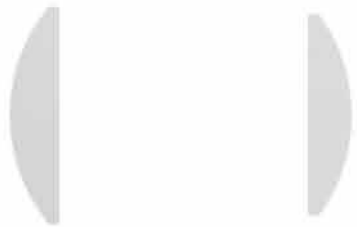


Building a Java Test Automation Framework from Scratch

SETTING UP AND CREATING A FRESH PROJECT

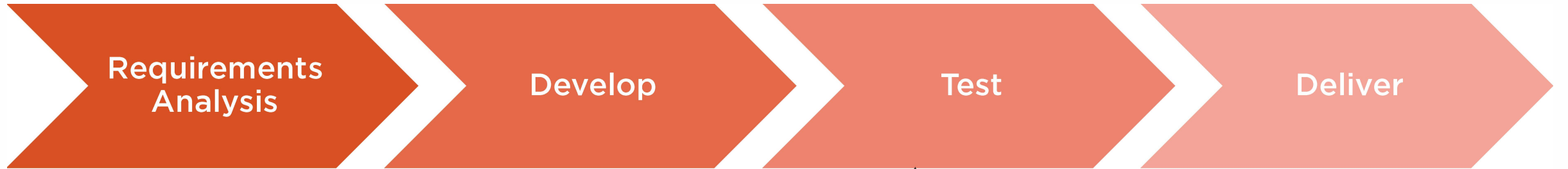




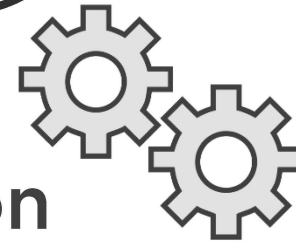
SDET

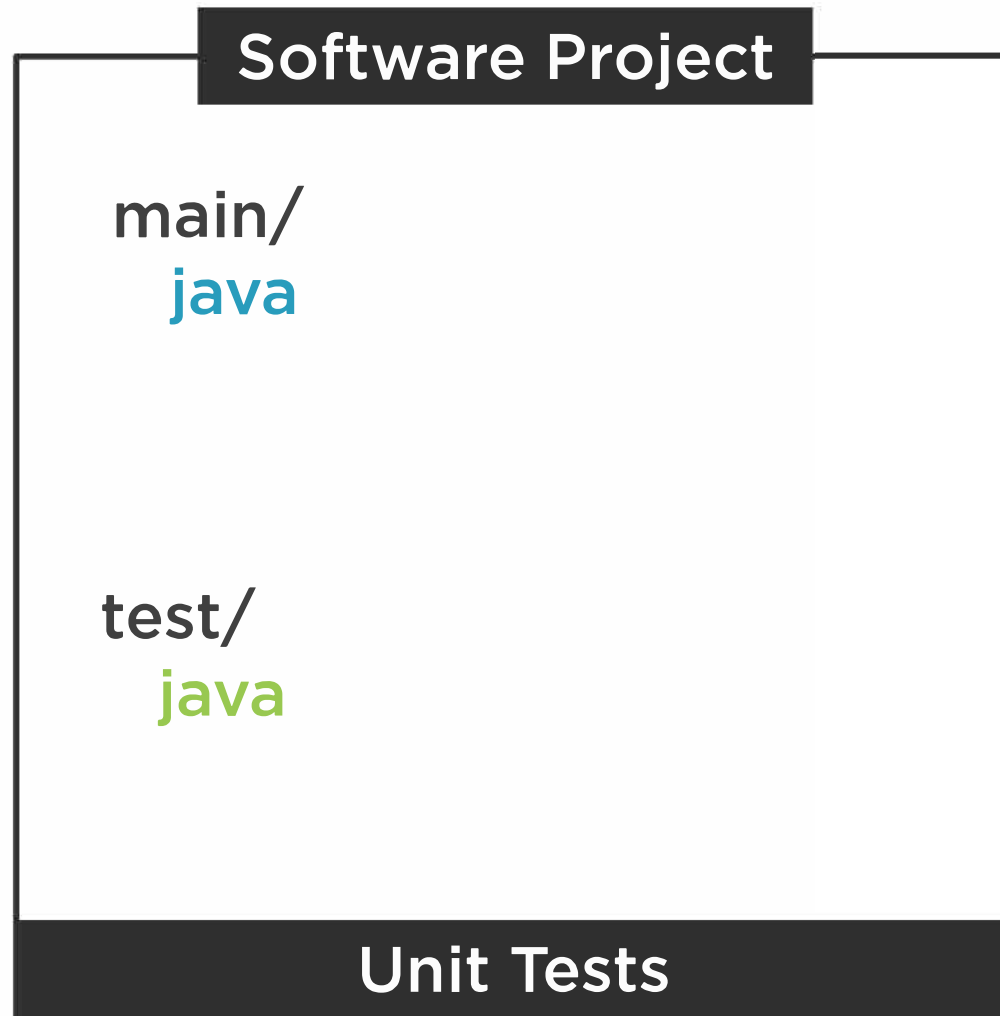
