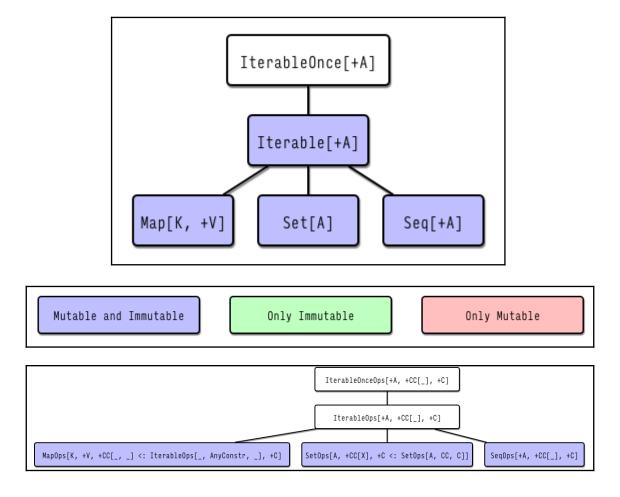
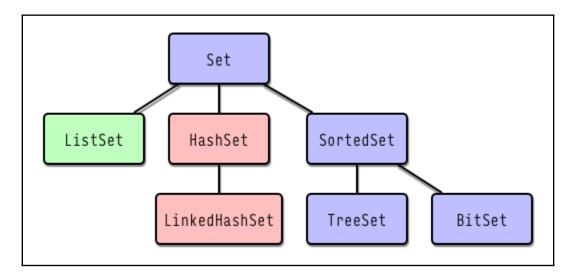
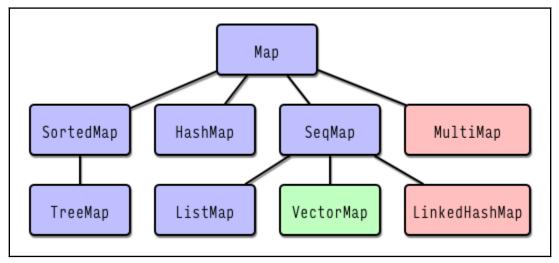
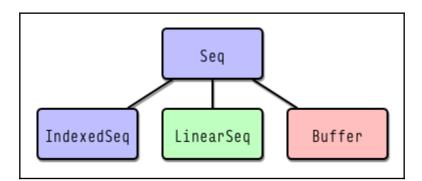
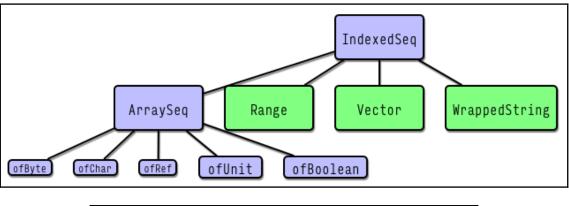
Chapter 1: An Introduction to Scala 2.13

