NELKINDA SOFTWARE CRAFT

🞓 TRAINING

<u>Clean Code, TDD, BDD</u> <u>Crash Course (Scala)</u>

ODuration: 2 Days

👰 Available Languages: English German

Audience

Software Crafters: Software Developers, Architects.

Precondition

Good knowledge of Scala.

<u>Goals</u>

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

<u>Contents</u>

- 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; ScalaTest
 - # Definition of Testable
 - # The Three Laws of TDD

https://nelkinda.com/training/CleanCode-TDD-BDD-Scala-Crash

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- # 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
- Cucumber
 - # Step Definitions in Scala
 - # Assertions
 - # Reusing Feature Files on different levels of the test pyramid
 - # Managing Cucumber 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

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

<u>IDE</u>

IntelliJ IDEA (Eclipse / Scala IDE)

Unit Test Framework

ScalaTest

BDD Framework

Cucumber

<u>Booking</u>

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