Software Development
Engineer in Test

a.k.a.
Test Automation Engineer



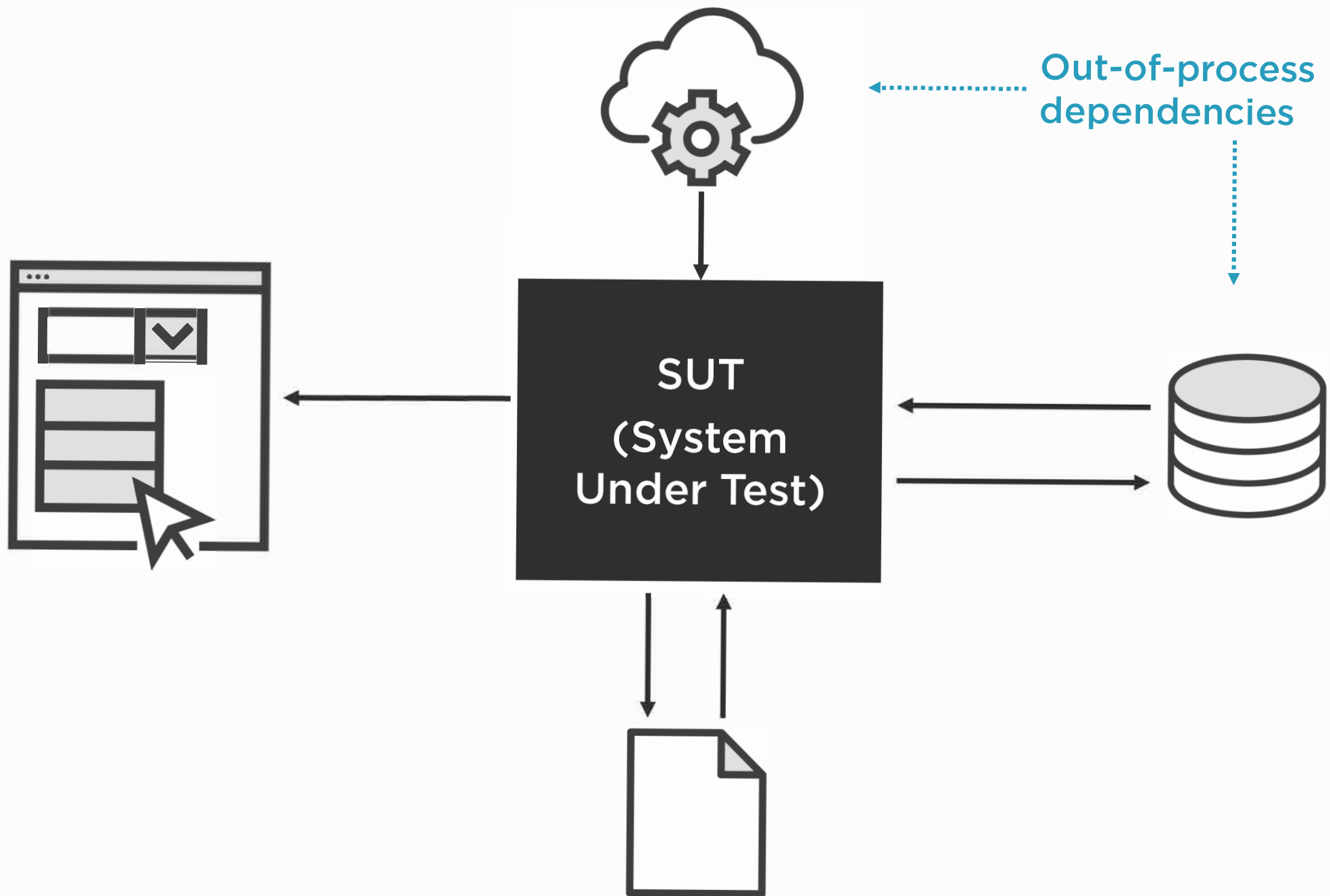
Test Automation