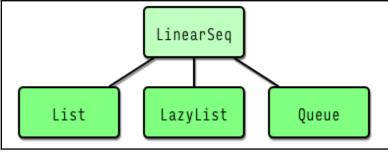


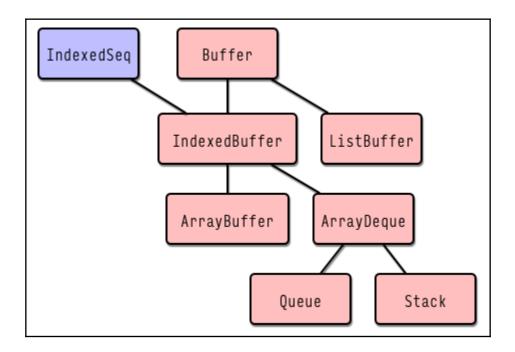




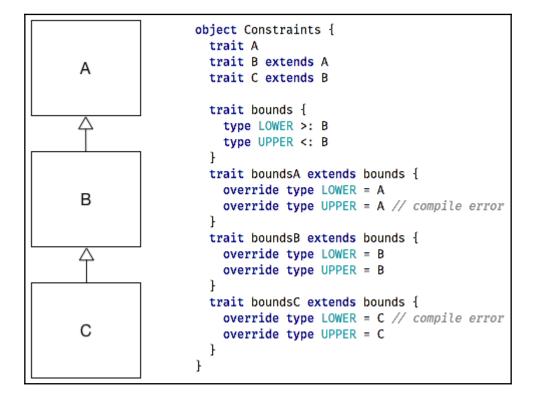


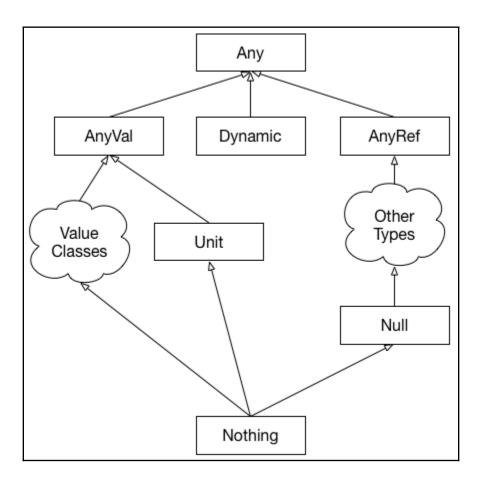




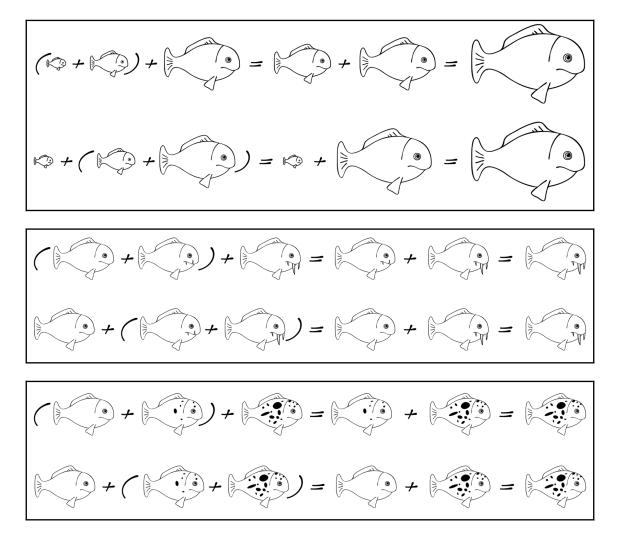


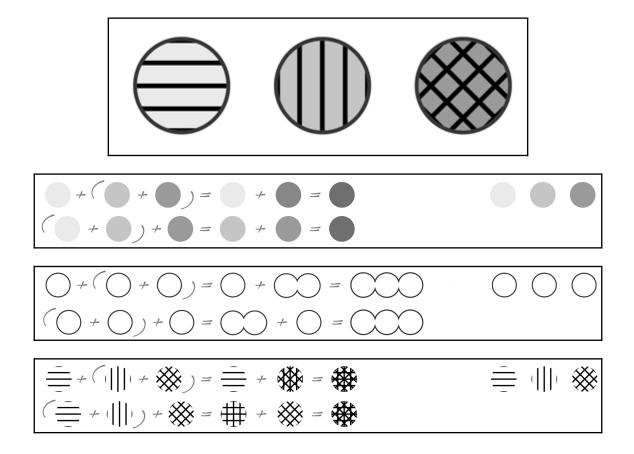
Chapter 2: Understanding Types in Scala



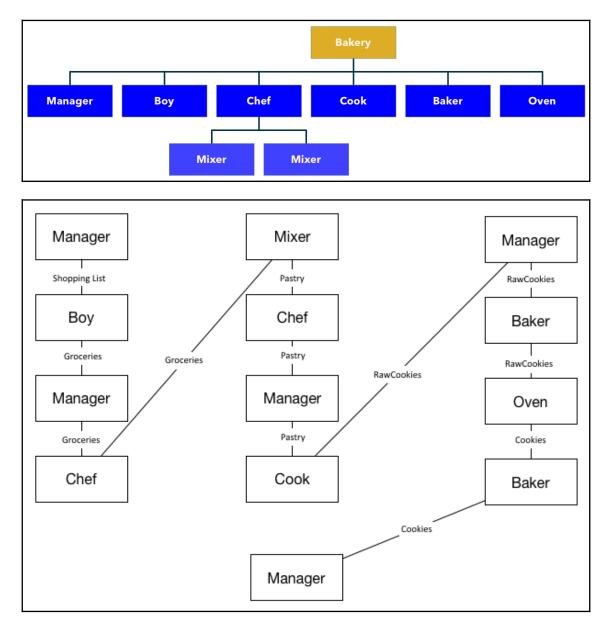


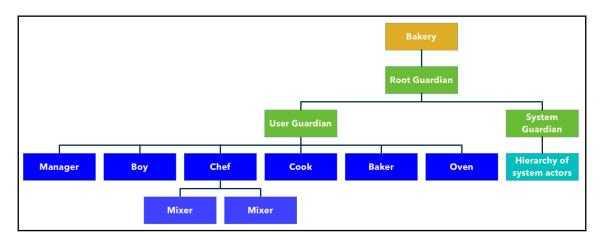
Chapter 7: Understanding Algebraic Structures

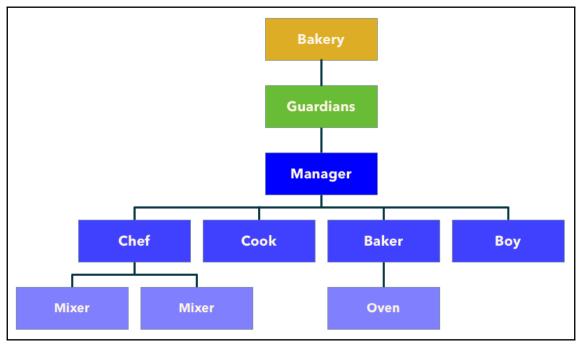




Chapter 11: An Introduction to the Akka and Actor Models



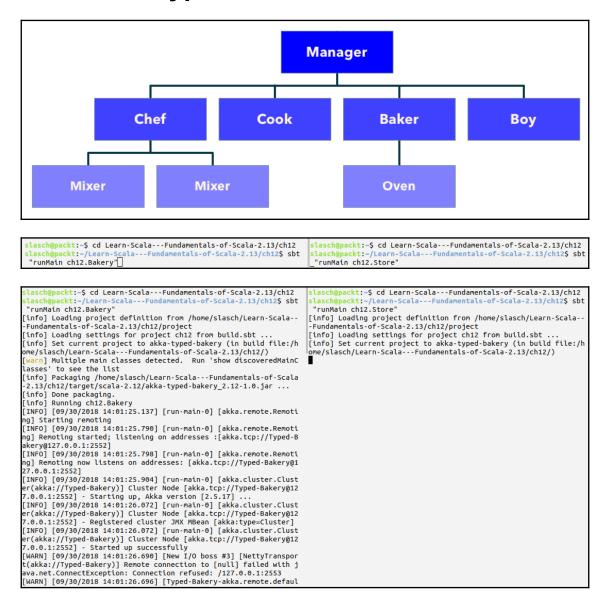




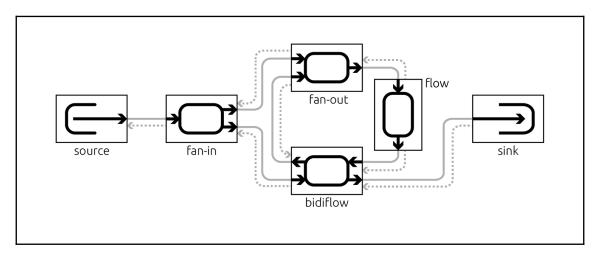
	<pre>slasch@packt:-\$ cd Learn-Scala:Fundamentals-of-Scala-2.13/ch11 slasch@packt:-/Learn-Scala:Fundamentals-of-Scala-2.13/ch11\$ sbt [info] Loading project definition from /home/slasch/Learn-Scala -Fundamentals-of-Scala-2.13/ch11/project [info] Loading settings for project ch1 from build.sbt [info] Set current project to akka-bakery (in build file:/home/sl asch/Learn-ScalaFundamentals-of-Scala-2.13/ch11/) [info] sbt server started at local:///home/slasch/.sbt/1.0/server /7bde7a4d263e73d9ff87/sock sbt:akka-bakery> [info] new client connected: network-1 run [warn] Multiple main classes detected. Run 'show discoveredMainC lasses' to see the list Multiple main classes detected, select one to run: [1] ch11.Bakery [2] ch11.Store</pre>
Enter number:	<pre>Enter number: 2 [info] Running ch11.Store [INF0] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INF0] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INF0] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0. 1:2553]</pre>

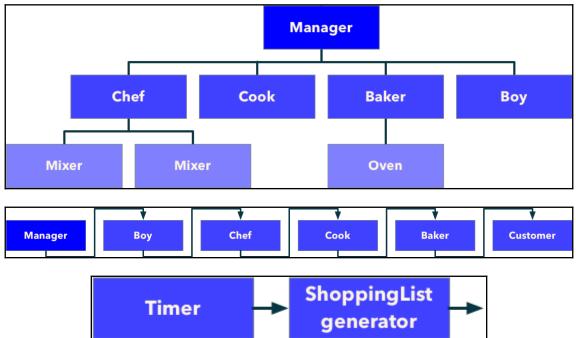
<pre>slaschgpackt:-S cd Learn-ScalaFundamentals-of-Scala-2.13/ch11 slaschgpackt:-/Learn-ScalaFundamentals-of-Scala-2.13/ch11\$ sbt [info] Loading project definition from /home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch11/project [info] Loading settings for project ch11 from build.sbt [info] Set current project to akka-bakery (in build file:/home/sl asch/Learn-ScalaFundamentals-of-Scala-2.13/ch11/) [warn] st server could not start because there's another instance e of sbt running on this build. [warn] Running multiple instances is unsupported sbt:akka-bakery run [warn] Multiple main classes detected. Run 'show discoveredMainC lasses' to see the list Multiple main classes detected, select one to run: [1] ch11.Bakery</pre>	<pre>slasch@packt:-/Learn-ScalaFundamentals-of-Scala-2.13/ch11\$ sbt [info] Loading project definition from /home/slasch/Learn-Scala Fundamentals-of-Scala-2.13/ch11/project [info] Set current project to akka-bakery (in build sbt [info] Set current project to akka-bakery (in build file:/home/sl asch/Learn-ScalaIndamentals-of-Scala-2.13/ch11/) [info] sbt server started at local:///home/slasch/.sbt/1.0/server /7bde7a4d263e73d9ff87/sock sbt:akka-bakery> [info] new client connected: network-1 run [warn] Multiple main classes detected. Run 'show discoveredMainC lasses' to see the list Multiple main classes detected, select one to run: [1] ch11.Bakery [2] ch11.Store</pre>
[2] ch11.Store	
	Enter number: 2
Enter number: 1	
	[info] Running ch11.Store
[info] Running ch11.Bakery	[info] Running ch11.Store [INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti
[info] Running ch11.Bakery	[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti
[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store01</pre>
[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553]</pre>
<pre>[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552]</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti</pre>
<pre>[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INFO] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0.</pre>
<pre>[info] Running ch11.Bakery [INF0] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INF0] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INF0] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.00.01:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0 1:2553]</pre>
<pre>[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INFO] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0 .1:2552]</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0. 1:2553] [WARN] [SECURITY][09/29/2018 19:54:34.080] [Store-akka.remote.def</pre>
<pre>[info] Running ch11.Bakery [InFo] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INFO] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0 .1:2552] [WARN] [SECURITY][09/29/2018 19:54:33.850] [Bakery-akka.remote.de</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.00.01:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0 1:2553]</pre>
<pre>[info] Running ch11.Bakery [INF0] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INF0] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INF0] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0 .1:2552] [WARN] [SECURITY][09/29/2018 19:54:33.850] [Bakery-akka.remote.de fault-remote-dispatcher-6] [akka.serialization.serialization(akka</pre>	<pre>[INF0] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INF0] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INF0] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0 1:2553] [WARN] [SECURITY][09/29/2018 19:54:34.080] [Store-akka.remote.def ault-remote-dispatcher-6] [akka.serialization.Serialization(akka:</pre>
<pre>[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INFO] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0 .1:2552]</pre>	<pre>[INFO] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INFO] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0. 1:2553] [WARN] [SECURITY][09/29/2018 19:54:34.080] [Store-akka.remote.def ault-remote-dispatcher-6] [akka.serialization.Serialization(akka: //Store)] Using the default Java serializer for class [ch11.Mixer</pre>
<pre>[info] Running ch11.Bakery [INFO] [09/29/2018 19:54:31.443] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INFO] [09/29/2018 19:54:31.921] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Bakery@ 127.0.0.1:2552] [INFO] [09/29/2018 19:54:31.922] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Bakery@127.0.0 1:2552] [WARN] [SECURITY][09/29/2018 19:54:33.850] [Bakery-akka.remote.de fault-remote-dispatcher-6] [akka.serialization.Serialization(akka ://Bakery] Using the default Java serializer for class [ch11.Man</pre>	<pre>[INF0] [09/29/2018 19:54:17.938] [run-main-0] [akka.remote.Remoti ng] Starting remoting [INF0] [09/29/2018 19:54:18.408] [run-main-0] [akka.remote.Remoti ng] Remoting started; listening on addresses :[akka.tcp://Store@1 27.0.0.1:2553] [INF0] [09/29/2018 19:54:18.412] [run-main-0] [akka.remote.Remoti ng] Remoting now listens on addresses: [akka.tcp://Store@127.0.0. 1:2553] [WARN] [SECURITY][09/29/2018 19:54:34.080] [Store-akka.remote.def ault-remote-dispatcher-6] [akka.serialization.Serialization(akka: //Store)] Using the default Java serializer for class [ch11.Mixer SGroceries] which is not recommended because of performance inpli</pre>

