

The MathServices App Case Study: Test Driver Implementation & Performance

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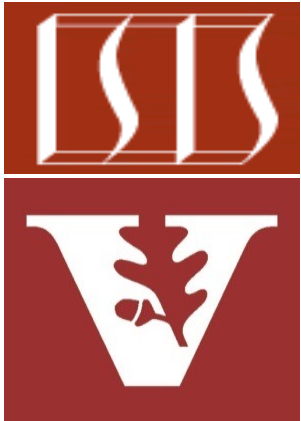
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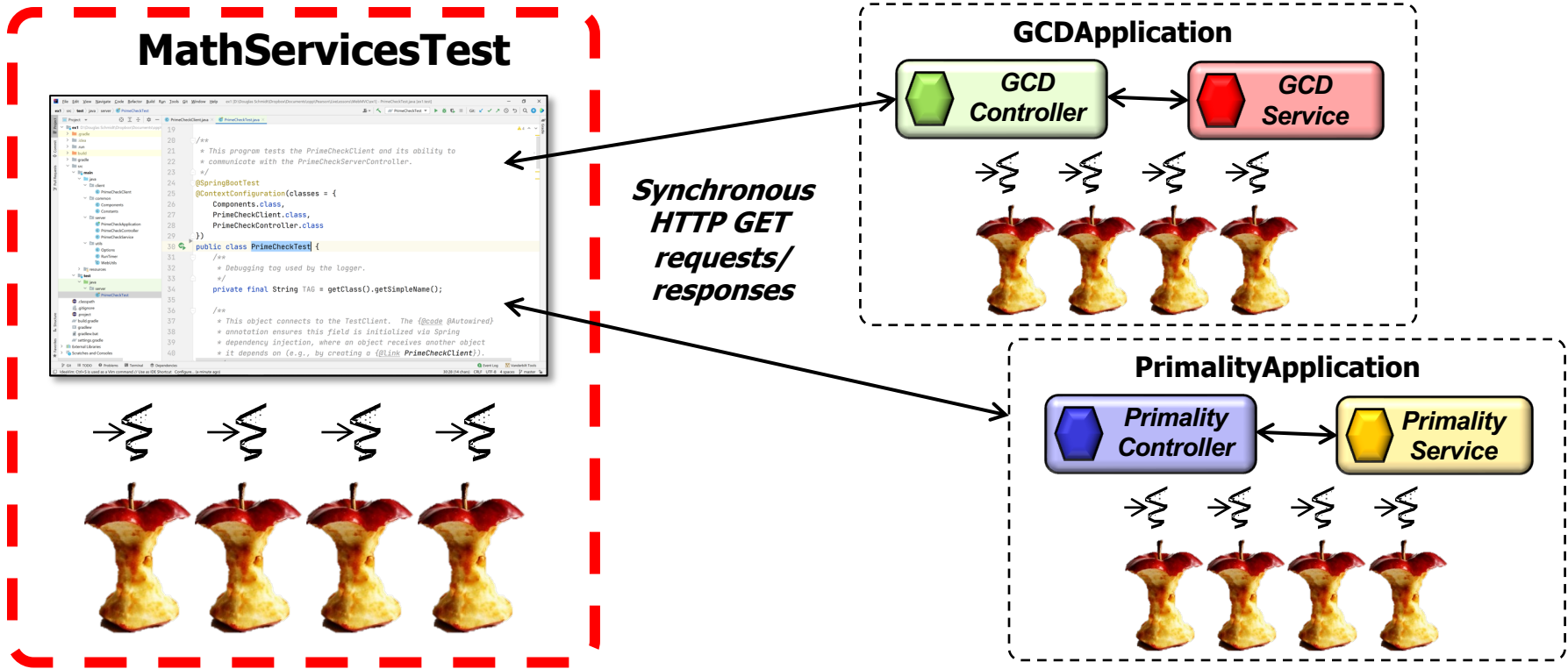
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Learning Objectives in this Part of the Lesson

