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**Professor of Computer Science** 

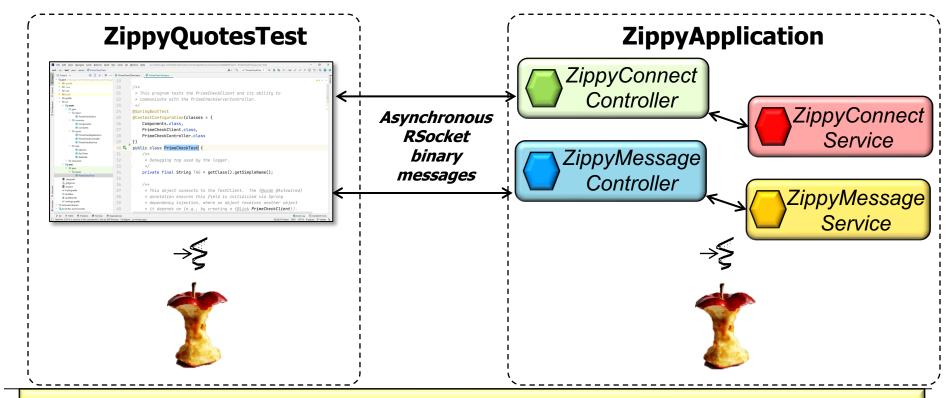
**Institute for Software Integrated Systems** 

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### Learning Objectives in this Lesson

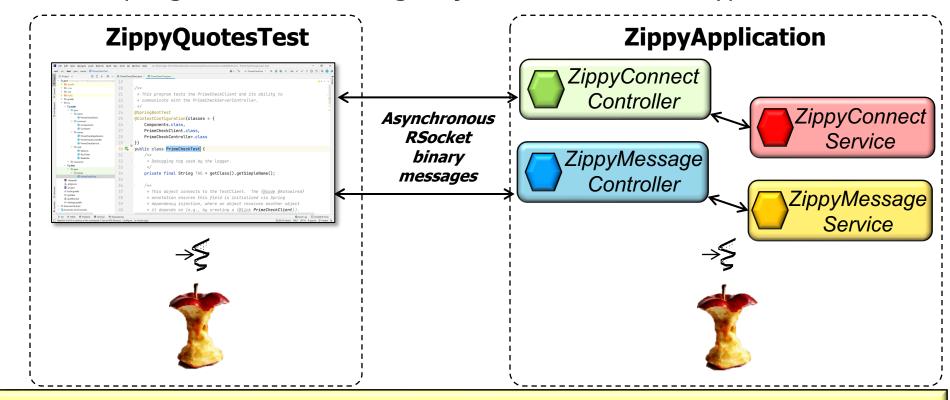
 Understand how RSocket can exchange binary messages asynchronously to/ from a Spring microservice using Project Reactor reactive types



See github.com/douglascraigschmidt/LiveLessons/tree/master/RSocket/ex1

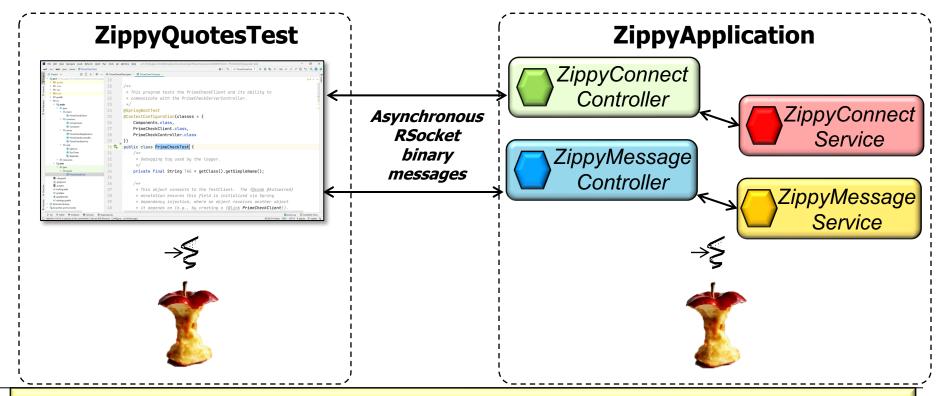
### Learning Objectives in this Lesson

 Understand how RSocket can exchange binary messages asynchronously to/ from a Spring microservice using Project Reactor reactive types



This example also shows how to use RSocket security & authentication features

 This case study shows how an RSocket client can exchange binary messages asynchronously with the ZippyApplication microservice