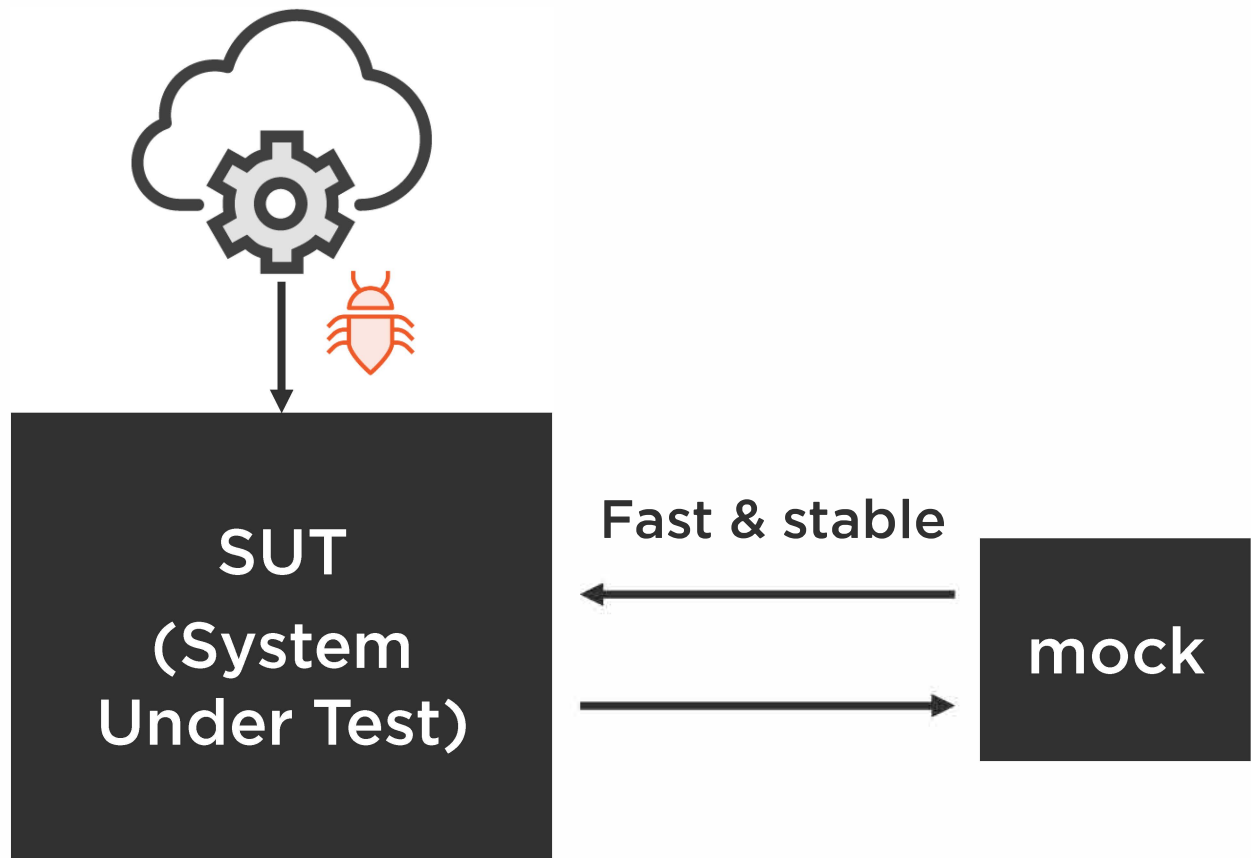




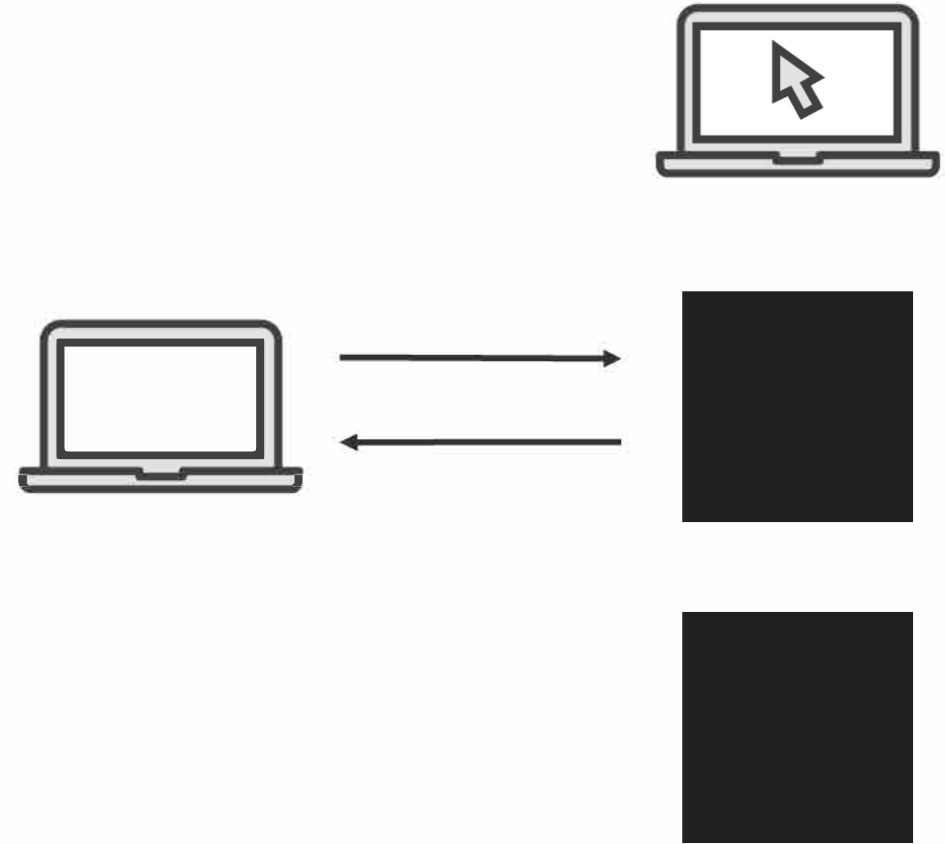
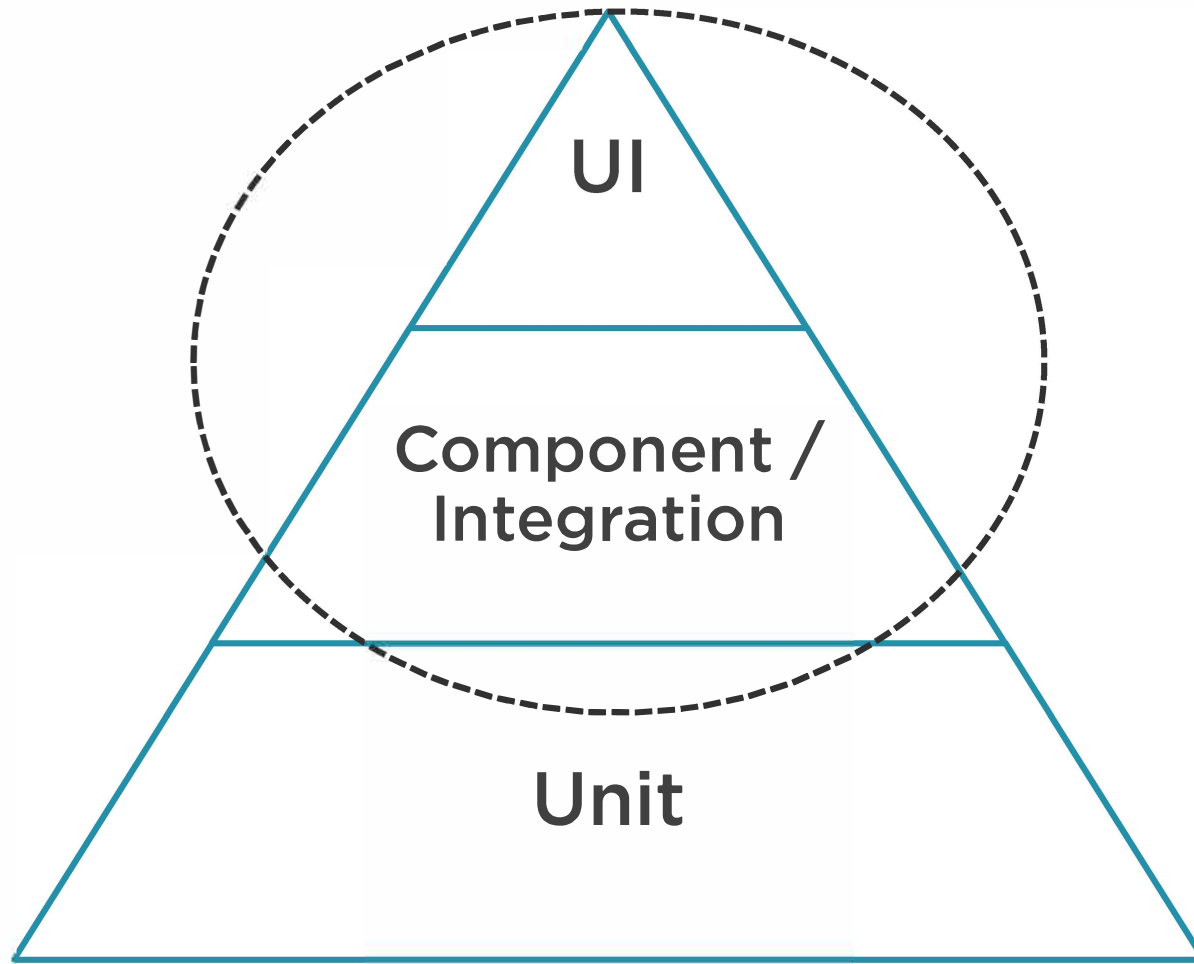
Good,
but not enough!







