Writing Tests First

JIM WEAVER
SOFTWARE DEVELOPER

@tenoxtweets

Module
Overview

Learn about test-driven development (TDD)

Drive development of a new feature from a unit test

Test-driven Development

Described by Kent Beck in *Test-Driven Development By Example* in 2002

Rather than implementing a feature first, then testing it, drive development of the feature from a test

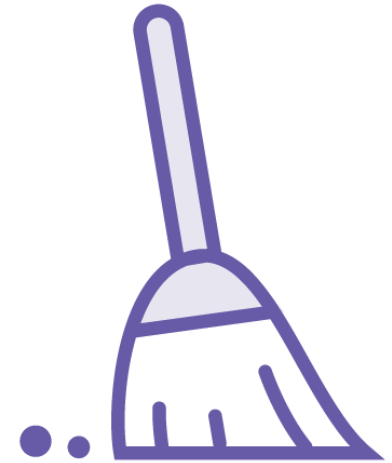Works by frequent switching from test to production code and back

Benefits

Keeps you focused

Produces testable designs
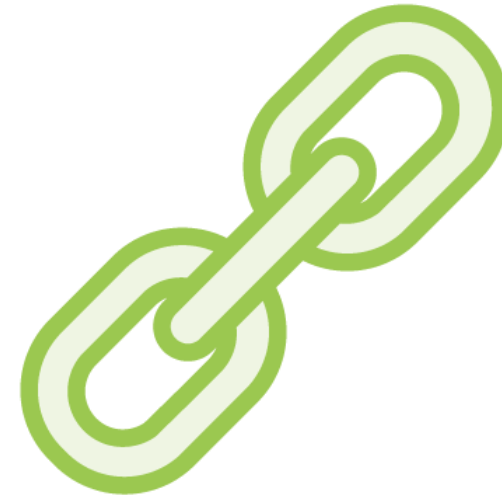
Helps produce clear interfaces

Helps produce clean code

The Basics

Write just enough test code to fail

Write just enough production code to pass that test and no more

Red, Green, Refactor

You have a failing unit test

You implement enough code to pass that test

You refactor to clean up the implementing code

Demo

Building a feature test first

Module

Summary

Implemented a feature for the intake system test first

Alternated between test and writing code as functionality added

Only added production code to pass a failing test