

The PrimeCheckApp Case Study: Test Driver Implementation & Performance

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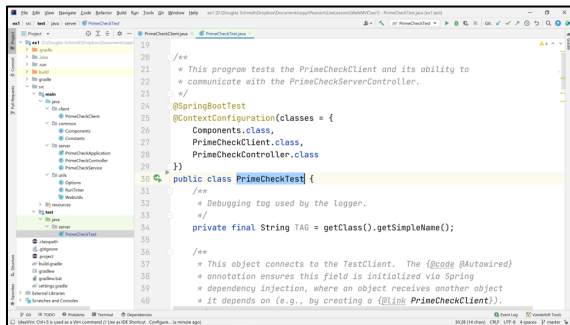
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Learning Objectives in this Part of the Lesson

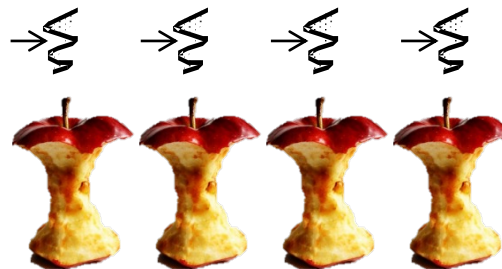
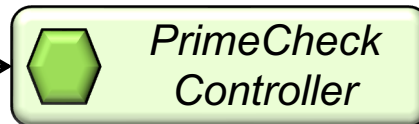
- Understand the implementation of a driver program that runs the PrimeCheck Client & measures the performance of its various methods

PrimeCheckTest



*HTTP GET
requests/
responses*

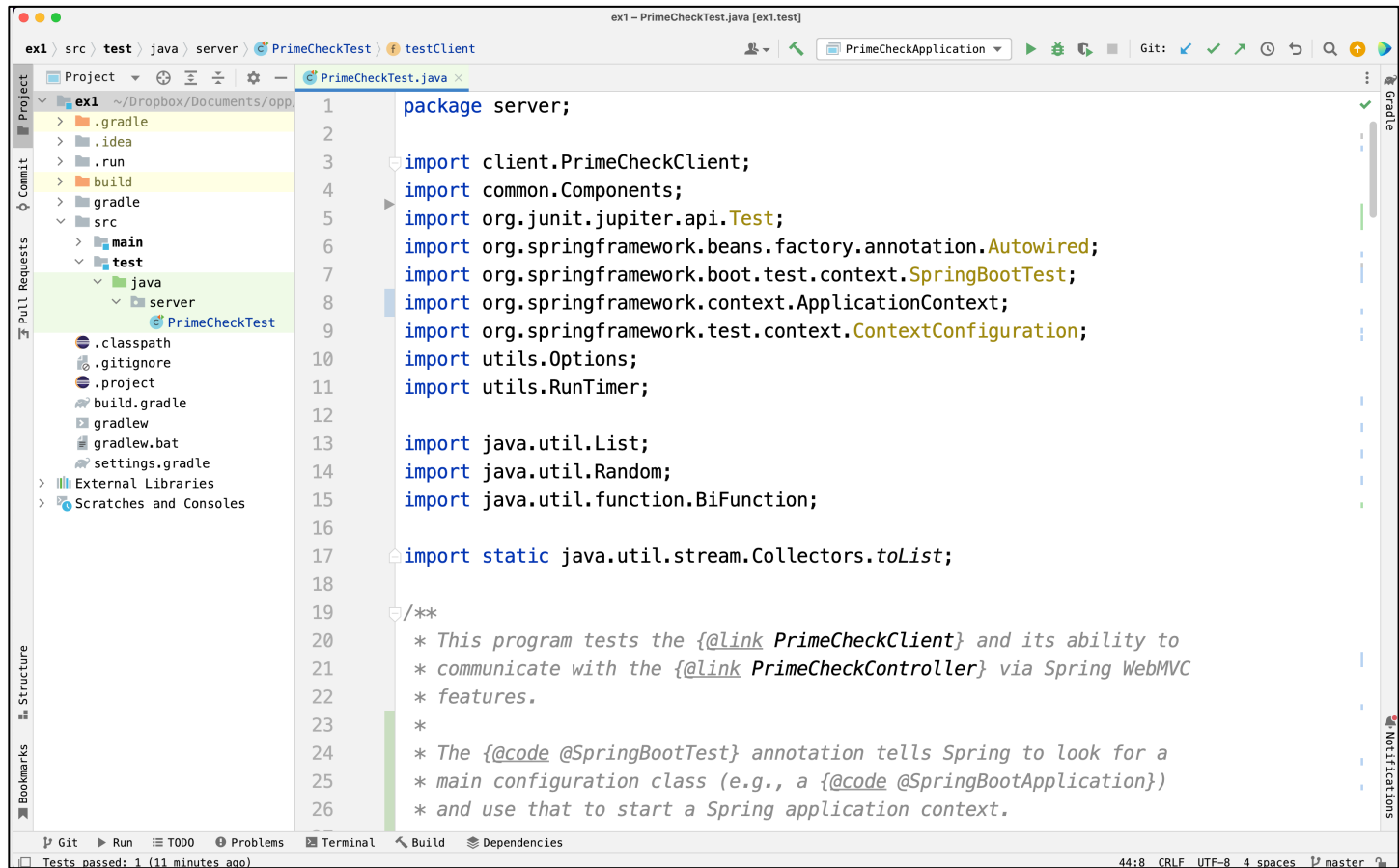
PrimeCheckApp



See github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex1

Implementing the PrimeCheckTest Driver

Implementing the PrimeCheckTest Driver



```
ex1 - PrimeCheckTest.java [ex1.test]
ex1 | src | test | java | server | PrimeCheckTest | testClient
Project | Commit | Pull Requests | Bookmarks | Structure |
ex1 | ~\Dropbox\Documents\opp... |
> .gradle
> .idea
> .run
> build
> gradle
> src
  > main
    > test
      > java
        > server
          PrimeCheckTest
      .classpath
      .gitignore
      .project
      build.gradle
      gradlew
      gradlew.bat
      settings.gradle
    > External Libraries
    > Scratches and Consoles
1 package server;
2
3 import client.PrimeCheckClient;
4 import common.Components;
5 import org.junit.jupiter.api.Test;
6 import org.springframework.beans.factory.annotation.Autowired;
7 import org.springframework.boot.test.context.SpringBootTest;
8 import org.springframework.context.ApplicationContext;
9 import org.springframework.test.context.ContextConfiguration;
10 import utils.Options;
11 import utils.RunTimer;
12
13 import java.util.List;
14 import java.util.Random;
15 import java.util.function.BiFunction;
16
17 import static java.util.stream.Collectors.toList;
18
19 /**
20  * This program tests the {@link PrimeCheckClient} and its ability to
21  * communicate with the {@link PrimeCheckController} via Spring WebMVC
22  * features.
23  *
24  * The {@code @SpringBootTest} annotation tells Spring to look for a
25  * main configuration class (e.g., a {@code @SpringBootApplication})
26  * and use that to start a Spring application context.
```

Git Run TODO Problems Terminal Build Dependencies

Tests passed: 1 (11 minutes ago) 44:8 CRLF UTF-8 4 spaces master

See github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex1

End of the PrimeCheck App Case Study: Test Driver