See github.com/douglascraigschmidt/LiveLessons/tree/master/RSocket/ex1

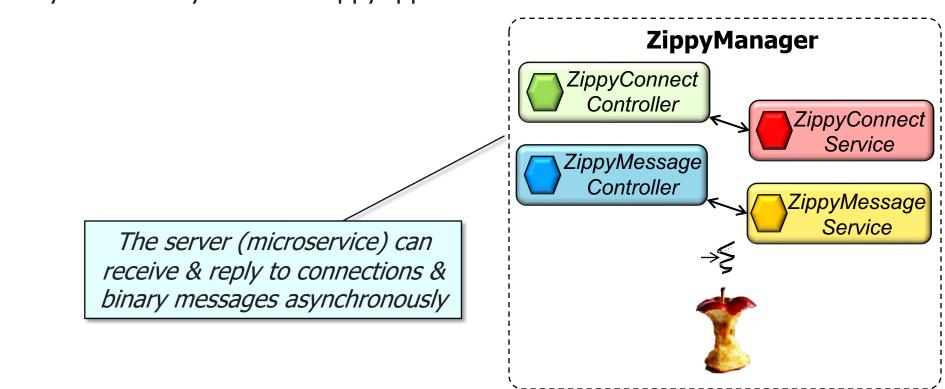
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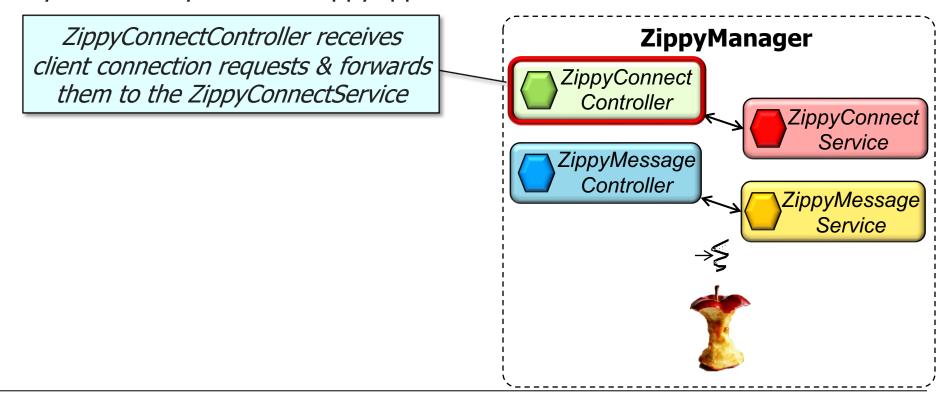
The client can asynchronously connect to the server & send/receive binary messages via the Spring RSocket APIs

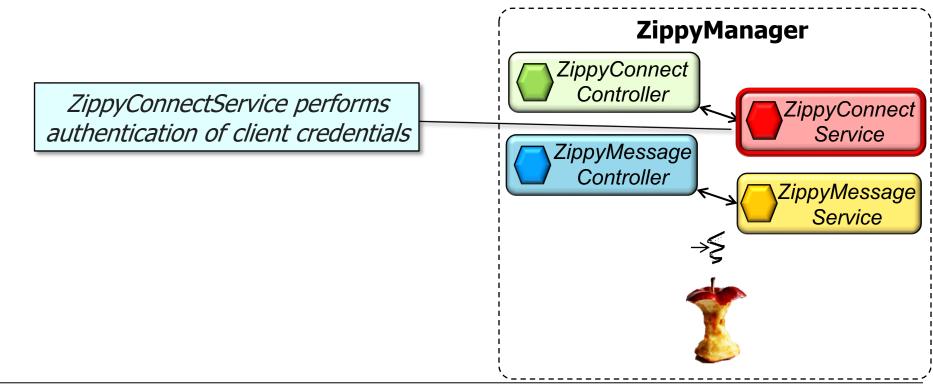
The client also authenticates itself to the server

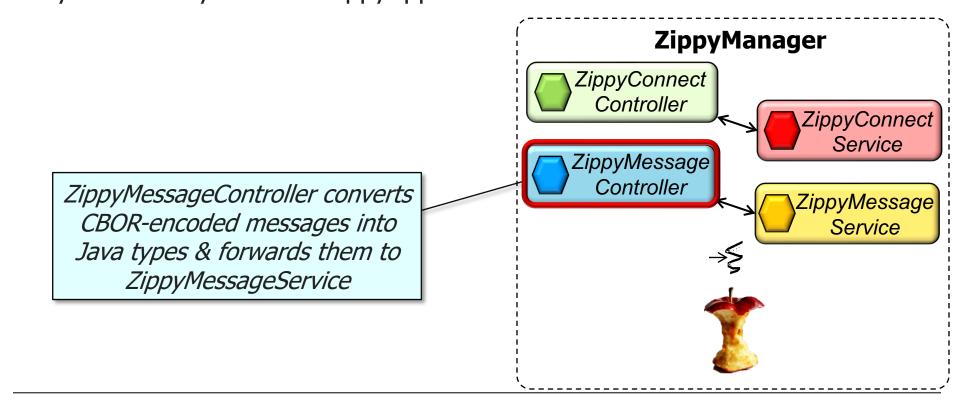
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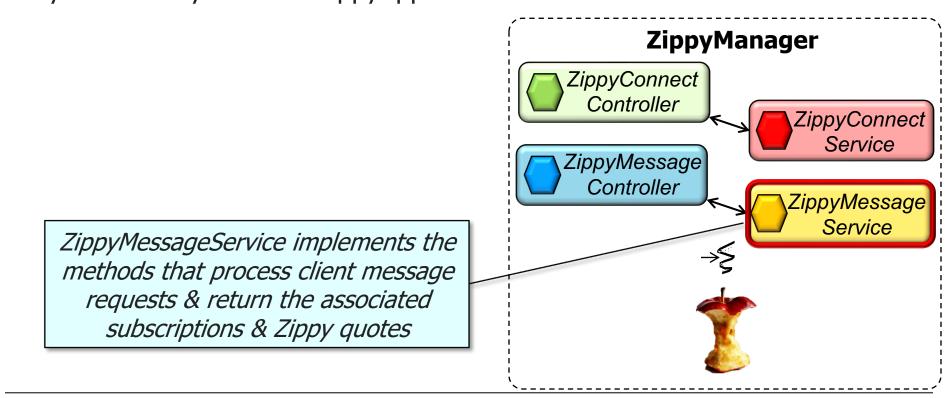