Testing Pyramid



Integration tests are complex
and require their own
supporting code



Software Project

main/
java

test/
java

support code
integration tests

Unit Tests



Software Project

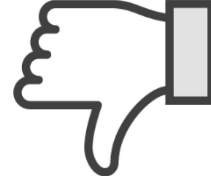
main/
java

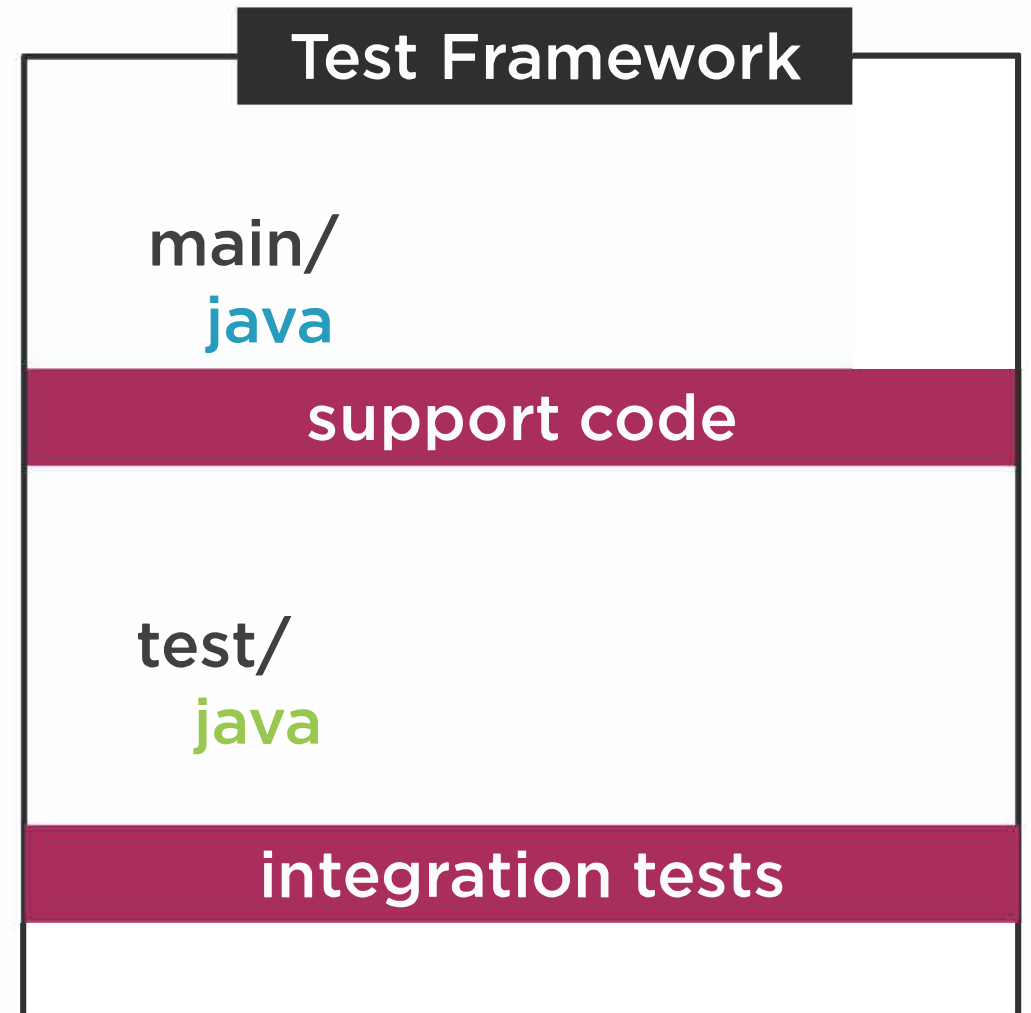
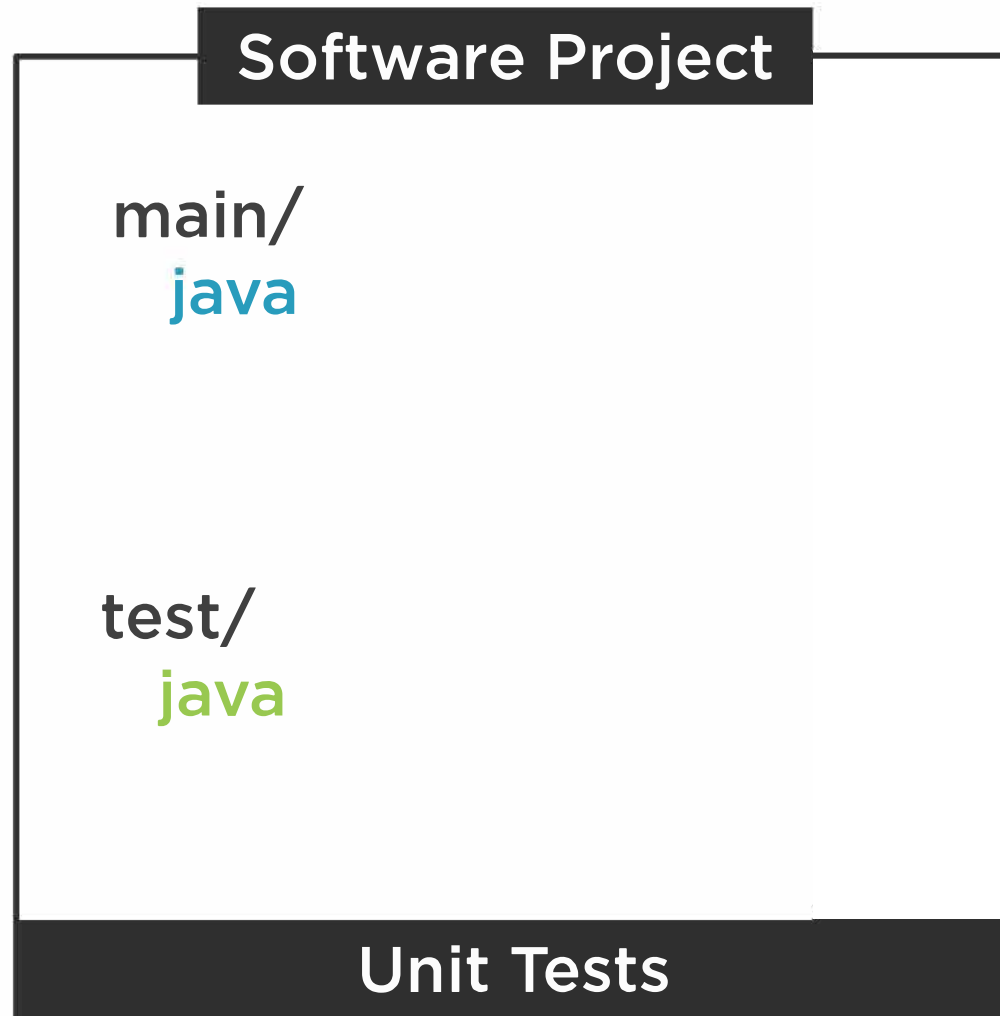
support code

