

The LockManager App Case Study: Implementing the Server Components

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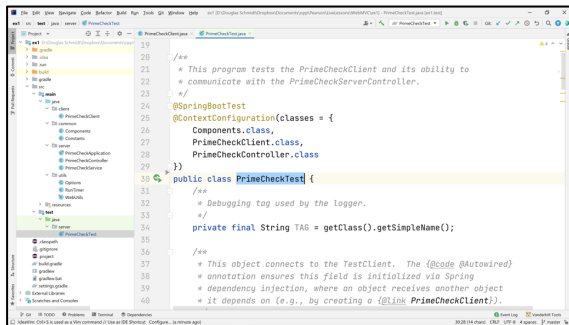
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Learning Objectives in this Part of the Lesson

- Understand the implementation of the LockManagerController & LockManagerService classes in the LockManagerApplication microservice

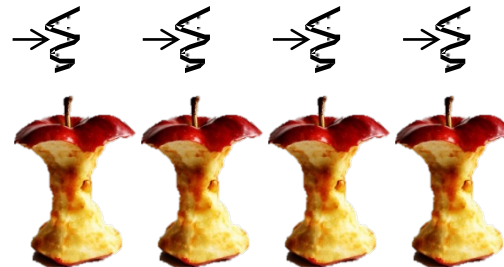
LockManagerTest



LockManagerApplication



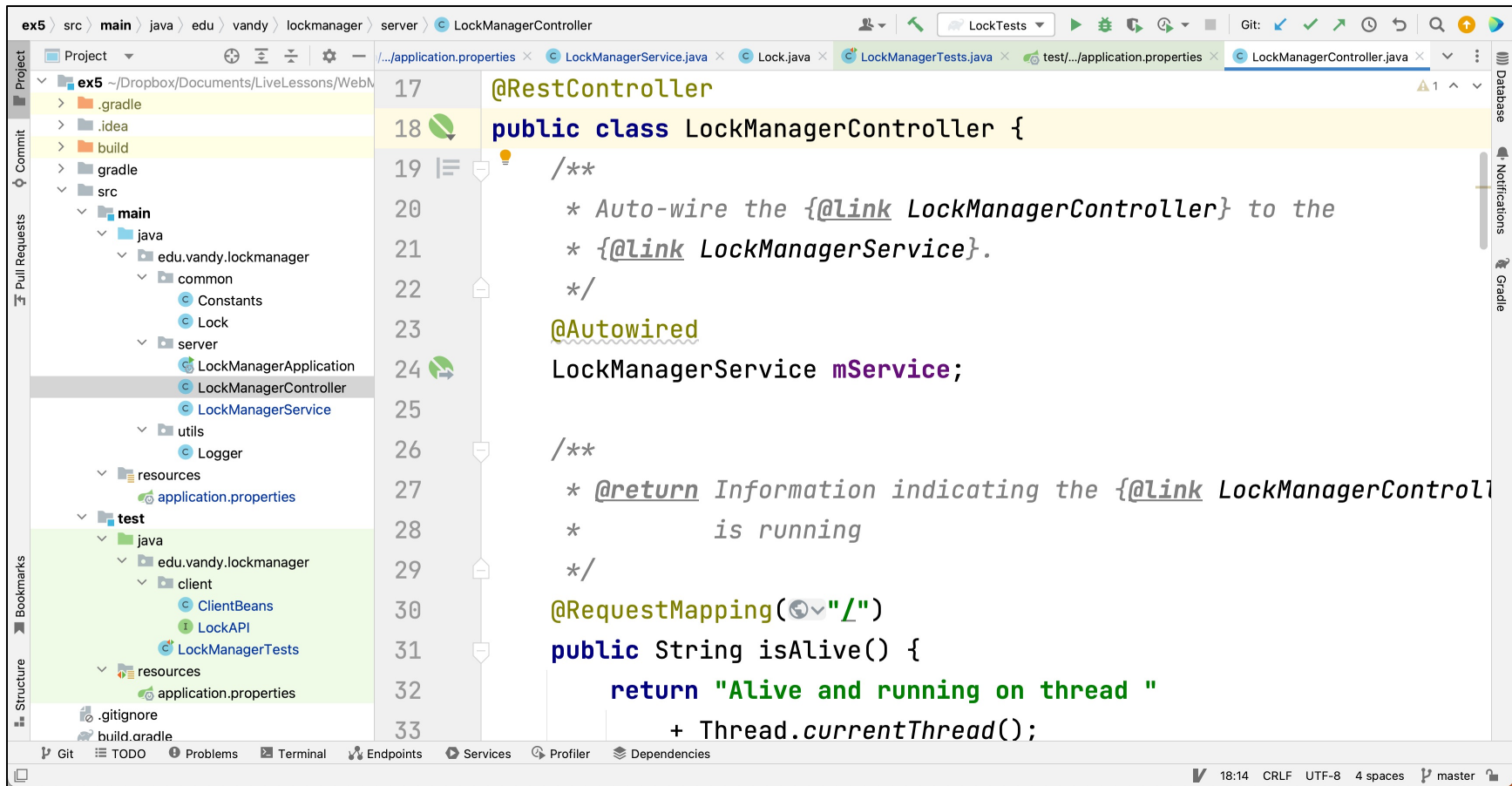
*Synchronous
HTTP GET/POST
requests/
responses*



See github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex5

Implementing the LockManager App Server

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The screenshot shows an IDE with the following components:

- Project Explorer (Left):** Displays the project structure. The path `src/main/java/edu/vandy/lockmanager/server` is selected, showing files like `LockManagerApplication`, `LockManagerController`, `LockManagerService`, and `utils`.
- Code Editor (Center):** Shows the implementation of `LockManagerController`. The code is as follows:

```
17 @RestController
18 public class LockManagerController {
19     /**
20      * Auto-wire the {@link LockManagerController} to the
21      * {@link LockManagerService}.
22      */
23     @Autowired
24     LockManagerService mService;
25
26     /**
27      * @return Information indicating the {@link LockManagerController}
28      *         is running
29      */
30     @RequestMapping("/")
31     public String isAlive() {
32         return "Alive and running on thread "
33             + Thread.currentThread();
34     }
35 }
```
- Right Sidebar:** Contains tabs for `Database`, `Notifications`, and `Grade`.
- Bottom Panel:** Includes tabs for `Git`, `TODO`, `Problems`, `Terminal`, `Endpoints`, `Services`, `Profiler`, and `Dependencies`. The status bar at the bottom right shows `18:14`, `CRLF`, `UTF-8`, `4 spaces`, and `master`.

See [WebMVC/ex5/src/main/java/edu/vandy/lockmanager/server](https://webmvc.org/ex5/src/main/java/edu/vandy/lockmanager/server)

End of the LockManager App Case Study: Implementing the Server Components