The server also requires the client to authentic itself before finalizing the connection

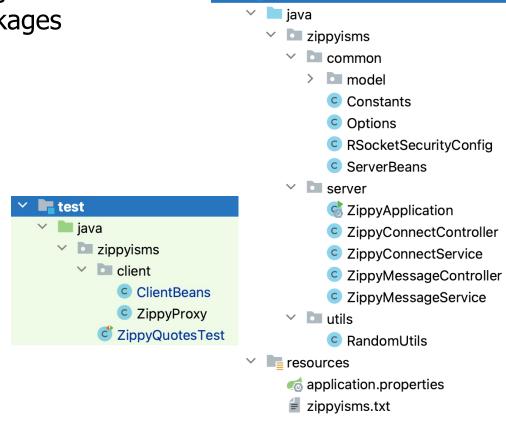








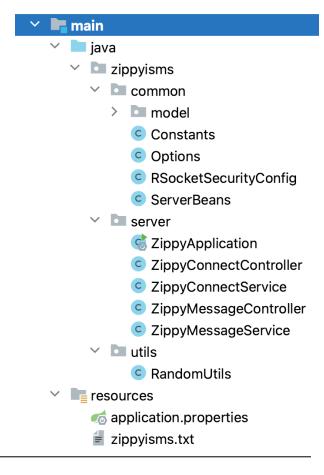
 The RSocket ZippyQuotes App project source code is organized into several packages



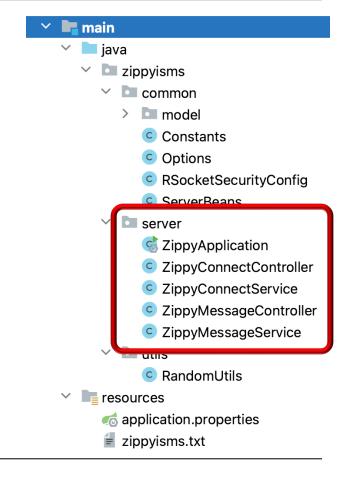
🚾 main

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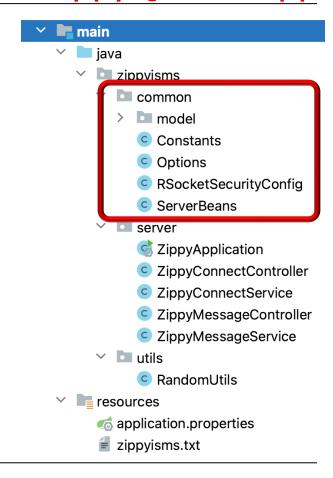
- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes



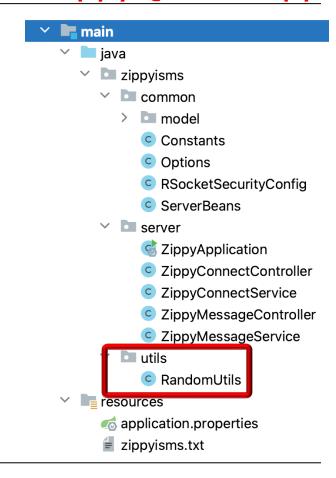
- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
    - server
      - The Application, Controller, & Service classes that enable message reception & responses



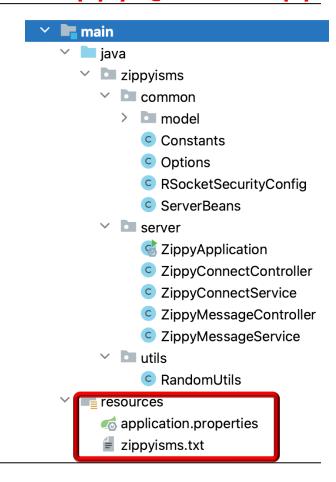
- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
    - server
    - common
      - The project-specific reusable classes, including a security module



- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
    - server
    - common
    - utils
      - The project-independent reusable classes



- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
    - server
    - common
    - utils
    - resources
      - The server name, port number, & Zippy quotes



- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
  - The test folder contains the client-side classes



- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
  - The test folder contains the client-side classes
    - client
      - The proxies & client bean that establishes a secure connection with the server



- The RSocket ZippyQuotes App project source code is organized into several packages
  - The src folder contains the server-side classes
  - The test folder contains the client-side classes
    - client
      - The proxies & client beans
      - The test driver that connects with the server & exchanges messages

