

CMPUT 301

Lab 8: Continuous Integration and Test-driven Development

Table of Contents

- Continuous Integration (CI)
 - Motivation
 - What is CI?
 - GitHub Actions for CI
- Test-driven Development (TDD)
 - Motivation
 - What is TDD?

Continuous Integration: Motivation

- Have you ever implemented something, but broke it later and you didn't notice it?

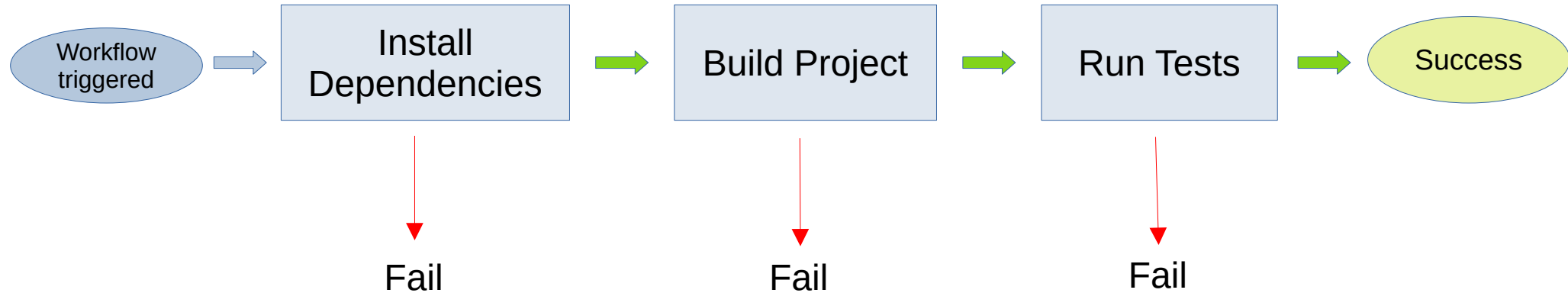
What is Continuous Integration (CI)?

- CI is a process where we automatically build, test, and analyze our software when we make changes to it

GitHub Actions for CI

- We can create CI workflows with GitHub Actions
- CI workflows can be triggered when a specific event occurs (i.e., push, pull request, etc.)

GitHub Actions for CI



Test-driven Development: Motivation

- Have you worked on a project and forgot to implement something?

Test-driven Development (TDD)

- Instead of writing tests later, we write the tests before we write the implementation of the feature

Test-driven Development (TDD)

