Source Code

The source code for the course is hosted on https://github.com/hhimanshu/Unit-Testing-In-Scala.
For any issues with this document, please reach out to harit@bonsaiilabs.com

Unit Testing in Scala

This project uses `ScalaTest` to write all the unit tests in the course.

Prerequisites

- You must have `git` installed
- You must have Java v13 installed

```
→ java -version
openjdk version "13" 2019-09-17
OpenJDK Runtime Environment AdoptOpenJDK (build 13+33)
OpenJDK 64-Bit Server VM AdoptOpenJDK (build 13+33, mixed mode, sharing)
```

- You must have sbt 1.3.3 or higher installed

```
→ sbt --version
sbt version in this project: 1.3.3
sbt script version: 1.3.3
```

- You must have Scala 2.13.1 installed

```
→ scala --version
Scala code runner version 2.13.1 -- Copyright 2002-2019, LAMP/EPFL and Lightbend, Inc.
```

How to run?

- Create a fork of this repo. Follow Github documentation on how to achieve this.
- Clone your forked repo.

```
git clone https://github.com/<your-user-name>/Unit-Testing-In-Scala
cd Unit-Testing-In-Scala
```

Verify if the project is setup for the course

```
sbt "runMain BankOfScala"
```

Module 03 - Writing the First Test

Add the scalatest dependency in `build.sbt`

```
libraryDependencies += "org.scalatest" %% "scalatest" % "3.1.0" % "test"
```

Compiling & Running test using Scala

- Download the ScalaTest jar file. This is available on Quickstart page
- Download the scala-xml jar file
- Compile the Test class

```
scalac -classpath "*.jar" HelloWorldSpec.scala
```

- Run the Test

```
scala -classpath "*.jar" org.scalatest.run HelloWorldSpec
```

Module 07 - Mocking and Tagging Your Tests

The latest ScalaMock release `4.4.0` has not been updated with the latest ScalaTest release `3.1.0`. There is an open pull request to merge the changes.

However, there are no breaking or conflicting changes between ScalaTest and ScalaMock. So, in order to learn ScalaMock, you can learn it with the ScalaTest release `3.0.8` which is 1 release behind the latest ScalaTest `3.1.0`.

Clone the repository

```
https://github.com/hhimanshu/Unit-Testing-In-Scala-Mocking
```

The test source is available under `src/test/scala`.

To run all the tests, run

```
test
```

To run the test including a specific tag, run

```
testOnly -- -n com.h2.tags.Fast
testOnly -- -n com.h2.tags.Slow
```

To run the test excluding a specific tag, run

```
testOnly -- -l com.h2.tags.Fast
testOnly -- -l com.h2.tags.Slow
```