test/
java

integration tests

Unit Tests



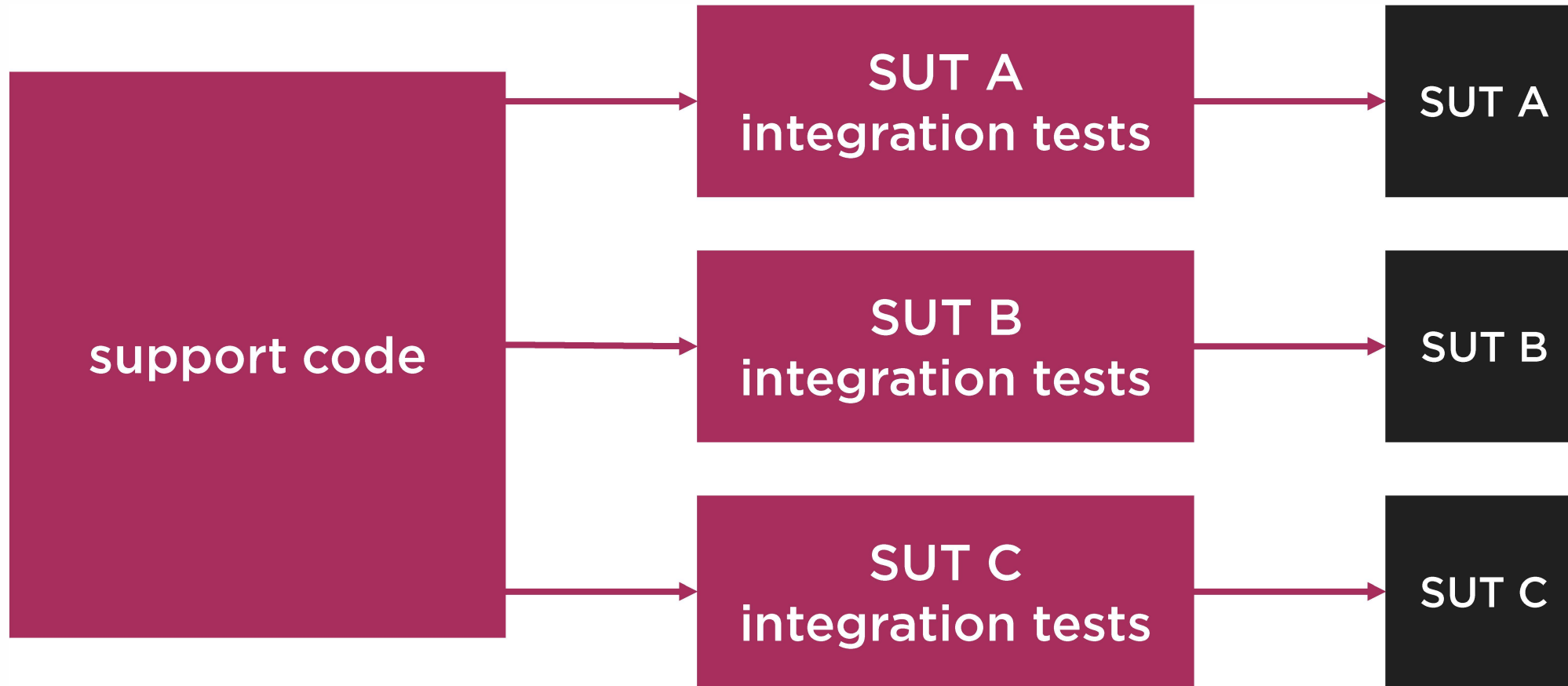


support code

SUT A
integration tests

SUT B
integration tests

SUT C
integration tests



Who This Course Is For



Manual Technical Tester



**Junior or mid-level
Developer**



SDET



You can code, right?

Great! Start a new
Test Framework for our
new App then!