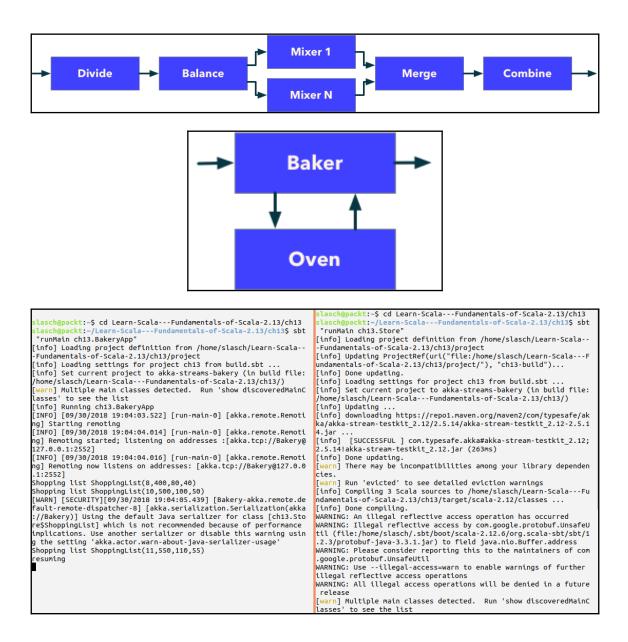
Chapter 12: Building Reactive Applications with Akka Typed



