

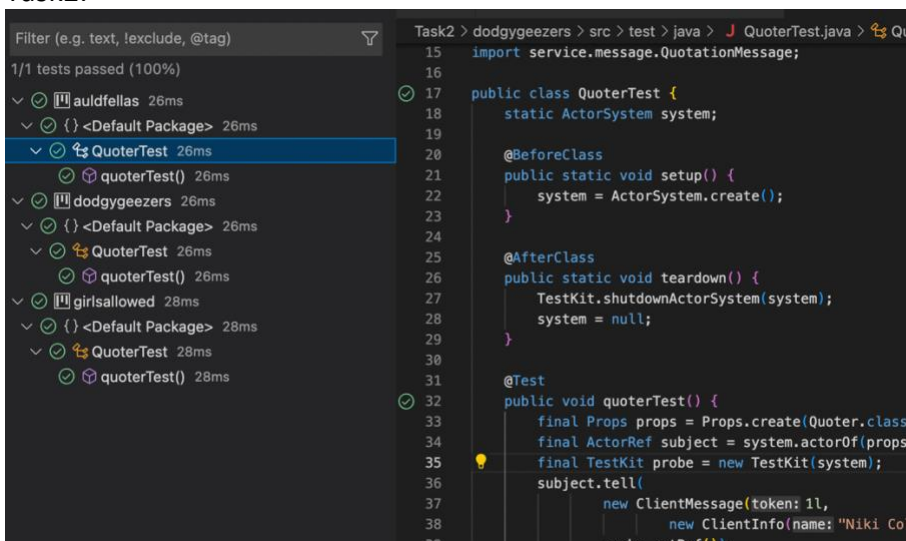
Lab 6: Actor-based Distribution

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Task1:

```
[INFO] --- maven-jar-plugin:2.4:jar (default-jar) @ core ---
[INFO] Building jar: /Users/dawidskraba/Desktop/UCD/Distributed_Sys/Week6/Lab6/lifeco-
Task1/core/target/core-0.0.1.jar
[INFO] --- maven-install-plugin:2.4:install (default-install) @ core ---
[INFO] Installing /Users/dawidskraba/Desktop/UCD/Distributed_Sys/Week6/Lab6/lifeco-
k1/core/target/core-0.0.1.jar to /Users/dawidskraba/.m2/repository/lifeco-akka/core-0.0.1.jar
[INFO] Installing /Users/dawidskraba/Desktop/UCD/Distributed_Sys/Week6/Lab6/lifeco-
k1/core/pom.xml to /Users/dawidskraba/.m2/repository/lifeco-akka/core/0.0.1/core-0.0.1
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.911 s
[INFO] Finished at: 2023-04-12T18:50:13+01:00
[INFO] -----
(home) dawidskraba@dawidskraba: ~$ Task1 %
```

Task2:



The screenshot shows the IntelliJ IDEA interface. On the left, the 'Run' tool window displays test results for 'QuoterTest' with a success status and a duration of 26ms. The main editor shows the source code of 'QuoterTest.java' in the 'dodgygeezers' package. The code includes imports for 'QuotationMessage', 'ActorSystem', and 'TestKit'. It defines a 'QuoterTest' class with a static 'ActorSystem' instance, a '@BeforeClass' setup method, a '@AfterClass' teardown method, and a '@Test' method 'quoterTest()' that creates a 'Quoter' actor and sends a 'ClientMessage' to it.

Task3:

```
=====
T E S T S
=====
Running BrokerTest
Actor[akka://default/user/TEST-QUOTER#-1218081790] registered. 1 services available
Running BrokerTest
Client: 0 Started.
Info: Niki Collier
Size of quotation cache:0
Client: 0 Finished.
Actor[akka://default/user/TEST-QUOTER#1535645141] registered. 1 services available
```

Task4:

```
[INFO] --- exec-maven-plugin:1.0.0:java (default-cli) @ client ---
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
SLF4J: Failed to load class "org.slf4j.impl.StaticMDCBinder".
SLF4J: Defaulting to no-operation MDCAdapter implementation.
SLF4J: See http://www.slf4j.org/codes.html#no_static_mdc_binder for further details.
Client initialized with ref: Actor[akka://default/user/client#-1366627520]
```

Name: Old Geeza Weight/Height: 100.0kg/1.6m	Gender: Male Smoker: YES	Age: 65 Medical Problems: YES
Company: Dodgy Geezers Corp.	Reference: DG001001	Price: €675.75
Company: Girls Allowed Inc.	Reference: GA001001	Price: €1,497.30
Company: Auld Fellas Ltd.	Reference: AF001001	Price: €573.00
Name: Niki Collier Weight/Height: 80.0kg/1.5494m	Gender: Female Smoker: NO	Age: 49 Medical Problems: NO
Company: Dodgy Geezers Corp.	Reference: DG001000	Price: €736.10
Company: Girls Allowed Inc.	Reference: GA001000	Price: €571.20
Company: Auld Fellas Ltd.	Reference: AF001000	Price: €805.20
Name: Hannah Montana Weight/Height: 65.0kg/1.78m	Gender: Female Smoker: NO	Age: 21 Medical Problems: NO
Company: Dodgy Geezers Corp.	Reference: DG001002	Price: €784.70
Company: Girls Allowed Inc.	Reference: GA001002	Price: €391.20
Company: Auld Fellas Ltd.	Reference: AF001002	Price: €961.20

Task5:

```
task5-dodgygeezers-1 Dodgygeezers initialized with ref = Actor[akka://default/user/dodgygeezers#2125607209]
task5-broker-1 Actor[akka.tcp://default@auldfellas:2551/user/auldfellas#-1482870058] registered. 1 services available
task5-broker-1 Actor[akka.tcp://default@dodgygeezers:2553/user/dodgygeezers#2125607209] registered. 2 services available
task5-client-1 Actor[akka.tcp://default@girlsallowed:2552/user/girlsallowed#1780199270] registered. 3 services available
task5-client-1 Client initialized with ref: Actor[akka://default/user/client#1823562816]
```

Name: Niki Collier Weight/Height: 80.0kg/1.5494m	Gender: Female Smoker: NO	Age: 49 Medical Problems: NO
Company: Dodgy Geezers Corp.	Reference: DG001000	Price: \$797.30
Company: Auld Fellas Ltd.	Reference: AF001000	Price: \$1,098.00
Company: Girls Allowed Inc.	Reference: GA001000	Price: \$480.90
Name: Hannah Montana Weight/Height: 65.0kg/1.78m	Gender: Female Smoker: NO	Age: 21 Medical Problems: NO
Company: Auld Fellas Ltd.	Reference: AF001002	Price: \$1,252.80
Company: Dodgy Geezers Corp.	Reference: DG001002	Price: \$831.25
Company: Girls Allowed Inc.	Reference: GA001002	Price: \$268.40
Name: Old Geeza Weight/Height: 100.0kg/1.6m	Gender: Male Smoker: YES	Age: 65 Medical Problems: YES

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