Well, yes.



I have some experience,
yes

Uh, as in... from scratch?

I'm not sure I can, I've
never done it from the
ground up...



I can build a Java
Test Automation Framework
from scratch!

What This Course Doesn't Do



Teach in-depth Selenium for UI tests

Teach in-depth Web API testing

Test Framework

Test Framework

**Multi-
module**

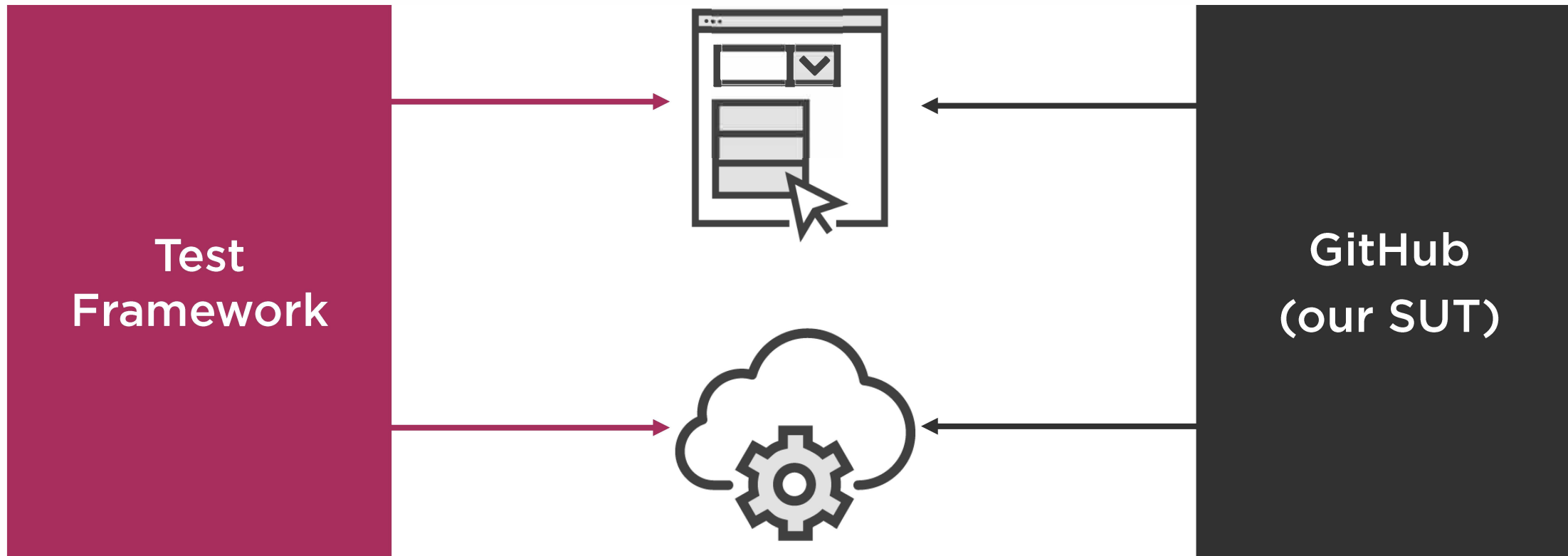
**Test
Framework**

**Your own
tech and
libraries**

UI Tests

**Web API
Tests**

**Your own
Tests**



Prerequisites

You should already know:

- Syntax, looping, branching
- OOP basics: classes, constructors, methods

You have Java installed

Desirable: HTML basics (for UI tests)

Desirable: any IDE (we'll use IntelliJ)



SETUP

Choosing Your First Dependency

JUnit

Vs.

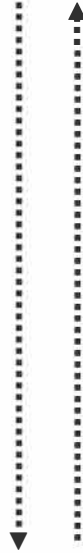
TestNG

Both offer similar basic functionality

Both are widely used

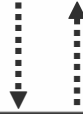
JUnit is more popular, so let's go with it

Public Repo



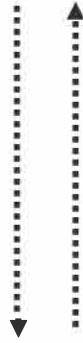
.m2/

Public Repo



Enterprise Repo

JAR



.m2/

Summary



Test Automation includes unit tests and higher-level functional tests

- UI tests
- Web API tests
- Other

Functional tests are usually developed in a separate project – the Test Automation Framework

Setup