Chapter 13: Basics of Akka Streams







Chapter 14: Project 1 - Building Microservices with Scala

<pre>slaschgpackt:=/tearn-ScalaFundamentals-of-Scala-2.13/ch145 sbt [info] Loading settings for project ch14-build from plugins.sbt [info] Loading project definition from /home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/project [info] Loading settings for project root from build.sbt [info] Loading settings for project root fine build.sbt [info] Sbt server started at local:///home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [info] Sbt server started at local://home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [info] Sbt server started at local://home/slasch/.sbt/1.0/server/5feabd4374d0fc31ffb8/sock sbt:roots-http4s/run dfinfo] Running ch14.Server 19:52:45.135 [run-main-0] DEBUG com.zaxxer.htkart.HtkarlConfig = HtkarlPool-1 - configuration: 19:52:45.135 [run-main-0] DEBUG com.zaxxer.htkart.HtkarlConfig = autoCommit</pre>	slasch@packt:~S cd Learn-ScalaFundamentals-of-Scala-2.13/ch14
<pre>[Info] Loading settings for project ch14-build from plugins.bt [Info] Loading project definition from /home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/project [Info] Loading settings for project root from build.sht [Info] Set current project to root (in build file:/home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [Info] sts erver started at local:///home/slasch/.sbt/1.0/server/Sfeabd4374d0fG31ffb8/sock sbt:roots https5/run d[info] nunning ch14.Server]9:52:45.105 [run-main-0] DEBUG com.zaxxer.hikari.Hikarlconfig allowPoolsupensionfalse 19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.Hikarlconfig catalog</pre>	
<pre>[Info] Loading project definition from /home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/project [Info] Set current project to root (In build file:/home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [Info] Running ch14.Server 1952:45.155 [run-main-0] DEBUG con.zaxxer.hitkari.HtkariConfig - HikariPool-1 - configuration: 1952:45.157 [run-main-0] DEBUG con.zaxxer.hitkari.HtkariConfig - allowPoolSuspension</pre>	
<pre>[Info] Loading settings for project root from build.sbt [Info] Set current project to root (in build file:/home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [Info] sbt server started at local:///home/slasch/.sbt/1.0/server/5feabd374dbfc31ffb8/sock sbt:root- http45/run d[Info] nunning ch14.Server 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - allowPoolSuspension</pre>	
<pre>[Info] Set current project to root (in build file:/home/slasch/Learn-ScalaFundamentals-of-Scala-2.13/ch14/) [Info] strearer started at local:///home/slasch/.sbt/1.0/server/Sfeabd4374d@fc31ffb8/sock sbt:root= http4s/run d[info] Running ch14.Server 19:52:45.158 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig = HikariPool-1 - configuration: 19:52:45.158 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig = autoCommit</pre>	
<pre>[info] sbt server started at local:///home/slasch/.sbt/1.0/server/Sfeabd4374d0fc31ffb8/sock sbt:root> http4s/run d(info] Running ch14.Server 19:52:45.105 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - HikariPool1 - configuration: 19:52:45.131 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - allowPoolSuspensionfalse 19:52:45.157 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - autoCommittrue 19:52:45.157 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - catalognone 19:52:45.157 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - connectionIntEsqlnone 19:52:45.157 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - connectionTestQuerynone 19:52:45.156 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - connectionTestQuerynone 19:52:45.161 [run-main-0] DEBUG com.zaxxer.htkari.HikariConfig - connectionTimeout</pre>	
<pre>bt:root> https:/run d[info] Running ch14.Server 19:52:45.105 [run-main-0] INFO org.flywaydb.core.internal.util.VersionPrinter - Flyway Community Edition 5.1.4 by Boxfuse 19:52:45.131 [run-main-0] DEBUG com.zaxxer.hikari.HtkariConfig - allowPoolSuspensionfalse 19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.HtkariConfig - autoCommit</pre>	
<pre>d[info] Running ch14.Server 19:52:45.105 [run-main-0] INFO org.flywaydb.core.internal.util.VersionPrinter - Flyway Community Edition 5.1.4 by Boxfuse 19:52:45.131 [run-main-0] DEBUG com.zaxxer.hikari.HtkariConfig - allowPoolSuspensionfalse 19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.HtkariConfig - autoCommit</pre>	
19:52:45.105 [run-main-0] INFO org.flywaydb.core.internal.util.VersionPrinter - Flyway Community Edition 5.1.4 by Boxfuse 19:52:45.131 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - allowPoolSuspensionfalse 19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - autoCommit	
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19:52:45.152 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - autoCommit	
19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - autoCommit.	
19:52:45.157 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionInitSqlnone 19:52:45.158 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionInitSqlnone 19:52:45.160 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionTimeout	
19:52:45.158 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionInitsqlnone 19:52:45.160 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionTestQuery	
19:52:45.160 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionTestQuerynone 19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSource	
19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - connectionTimeout	
19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourcenone 19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourcelassNamenone 19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceNorceNorceNorceNorceNorceNorceNorceNo	
19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceClassNameone 19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceProperties	
19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceJNDInone 19:52:45.162 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceJNDInone 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckPropertiesnone 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckPropertiesnone 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckRegistrynone 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - idleTimeout	
19:52:45.162 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceProperties	19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceClassNamenone
19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - driverClassName	19:52:45.161 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceJNDInone
19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig healthCheckProperties	19:52:45.162 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - dataSourceProperties
19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckRegistrynone 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - initializationFailTimeout1 19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - initializationFailTimeout1 19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueriesfalse 19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueriesfalse 19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueries	19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - driverClassNamenone
19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - idleTimeout	19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckProperties
19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - initializationFailTimeout1 19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueriesfalse 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - jdbcUrljdbc:h2:mem:ch14;DB_CLOSE_DELAY=-1 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - leakDetectionThreshold0 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxLifetime1800000 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxLifetime10 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRegistry	19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - healthCheckRegistrynone
19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueriesfalse 19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - jdbcUrljdbc:h2:mem:ch14;DB_CLOSE_DELAY=-1 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - leakDetectionThreshold0 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxiifetime	19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - idleTimeout
19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - jdbcUrljdbc:h2:mem:ch14;DB_CLOSE_DELAY=-1 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxifetime	19:52:45.165 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - initializationFailTimeout1
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - leakDetectionThreshold0 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxiifetime	19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - isolateInternalQueriesfalse
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxLifetime1800000 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maximumPoolSizenone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRegistrynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRefactorynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRefactory10	19:52:45.166 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - jdbcUrljdbc:h2:mem:ch14;DB CLOSE DELAY=-1
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maximumPoolSize	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - leakDetectionThreshold0
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRegistrynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricsTrackerFactorynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - minimumIdle	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maxLifetime
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricsTrackerFactorynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - minimumIdle10	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - maximumPoolSize
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricsTrackerFactorynone 19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - minimumIdle10	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricRegistrynone
19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - minimumIdle	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - metricsTrackerFactorynone
	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - minimumIdle
	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - password
	19:52:45.167 [run-main-0] DEBUG com.zaxxer.hikari.HikariConfig - poolName

```
19:52:46.799 [run-main-0] DEBUG org.flywaydb.core.internal.database.Table - Lock acquired for table "PUBLIC"."flyway_schema_history
19:52:46.845 [run-main-0] INFO org.flywaydb.core.internal.command.DbMigrate - Current version of schema "PUBLIC": << Empty Schema >>
19:52:46.867 [run-main-0] DEBUG org.flywaydb.core.internal.database.ExecutableSqlScript - Parsing V1_inventory_table.sql ...
19:52:46.878 [run-main-0] DEBUG org.flywaydb.core.internal.database.ExecutableSqlScript - Found statement at line 1: CREATE TABLE art
icle (
 name
        VARCHAR PRIMARY KEY,
  count INTEGER NOT NULL CHECK (count >= 0)
19:52:46.879 [run-main-0] INFO org.flywavdb.core.internal.command.DbMigrate - Migrating schema "PUBLIC" to version 1 - inventory tabl
19:52:46.883 [run-main-0] DEBUG org.flywaydb.core.internal.database.ExecutableSqlScript - Executing SQL: CREATE TABLE article (
 name VARCHAR PRIMARY KEY.
 count INTEGER NOT NULL CHECK (count >= 0)
9:52:46.891 [run-main-0] DEBUG org.flywaydb.core.internal.database.ExecutableSqlScript - Update Count: 0
19:52:46.902 [run-main-0] DEBUG org.flywaydb.core.internal.command.DbMigrate - Successfully completed migration of schema "PUBLIC" to
 version 1 - inventory table
19:52:46.959 [run-main-0] DEBUG org.flywaydb.core.internal.database.Table - Locking table "PUBLIC"."flyway_schema_history"...
19:52:46.968 [run-main-0] DEBUG org.flywaydb.core.internal.database.Table - Lock acquired for table "PUBLIC"."flyway schema history'
19:52:46.971 [run-main-0] DEBUG org.flywaydb.core.internal.schemahistory.JdbcTableSchemaHistory - Schema History table "PUBLIC"."flyw
ay schema history" successfully updated to reflect changes
19:52:46.979 [run-main-0] DEBUG org.flywaydb.core.internal.database.Table - Locking table "PUBLIC"."flyway_schema_history"..
19:52:47.003 [run-main-0] DEBUG org.flywaydb.core.internal.database.Table - Lock acquired for table "PUBLIC"."flyway_schema_history"
19:52:47.050 [run-main-0] INFO org.flywaydb.core.internal.command.DbMigrate - Successfully applied 1 migration to schema "PUBLIC" (ex
ecution time 00:00.567s)
19:52:47.357 [run-main-0] INFO org.http4s.blaze.channel.nio1.NIO1SocketServerGroup - Service bound to address /0:0:0:0:0:0:0:0:8080
19:52:47.358 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder
19:52:47.361 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder - | | | | | | _ _ _ | | | _ _ _ _ | | | _ _
19:52:47.361 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder - | ' \ _ | _ | ' \ _ _ (_-<
19:52:47.361 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder - | | \ _ | _ | / _ | / _ / _ _ / _ _ / _ _ /
19:52:47.361 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder -
19:52:47.520 [run-main-0] INFO org.http4s.server.blaze.BlazeBuilder - http4s v0.18.9 on blaze v0.12.13 started at http://[0:0:0:0:0:0
:0:01:8080/
19:53:15.716 [HikariPool-1 housekeeper] DEBUG com.zaxxer.hikari.pool.HikariPool - HikariPool-1 - Pool stats (total=10, active=0, idle
=10. waiting=0
```

