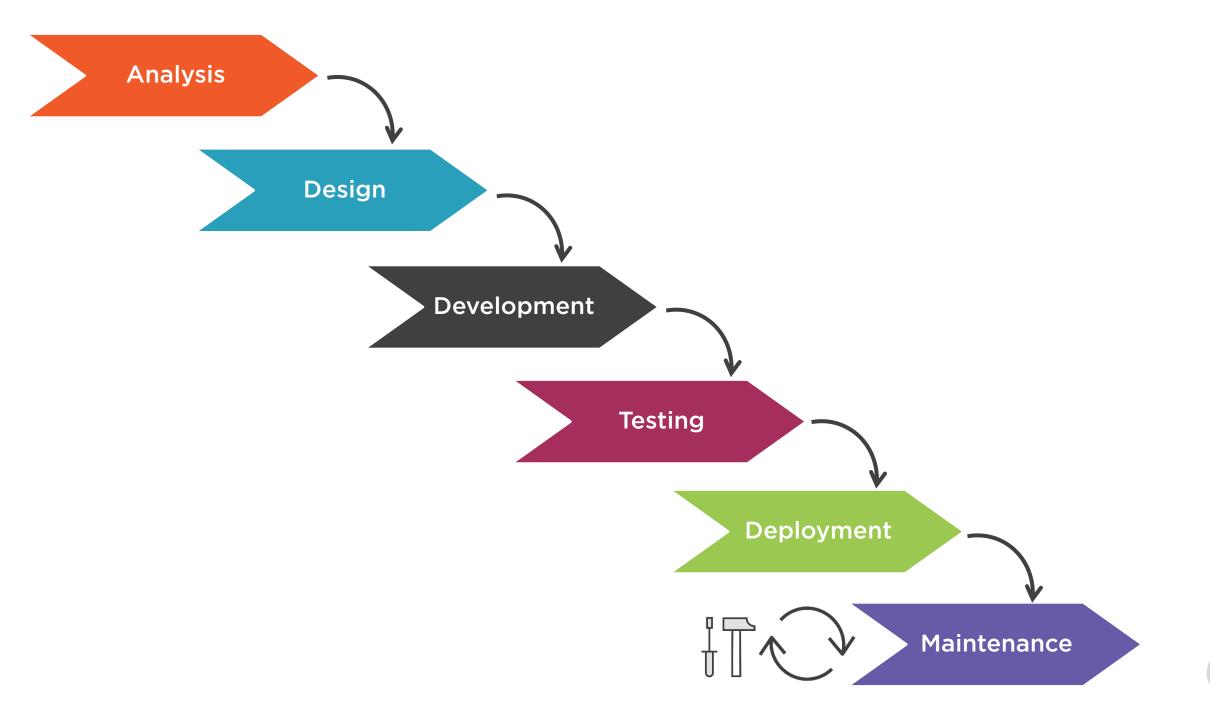
Exploring Maintenance Testing



Andrejs Doronins
TEST AUTOMATION ENGINEER







Overview



Kind of maintenance

Triggers for maintenance testing

Impact analysis

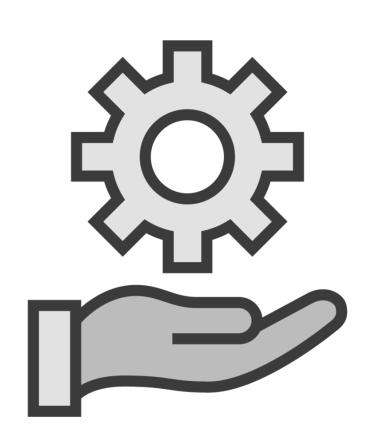
Course wrap up



Systems need to be maintained because changes are inevitable.



Change Categories

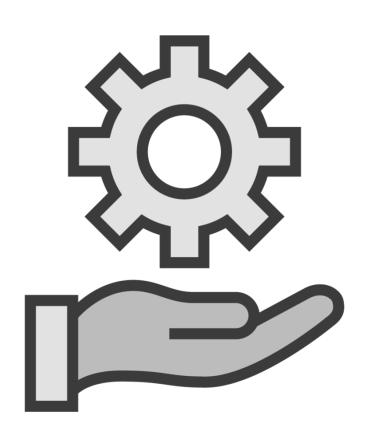


Unplanned

- 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



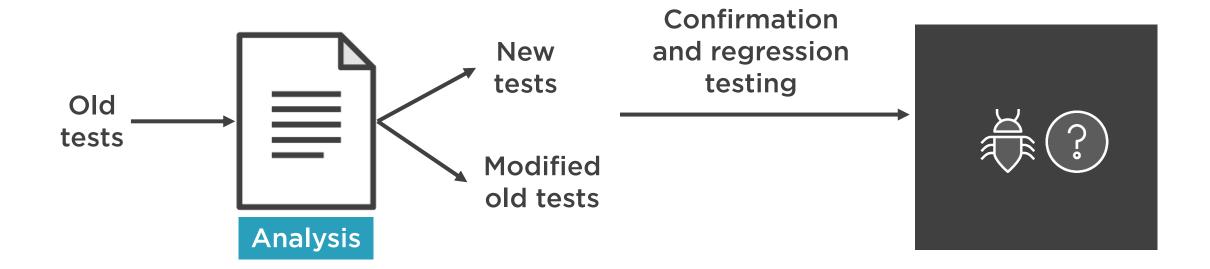
What has changed?

Where in the system?

Which parts are definitely affected?

Which parts are likely to be affected?

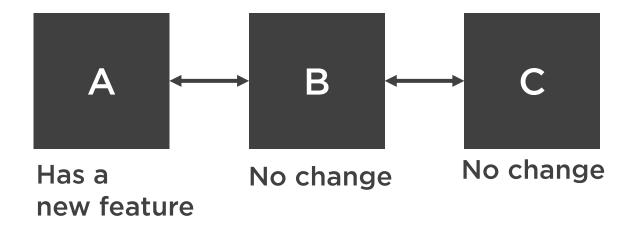








I need to test this, but I only have 2 days...



Prioritize:

- 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Outdated specifications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Outdated test cases with no traceability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



Rating







Thank you!

(Happy testing)