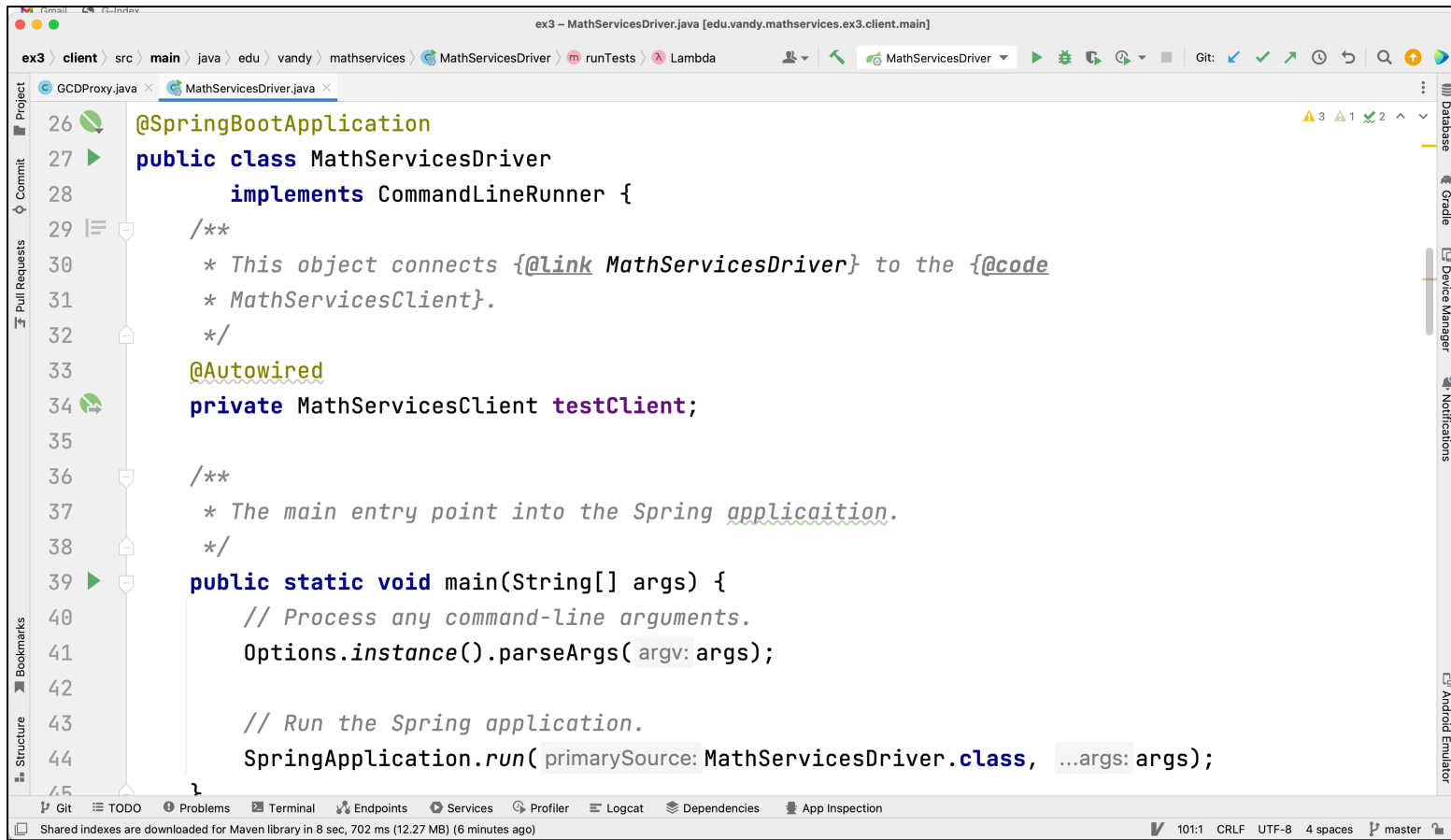
- Understand the test driver that call the methods in the MathServicesClient class to communicate with the microservices & then prints the results they return



This test driver applies the Java StructuredTaskScope concurrency model

Implementing the MathServicesTest Driver

Implementing the MathServicesTest Driver



The screenshot shows an IDE window titled "ex3 - MathServicesDriver.java [edu.vandy.mathservices.ex3.client.main]". The code is as follows:

```
26 @SpringBootApplication
27 public class MathServicesDriver
28     implements CommandLineRunner {
29     /**
30      * This object connects {@link MathServicesDriver} to the {@code
31      * MathServicesClient}.
32      */
33     @Autowired
34     private MathServicesClient testClient;
35
36     /**
37      * The main entry point into the Spring application.
38      */
39     public static void main(String[] args) {
40         // Process any command-line arguments.
41         Options.instance().parseArgs(argv: args);
42
43         // Run the Spring application.
44         SpringApplication.run(primarySource: MathServicesDriver.class, ...args: args);
45     }
```

The IDE interface includes a sidebar on the left with "Project", "Commit", "Pull Requests", and "Bookmarks" sections. On the right, there are panels for "Database", "Gradle", "Device Manager", "Notifications", and "Android Emulator". The bottom status bar shows "101:1 CRLF UTF-8 4 spaces master" and a message: "Shared indexes are downloaded for Maven library in 8 sec, 702 ms (12.27 MB) (6 minutes ago)".

See github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex3

End of the MathServices App Case Study: Test Driver Implementation