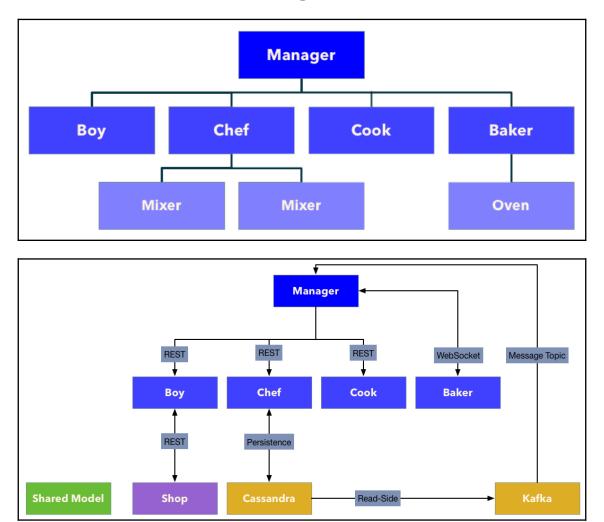
```
slasch void:~$ ## Get Inventory
slasch void:~$ curl "http://localhost:8080/inventory"
{}slasch void:~$ ## Create Chocolate
slasch void:~$ curl -X "POST" "http://localhost:8080/articles/chocolate"
slasch void:~$ ## Create Eggs
slasch void:~$ curl -X "POST" "http://localhost:8080/articles/eggs"
slasch void:~$ ## Restock
slasch void:~$ curl -X "POST" "http://localhost:8080/restock" \
       -H 'Content-Type: application/json; charset=utf-8' \
>
       -d $'{
>
    "stock": {
>
      "chocolate": 10000,
>
>
      "sugar": 10000,
      "flour": 10000.
>
      "eggs": 10000
>
>
    }
> }'
curl: (18) transfer closed with outstanding read data remaining
slasch void:~$ ## Reinventory
slasch void:~$ curl -X "POST" "http://localhost:8080/restock" \
       -H 'Content-Type: application/json; charset=utf-8' \
>
       -d $'{
>
>
    "inventory": {
      "chocolate": 10000,
>
      "sugar": 10000,
>
      "flour": 10000,
>
      "eggs": 10000
>
   }
>
> }'
{"chocolate":10000,"eggs":10000}slasch void:~$ ## Get Inventory
slasch void:~$ curl "http://localhost:8080/inventory"
{"chocolate":10000,"eggs":10000}slasch void:~$
```

```
lasch@packt:~$ cd Learn-Scala---Fundamentals-of-Scala-2.13/ch14
 lasch@packt:~/Learn-Scala---Fundamentals-of-Scala-2.13/ch14$ sbt
[info] Loading settings for project ch14-build from plugins.sbt ..
[info] Loading project definition from /home/slasch/learn-Scala---Fundamentals-of-Scala-2.13/ch14/project
[info] Loading settings for project root from build.sbt ..
[info] Set current project to root (in build file:/home/slasch/Learn-Scala---Fundamentals-of-Scala-2.13/ch14/)
[info] sbt server started at local:///home/slasch/.sbt/1.0/server/5feabd4374d0fc31ffb8/sock
sbt:root> akkaHttp/run
[info] Updating akkaHttp..
info] downloading https://repo1.maven.org/maven2/com/typesafe/akka/akka-slf4j_2.12/2.5.14/akka-slf4j_2.12-2.5.14.jar ...
       [SUCCESSFUL ] com.typesafe.akka#akka-slf4j_2.12;2.5.14!akka-slf4j_2.12.jar (1167ms)
[info]
[info] Done updating.
 warn] There may be incompatibilities among your library dependencies.
  warn] Run 'evicted' to see detailed eviction warnings
[info] Packaging /home/slasch/Learn-Scala---Fundamentals-of-Scala-2.13/ch14/akka-http/target/scala-2.12/akka-http_2.12-1.0-SNAPSHOT.j
[info] Done packaging.
[info] Running ch14.Server
20:26:48.713 [ch14-akka.actor.default-dispatcher-5] INFO akka.event.slf4j.Slf4jLogger - Slf4jLogger started
20:26:48.991 [run-main-0] INFO o.f.c.internal.util.VersionPrinter - Flyway Community Edition 5.1.4 by Boxfuse
20:26:49.559 [run-main-0] INFO o.f.c.i.database.DatabaseFactory - Database: jdbc:h2:file:./ch14 (H2 1.4)
20:26:49.856 [run-main-0] INFO o.f.core.internal.command.DbValidate - Successfully validated 1 migration (execution time 00:00.065s)
20:26:49.931 [run-main-0] INFO o.f.core.internal.command.DbMigrate - Current version of schema "PUBLIC": 1
20:26:49.933 [run-main-0] INFO o.f.core.internal.command.DbMigrate - Schema "PUBLIC" is up to date. No migration necessary
slasch void:~$ curl "http://localhost:8080/inventory'
{"state":{"eggs":935."flour":1000."sugar":1000."chocolate":995}}slasch void:~$ curl -X "POST" "http://localhost:8080/purchase" \
       -H 'Content-Type: application/json; charset=utf-8' \
        -d $'{
     "order": {
```

> "eggs": 65
> }
}
{"order":{"chocolate":5,"eggs":65}}
slasch void:-\$ curl "http://localhost:8080/inventory"
{"state":{"eggs":870,"flour":1000,"sugar":1000,"chocolate":990}}slasch void:-\$ _

"chocolate": 5,

Chapter 15: Project 2 - Building Microservices with Lagom



<pre>slasch void:~/Dropbox/packt\$ cd Learn-ScalaFundamentals-of-Scala-2.12/ch15</pre>	<pre>slasch void:~/Dropbox/packt\$ cd Learn-ScalaFundamentals-of-Scala-2.12/ch14</pre>
<pre>slasch void:~/Dropbox/packt/Learn-ScalaFundamentals-of-Scala-2.12/ch15 [mas</pre>	<pre>slasch void:~/Dropbox/packt/Learn-ScalaFundamentals-of-Scala-2.12/ch14 [mas</pre>
ter]\$ sbt	ter]\$ sbt
[info] Loading settings for project ch15-build from plugins.sbt	[info] Loading settings for project ch14-build from plugins.sbt
[info] Loading project definition from /Users/slasch/Dropbox/packt/Learn-Scala	[info] Loading project definition from /Users/slasch/Dropbox/packt/Learn-Scala
Fundamentals-of-Scala-2.12/ch15/project	Fundamentals-of-Scala-2.12/ch14/project
[info] Loading settings for project bakery from build.sbt	[info] Loading settings for project root from build.sbt
[info] Set current project to bakery (in build file:/Users/slasch/Dropbox/pack	[info] Set current project to root (in build file:/Users/slasch/Dropbox/packt/
t/Learn-ScalaFundamentals-of-Scala-2.12/ch15/)	Learn-ScalaFundamentals-of-Scala-2.12/ch14/)
[info] sbt server started at local:///Users/slasch/.sbt/1.0/server/1b265a88e47	[info] sbt server started at local:///Users/slasch/.sbt/1.0/server/8034325e153
ace241bb7/sock	80d474f63/sock
<pre>sbt:bakery> runAll</pre>	sbt:root> akkaHttp/run
	[info] Running ch14.Server
	21:06:56.474 [ch14-akka.actor.default-dispatcher-2] INFO akka.event.slf4j.Slf
	4jLogger - Slf4jLogger started
	21:06:56.693 [run-main-0] INFO o.f.c.internal.util.VersionPrinter - Flyway Co
	mmunity Edition 5.1.4 by Boxfuse
	21:06:57.395 [run-main-0] INFO o.f.c.i.database.DatabaseFactory - Database: j
	dbc:h2:file:./ch14 (H2 1.4)
	21:06:57.685 [run-main-0] INFO o.f.core.internal.command.DbValidate - Success
	fully validated 1 migration (execution time 00:00.056s)
	21:06:57.774 [run-main-0] INFO o.f.core.internal.command.DbMigrate - Current
	version of schema "PUBLIC": 1
	21:06:57.778 [run-main-0] INFO o.f.core.internal.command.DbMigrate - Schema "
	PUBLIC" is up to date. No migration necessary.
	······································

20:55:58.666	info	<pre>Manager [] - Shopping list: ShoppingList(10,300,100,50)</pre>
20:55:59.735	[info]	Manager [] - Sent Groceries(10,300,100,50) to Chef
20:56:11.570	[info]	<pre>Baker [] - Baking: Source(SourceShape(Map.out(882804106)))</pre>
20:56:11.582	[info]	BakerFlow [] - Extracting: RawCookies(15)
20:56:11.583	[info]	Oven [] - Baked: RawCookies(12)

