

# The BerraQuotes App Case Study: Implementing the Client

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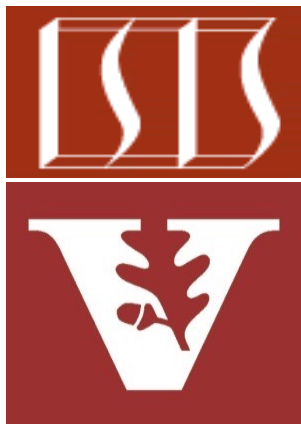
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# Learning Objectives in this Part of the Lesson

- Understand the implementation of the BerraQuotesClient that sends/receives HTTP GET requests/responses to/from the BerraQuotesApplication microservice

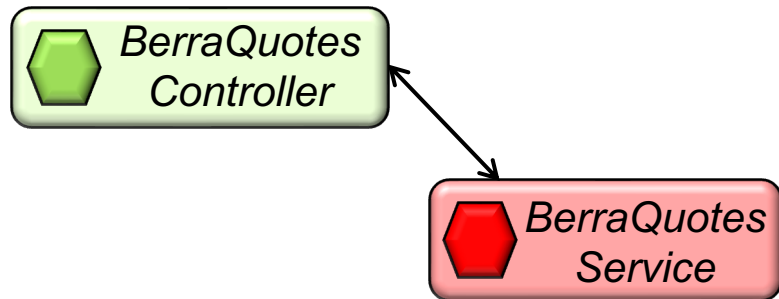
## BerraQuotesTest

```
19
20
21 // * This program tests the PrimeCheckClient and its ability to
22 // * communicate with the PrimeCheckServerController.
23 // *
24 // *
25 @SpringBootTest
26 @ContextConfiguration(classes = {
27     Components.class,
28     PrimeCheckClient.class,
29     PrimeCheckController.class
30 })
31 public class PrimeCheckTest {
32     // *
33     // * Debugging tag used by the logger.
34     // *
35     private final String TAG = getClass().getSimpleName();
36
37     // *
38     // * This object connects to the TestClient. The @Code @Autowired
39     // * annotation ensures this field is initialized via Spring
40     // * dependency injection, where an object receives another object
41     // * it depends on (e.g., by creating a @Link PrimeCheckClient);
```



*HTTP GET  
requests/  
responses*

## BerraQuotesApplication



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# Implementing the BerraQuotesClient

# Implementing the BerraQuotesClient

```
ex2 - BerraQuotesClient.java [ex2.test]
ex2 > src > test > java > berraquotes > client > BerraQuotesClient

Project
  ex2
  .gradle
  .idea
  .run
  admin
  build
  gradle
  main
    java
      berraquotes
        BerraQuotesApplication
        BerraQuotesController
        BerraQuotesService
        Components
        Constants
        Quote
  resources
  test
    java
      berraquotes
        client
          BerraQuotesClient
          BerraQuotesProxy
        utils
          RandomUtils
          WebUtils
          BerraQuotesTest
  style
  .classpath
  .gitignore
  .gitlab-ci.yml

Database
Gradle
Notifications

@Component
public class BerraQuotesClient {
    /**
     * This auto-wired field connects the {@link BerraQuotesClient} to the
     * {@link BerraQuotesProxy} that performs HTTP requests synchronously.
     */
    @Autowired
    private BerraQuotesProxy mQuoteProxy;

    /**
     * Get a {@link List} that contains the requested quotes.
     *
     * @param quoteIds A {@link List} containing the given
     *                 {@code quoteIds}
     * @return An {@link List} containing the requested {@link
     *         Quote} objects
     */
    public List<Quote> getQuotes(List<Integer> quoteIds) {
        return mQuoteProxy
    }
}
```

See [github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex2](https://github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex2)

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# End of the BerraQuotes App Case Study: Implementing the Client