

Clean Code, TDD, BDD Crash Course (Go)

 Duration: 2 Days

 Available Languages: English German

Audience

Software Crafters: Software Developers, Architects.

Precondition

Good knowledge of Go.

Goals

Learn how to develop software better using Clean Code, TDD, and BDD.

Contents

- Clean Code Introduction
 - # Clean Code and Scrum/XP
 - # The Two Values of Software
 - # The 5 Design Smells
- Clean Code Basics
 - # Form and Names
 - # Functions and Function Structure
 - # Programming Paradigms Revisited
- Clean Architecture: Principles of Object-Oriented Class Design
 - # Coupling and Cohesion
 - # SOLID Principles
 - # Package Principles
 - # The 4 Rules of Simple Design
- Refactoring
 - # Goals
 - # Techniques (rename, move, extract, convert, etc)
 - # Protect against regression
 - # Legacy code: Characterization testing, seams, sprouts, etc
- Test Basics
 - # Testing and Scrum/XP
 - # The Test Automation Pyramid
 - # Test Automation, Testing, and CI/CD
- Test-Driven Design
 - # Anatomy of xUnit Frameworks; go test / testing
 - # Definition of Testable
 - # The Three Laws of TDD

- # The Red-Green-Refactor Cycle
- # The Red-Green-Refactor-Commit Cycle
- # The Test-Commit-Revert Cycle (TCR)
- # Principles of TDD
- Advanced TDD
 - # The Transformation Priority Premise, Test Sequence
 - # Test-Doubles, Mocking
 - # Stateism vs Mockism
 - # How TDD drives an emergent design
- Behavior-Driven Development
 - # The Gherkin Language, Feature Files
 - # Integrating and Mapping BDD in Scrum/XP - Acceptance Test-Driven Development
- Godog
 - # Assertions with Nelkinda assert-go
 - # Reusing Feature Files on different levels of the test pyramid
 - # Managing Godog in large projects

In open classroom training, we use a specific set of tools listed below. In brackets are alternatives to which we can tailor the training in case of in-house training.

Language

Golang (also available in C#, C++, Java, JavaScript, Kotlin, and Scala)

IDE

IntelliJ IDEA (Eclipse, GoLand, NetBeans, Atom, Visual Studio Code)

Unit Test Framework

go testing (TestNG, JUnit 5, JUnit 4, JUnit 3, ScalaTest, NUnit, Visual Studio Testing Framework, Mocha)

BDD Framework

Godog (Cucumber, Fit, FitNesse, JBehave, JDave, Concordion, SpecFlow)

Booking

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