Chapter 16: Preparing the Environment and Running Code Samples

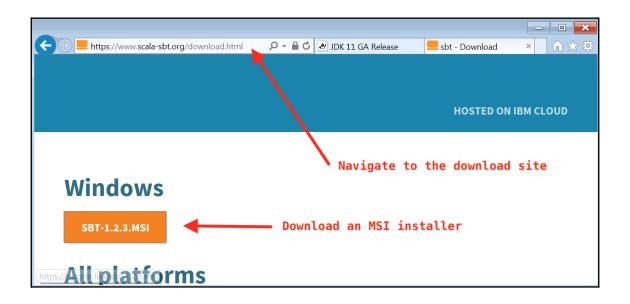
Last login: Sat Sep 29 15:48:30 on ttys006 slasch void:-\$ wget https://download.java.net/java/ga/jdk11/openjdk-11_osx-x64_bin.tar.gz
openjdk-11_osx-x64_bin.tar.gz.1 100%[
2018-09-29 15:54:21 (2.22 MB/s) - < <openjdk-11_osx-x64_bin.tar.gz.1>> gespeichert [182717049/182717049]</openjdk-11_osx-x64_bin.tar.gz.1>
slasch void:-\$ tar -xzf openjdk-11_osx-x64_bin.tar.gz Extract the installation slasch void:-\$ export JAVA_HOME=`pud'/jdk-11.jdk/Contents/Home/ Update environment slasch void:-\$ echo 'PATH=SPATH':SJAVA_HOME/bin >> hashtroc
slasch void:-\$ export PATH=\$PATH:\$JAVA_HOME/bin slasch void:-\$ java -version openjdk version "11" 2018-09-25
DpenJDK Runtime Environment 18.9 (build 11+28) DpenJDK 64-Bit Server VM 18.9 (build 11+28, mixed mode) slasch void:≤\$

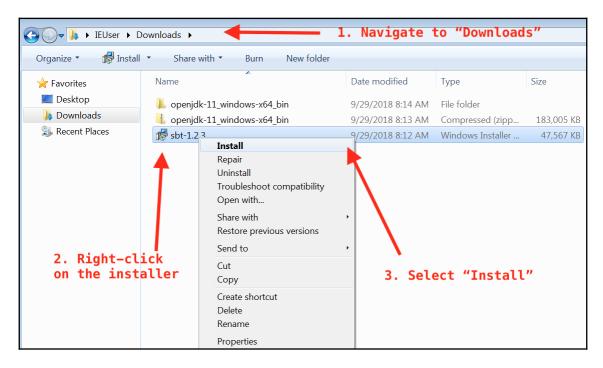
+ 🔿 🛃 http://jdk.j	ava.net/11/	D-0	🔊 JDK 11 GA Release	×	h 🖈 🍄
Implementations Java SE 11 Java SE 10 Java SE 9 Java SE 8 Java SE 7 Feedback Report a bug Archive	 Features Release notes API Javadoc Tool & command re Downloads	eference	Download	d page	^
Altinye	Linux/x64 macOS/x64 Windows/x64 Notes	tar.gz (sha256) tar.gz (sha256) zip (sha256)	187611826 bytes 182717049 187396683		Installation
			se builds, clone the JDK : jdk-11+28.	11 Mercu	rial
	 If you have difficult download-help_www 		any of these files please	e contact	jdk-
https://docs.oracle.com/	en/java/javase/11/docs/api/index	.html			~

Downloads	openjdk-11_windows-x	64_bin 🕨		
all files				
Name	A		Туре	
👢 jdk-11			File folder	
	View Sort by Group by Refresh		Extract	jdk
	Paste Paste shortcut			
	Extract All			

Programs (1)	C:\Windows\system32\cmd.exe
Cmd	Microsoft Windows [Uersion 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.
Files (1)	C:\Users\IEUser>path
jdwpTransport.h	PATH:C:\Windows\system32:C:\Windows:C:\Windows\System32\Wbem;C:\Windows\System32 \WindowsPowerShell\v1.0\;C:\Users\TEUser\Downloads\openjdk-11_windows-x64_bin\jd k-11\bin
	C:\Users\IEUser>java -version
₽ See more results	Open console Check Java version
cmd × 😯 Shut down →	· · ·
📀 🧷 🧊 💽 🐲 🖿 👘	

slasch void:~\$ wget https://piccolo.link/sbt-1.2.3.tgz
2018-09-29 15:59:14 https://piccolo.link/sbt-1.2.3.tgz
Aufl"osen des Hostnamens piccolo.link (piccolo.link) 159.8.72.228
Verbindungsaufbau zu piccolo.link (piccolo.link) 159.8.72.228 :443 verbunden.
HTTP-Anforderung gesendet, auf Antwort wird gewartet 301 Moved Permanently
Platz: https://sbt-downloads.cdnedge.bluemix.net/releases/v1.2.3/sbt-1.2.3.tgz [folgend]
2018-09-29 15:59:16 https://sbt-downloads.cdnedge.bluemix.net/releases/v1.2.3/sbt-1.2.3.tgz
Aufl"osen des Hostnamens sbt-downloads.cdnedge.bluemix.net (sbt-downloads.cdnedge.bluemix.net) 23.37.48.60
Verbindungsaufbau zu sbt-downloads.cdnedge.bluemix.net (sbt-downloads.cdnedge.bluemix.net) 23.37.48.60 :443 verbunden.
HTTP-Anforderung gesendet, auf Antwort wird gewartet 200 OK
L"ange: 46849530 (45M) [application/gzip]
Wird in < <sbt-1.2.3.tgz.1>> gespeichert.</sbt-1.2.3.tgz.1>
sbt-1.2.3.tgz.1 100%[========] 44.68M 2.26MB/s in 19s
2018-09-29 15:59:35 (2.38 MB/s) - < <sbt-1.2.3.tgz.1>> gespeichert [46849530/46849530]</sbt-1.2.3.tgz.1>
Extract sbt files
slasch void:-\$ tar -xzf sbt-1.2.3.tgz
slasch void:-\$ export SBT_HOME=`pwd`/sbt/bin
slasch void:~\$ echo 'PATH=\$PATH':\$SBT_HOME >> .bashrc
slasch void:-\$ export PATH=\$PATH:\$SBT_HOME
slasch void:- \$ sbt version Verify installation
[info] Loading project definition from /Users/slasch/project
[info] Set current project to slasch (in build file:/Users/slasch/)
[info] 0.1.0-SNAPSHOT
slasch void:-\$





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ctoning into Leain-Stata unuamentatis-or-Stat	.a-2.13'		
remote: Enumerating objects: 93, done. remote: Counting objects: 100% (93/93), done.			
remote: Counting objects: 100% (93/93), done. remote: Compressing objects: 100% (61/61), done.			
remote: Total 602 (delta 11), reused 80 (delta 8			
Receiving objects: 100% (602/602), 108.48 KiB			
Resolving deltas: 100% (119/119), done.	/95.00 KID/S, dolle.		
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HTTP-Anforderung gesendet, auf Antwort wird gewa			
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	1-2,13-master/thoz/srt/main/stata/thoz/		
	a-2.13-master/ch02/src/main/scala/ch02/Contravariance.scala		

WARHNG: Illegal reflective access by org.jboss.netty.util.internal.ByteBufferUtil (file:/Users/slasch/.ivy2/cache/io.netty/netty/bundles/netty-3.18.6.Final.jar) to method java.nio. DirectByteBuffer.cleaner() WARHNG: Please consider reporting this to the maintainers of org.jboss.netty.util.internal.ByteBufferUtil WARHNG: Jenesillegal-accesswarn to enable warnings of further Illegal reflective access operations
<pre>[info] set current project to akka-bakery (in build file:/Users/slasch/code/Learn-ScalaIndamentals-of-Scala-2.13/ch11/) [info] set server started at local:///Users/slasch/.sb/1.0/server/fddleff96246138563/sock</pre>
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<pre>bt:akka-bakeryp test</pre>
<pre>[INN0] [09/29/2018 18:07:55.548] [Dool-5-thread-4] [akka.remote.Remoting] Starting remoting [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-5] [akka.remote.Remoting] Remoting started; listening on addresses :[akka.tcp://BakerySpec@127.0.0.1:2552] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-5] [akka.remote.Remoting] Remoting started; listening on addresses :[akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-5] [akka.remote.Remoting] Remoting now listens on addresses :[akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-5] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.568] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store@127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.585] [Dool-5-thread-4] [akka.remote.default-remote/store/13] [akka.tcp://BakerySpec/akar.store/14] B14851596]] may have terminated unexpectedly. This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log-dead-letters' and 'akka.log-dead-letters' and 'akka.log-dead-letters' and 'akka.log/2018 18:07:56.897] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/29/2018 18:07:56.897] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/29/2018 18:07:56.897] [BakerySpec.akka.remote.default-termote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remoting daemon shut down; pro NaRNIKG: Illegal reflective</pre>
<pre>[INN0] [09/29/2018 18:07:55.548] [Dool-5-thread-5] [akka.remote.Remoting] starting remoting [INN0] [09/29/2018 18:07:55.8661 [Dool-5-thread-4] [akka.remote.Remoting] Remoting started; listening on addresses :[akka.tcp://BakerySpec3127.0.0.1:2552] [INN0] [09/29/2018 18:07:55.8661 [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses :[akka.tcp://Store3127.0.0.1:2552] [INN0] [09/29/2018 18:07:55.8661 [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses :[akka.tcp://Store3127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.8661 [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store3127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.865] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store3127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.865] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://Store3127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec2127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/29/2018 18:07:56.897] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec2127.0.0.1:2552/system/remoting-terminator] Remote daemon shut down; pro ceeding with flushing remote transports. WARNIMG: An Illegal reflective access portation has occurred WARNIMG: An Illegal reflective access portation has occurred WARNIMG: Useillegal-access-mart to enable warnings of further illegal reflective access operation will be denied in a future release [INN0] [09/2/2018 18:07:56.942] [BakerySpec-akka.remote.default-remote-dispatcher-5] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Remoting shut down [INN0] [09/29/2018 18:07:56.942] [BakerySpec-akka.actor.default-dispatcher-5] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Remoting shut down. [INN0] [09/29/2018 18:07:56.942] [BakerySpec-akka.actor.default-dispatcher-5] [akk</pre>
<pre>[INN0] [09/2/2018 18:07:55.866] [Dool-5-thread-5] [akka.remote.Remoting[*] started; listening on addresses: [akka.tcp://BakerySpec3127.0.0.1:2552] [INN0] [09/2/2018 18:07:55.8661 [Dool-5-thread-5] [akka.remote.Remoting Remoting not listens on addresses: [akka.tcp://BakerySpec3127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8661 [Dool-5-thread-5] [akka.remote.Remoting Remoting now listens on addresses: [akka.tcp://BakerySpec3127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8661 [Dool-5-thread-5] [akka.remote.Remoting Remoting now listens on addresses: [akka.tcp://BakerySpec3127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8651 [Dool-5-thread-5] [akka.remote.Remoting Remoting now listens on addresses: [akka.tcp://BakerySpec3127.0.0.1:2553] [INN0] [09/2/2018 18:07:56.353] [BakerySpec-akka.atcp:default-dispatcher-2] [akka.r/BakerySpec/user/Aa] Message [scala.Symbol] from Actor[akka://BakerySpec/system/testActor-1#1103 913486] to Actor[akka://BakerySpec/akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/2/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Remote daemon. [INN0] [09/2/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Remote daemon. [INN0] [09/2/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec3127.0.0.1:2552/system/remoting-terminator] Remote daemon shut down; pro ceeding with flushing remote transports. WARNIMG: An Illegal reflective access operation has occurred WARNIMG: An Illegal reflective access operation has occurred WARNIMG: Useillegal-access-mearn to enable warning of further illegal reflective access operations WARNIMG: Useillegal-access-mearn to enable warning of further illegal reflective access operations WARNIMG: Useillegal-access-mearn to enable warning of further illegal ref</pre>
<pre>[INP0] [09/29/2018 18:07:55.864] [Dool-5-thread-4] [akka.remote.Remoting] Remoting ister of addresses: [akka.tcp://StoreMi72.0.0.1:2553] [INP0] [09/29/2018 18:07:55.864] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://StoreMi72.0.0.1:2553] [INP0] [09/29/2018 18:07:55.865] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://StoreMi72.0.0.1:2553] [INP0] [09/29/2018 18:07:55.865] [Dool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://StoreMi72.0.0.1:2553] 913486] to Actor[akka://BakerySpec/user/Sam=tot.efspatcher-1] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcp://StoreMi72.0.0.1:2552] 913486] to Actor[akka://BakerySpec/user/Sam=tot.efspatcher-1] [akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@i72.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INP0] [09/29/2018 18:07:56.897] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@i127.0.0.1:2552/system/remoting-terminator] Remote daemon shut down; pro ceeding with flushing remote transports. WARNING: An Illegal reflective access poration has occurred WARNING: An Illegal reflective access poration has occurred WARNING: BakerySpec: not has occurred WARNING: Useillegal-access-mart to enable warnings of further illegal reflective access operations WARNING: Useillegal-access-mart no enable warnings of further illegal reflective access operations WARNING: Useillegal-access-mart to enable warnings of further illegal reflective access operations (INNO] [09/2/2018 18:07:56.5492] [BakerySpec-akka.remote.default-remote-dispatcher-5] [akka.tcp://BakerySpec@i127.0.0.1:2552/system/remoting-terminator] Remoting shut down [INNO] [09/2/2018 18:07:56.5492] [BakerySpec-akka.actor.default-dispatcher-5] [akka.tcp://BakerySpec@i127.0.0.1:2552/system/remoting-terminator] Remoting shut down. [INNO] [09/2/2018 18:07:56.5492] [BakerySpec-akka.actor.default-dispatcher-5] [akka.tcp://Bakery</pre>
<pre>[INN0] [09/2/2018 18:07:55.864] [pool-5-thread-5] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcr://BakerySpec@127.0.0.1:2552] [INN0] [09/2/2018 18:07:55.8656] [pool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcr://StakerySpec@127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8656] [pool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcr://StakerySpec@127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8656] [pool-5-thread-4] [akka.remote.Remoting] Remoting now listens on addresses: [akka.tcr:/Staka.tcr:/Aska./AskarySpec@127.0.0.1:2553] [INN0] [09/2/2018 18:07:55.8651 [BakerySpec-akka.remote.default-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/2/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INN0] [09/2/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remote daemon shut down; pro ceeding with flushing remote transports. WARNING: An Illegal reflective access operation has occurred WARNING: An Illegal reflective access operation has occurred WARNING: an Illegal reflective access operation has occurred WARNING: Useillegal-access=warn to enable warnings of further illegal reflective access operations WARNING: Useillegal-access=marn to enable warnings of further illegal reflective access operations WARNING: Useillegal-access=marn to enable warnings of further illegal reflective access operations WARNING: Useillegal-access=warn to enable din a future release [INN0] [09/2/2018 18:07:56.944] [BakerySpec-akka.remote.default-dispatcher-4] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remoting shut down [INN0] [09/2/2018 18:07:56.944] [BakerySpec-akka.remote.default-dispatcher-5] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-termi</pre>
<pre>[INN0] [09/29/2018 18:07:55.865] [pool-5-thread-4] [akka.remote.Remoting now listens on addresses: [akka.tcp://Store%127.0.0.1:2553] [INN0] [09/29/2018 18:07:55.853] [backroySpec-akka.aremote.Remoting] Remoting now listens on addresses: [akka.tcp://Store%127.0.0.1:2553] 913486] to Actor[akka://BakerySpec/user/SaH=184815196] was not delivered. [1] dead letters encountered. If this is not an expected behavior, then [Actor[akka://BakerySpec/user/SaH= 18148155196] may have terminated unexpectedly. This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log-dead'</pre>
<pre>[INPO] [09/2/2018 18:07:56.335] [bakerySpec-akka.actor.default-dispatcher-2] [akka:/fbakerySpec/user/Sal Message [scala.symbol] from Actor[akka://bakerySpec/system/testAtor-1#1163 913466] to Actor[akka://bakerySpec/user/Sal=1314631056] was not delivered. [1] dead letters encountered. If this is not an expected behavior, then [Actor[akka://bakerySpec/system/testAterySpec/system/te</pre>
913485 to Actor[akka://BakerySpec/user/Sam-1814815196] was not delivered. [1] dead letters' encountered. If this is not an 'expected behavior, then [Actor[akka://BakerySpec/user/Sam- 18148155196] may have terminated unexpectedly. This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log''''''''''''''''''''''''''''''''''''
<pre>13143[3596]] may have terminated unexpectedly. This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.remote.deamon.lighted' and 'latter' and 'latter''latter''latter''latter''latter'</pre>
<pre>om.'. [INF0] [09/29/2018 18:07:56.895] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Shutting down remote daemon. [INF0] [09/29/2018 18:07:56.897] [BakerySpec-akka.remote.default-remote-dispatcher-13] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remote daemon shut down; pro ceeding with flushing remote transports. WARNING: An Illegal reflective access operation has occurred WARNING: Hegal reflective access by org.jboss.netty.util.internal.ByteBufferUtil (file:/Users/slasch/.ivy2/cache/io.netty/netty/bundles/netty-3.10.6.Final.jar) to method java.nio. DirectByteBuffer.cleaner() WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warning of further illegal access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warnings of further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warning to further illegal reflective access operations WARNING: Useiillegal-access-warn to enable warning to the state5 [akka.tcp://BakerySpec@l27.0.0.1:2552/system/remoting-terminator] Remoting shut</pre>
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<pre>WARKING: Itlegal reflective access by org.jboss.netty.util.internal.ByteBufferUtil (file:/Users/slasch/.ivy2/cache/io.netty/netty/bundles/netty-3.18.6.Final.jar) to method java.nio. DirectByteBuffer.cleaner() WARKING: Please consider reporting this to the maintainers of org.jboss.netty.util.internal.ByteBufferUtil WARKING: Use</pre>
DirectByteBuffer.cleaner() WARNIMG: Useillegal-access-warn to enable warnings of further illegal reflective access operations WARNIMG: Useillegal-access-warn to enable warnings of further illegal reflective access operations WARNIMG: Ullegal access-warn to enable warnings of further illegal reflective access operations WARNIMG: Ullegal access-warn to enable warnings of further illegal reflective access operations (INNO] (99/29/2018 18:07:56.942] [BakerySpec-akka.actor.default-dispatcher-4] [akka.remote.Remoting] Remoting shut down [InNO] [BakerySpec: [info] The by should [info] - should fignore other message types [info] The baker should [info] The baker should [info] The baker should bake cookies in batches
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<pre>WARRING: All illegal access operations will be denied in a future release [INF0] (69/29/2018 18:07:56.942] [BakerySpec-akka.accn.default-dispatcher4] [akka.remote.Remoting] Remoting shut down [INF0] [BakerySpec: Linfo] Ib BakerySpec: Linfo] The boy should [Info] - should forward given ShoppingList to the seller [Info] The baker should [Info] The baker should [Info] The baker should Bake cookies in batches</pre>
[INP0] [09/29/2018 18:07:56.942] [BakerySpec-akka.actor.default-dispatcher-4] [akka.remote.Remoting] Remoting shut down [InP0] [09/29/2018 18:07:56.942] [BakerySpec-akka.actor.default-remote-dispatcher-5] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remoting shut down. [info] The boy should [info] - should forward given ShoppingList to the seller [info] - should ignore other message types [info] The baker should [info] The baker should bake cookies in batches
<pre>[INF0] [09/27/2018 18:07:56.944] [BakerySpec-akka.remote.default-remote-dispatcher-5] [akka.tcp://BakerySpec@127.0.0.1:2552/system/remoting-terminator] Remoting shut down. [info] The boy should [info] - should forward given ShoppingList to the seller [info] - hould ignore other message types [info] The baker should</pre>
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[info] - should forward given ShoppingList to the seller [info] - should ignore other message types [info] The baker should [info] - should bake cookies in batches
[info] - should ignore other message types [info] The baker should [info] - should bake cookies in batches
[info] The baker should [info] - should bake cookies in batches
[info] - should bake cookies in batches
[INFO] [09/29/2018 18:07:59.328] [Store-akka.remote.default-remote-dispatcher-15] [akka.tcp://Store@127.0.0.1:2553/system/remoting-terminator] Shutting down remote daemon.
[INFO] [09/29/2018 18:07:59.329] [Store-akka.remote.default-remote-dispatcher-15] [akka.tcp://Store@127.0.0.1:2553/system/remoting-terminator] Remote daemon shut down; proceeding wi
th flushing remote transports.
[INFO] [09/29/2018 18:07:59.334] [Store-akka.actor.default-dispatcher-6] [akka.remote.Remoting] Remoting shut down
[info] StoreSpec:
[info] A seller in store
[info] - should do nothing for all unexpected message types
[info] - should return groceries if given a shopping list
[info] Run completed in 4 seconds, 768 milliseconds.
[info] Total number of tests run: 5
Infol Suites: completed 2. aborted 0
[info] Tests: succeeded 5, failed 0, canceled 0, ignored 0, pending 0
[info] All tests passed.
[success] Total time: 8 s, completed 29 Sep 2018, 18:07:59
SBT is ready for the next command

 sbt:akka-bakery> run
 Enter "run" command

 [warn] Multiple main classes detected. Run 'show discoveredMainClasses' to see the list
 Multiple main classes detected, select one to run:

 [1] ch11.Bakery
 [2] ch11.Store
 [info] Packaging /Users/slasch/code/Learn-Scala---Fundamentals-of-Scala-2.13/ch11/target/scala-2.12/akka-bakery_2.12-1.0.jar ...

 [info] Done packaging.
 Enter number:
 Choose one of the two main classes

<pre>>>> slasch void:~/code/Learn-ScalaFundamentals-of-Scala-2.13/ch07 [master]\$ sbt</pre>
WARNING: AN Ittegat reflective access operation has occurred WARNING: Illegat reflective access by sbt.ivyint.ErrorMessageAuthenticator\$ (file:/Users/slasch/.sbt/boot/scala-2.10.7/org.scala-sbt/sb t/0.13.17/ivy-0.13.17.jar) to field java.net.Authenticator.theAuthenticator
WARNING: Please consider reporting this to the maintainers of sbt.ivyint.ErrorMessageAuthenticator\$ WARNING: Useillegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release [info] Loading project definition from /Users/slasch/code/Learn-ScalaFundamentals-of-Scala-2.13/ch07/project
[info] Set current project to ch07 (in build file:/Users/slasch/code/Learn-ScalaFundamentals-of-Scala-2.13/ch07/) [info] Found 1 dependency update for ch07 [info] Found 1 dependency update 1 do 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
[info] org.scala-lang:scala-library : 2.13.0-M4 → 2.13.0-M5 [success] Total time: 1 s, completed 29 Sep 2018, 18:18:16 [Ch07]) 梦 master ✔
<pre>Start REPL [info] Compiling 6 Scala sources to /Users/slasch/code/Learn-ScalaFundamentals-of-Scala-2.13/ch07/target/scala-2.13.0-M4/classes</pre>
[info] Starting scala interpreter [info]
Welcome to Scala 2.13.0-M4 (OpenJDK 64-Bit Server VM, Java 11). Type in expressions for evaluation. Or try :help.
scala> org.scalacheck.Gen.posNum[Long].sample <
scala> :q 🚽 Exit REPL
[success] Total time: 19 s, completed 29 Sep 2018, 18:18:39 [ch07]▶ ⊉ master ✔
>>> Next command