

The QuoteServices App Case Study: Implementing the Zippy Microservice

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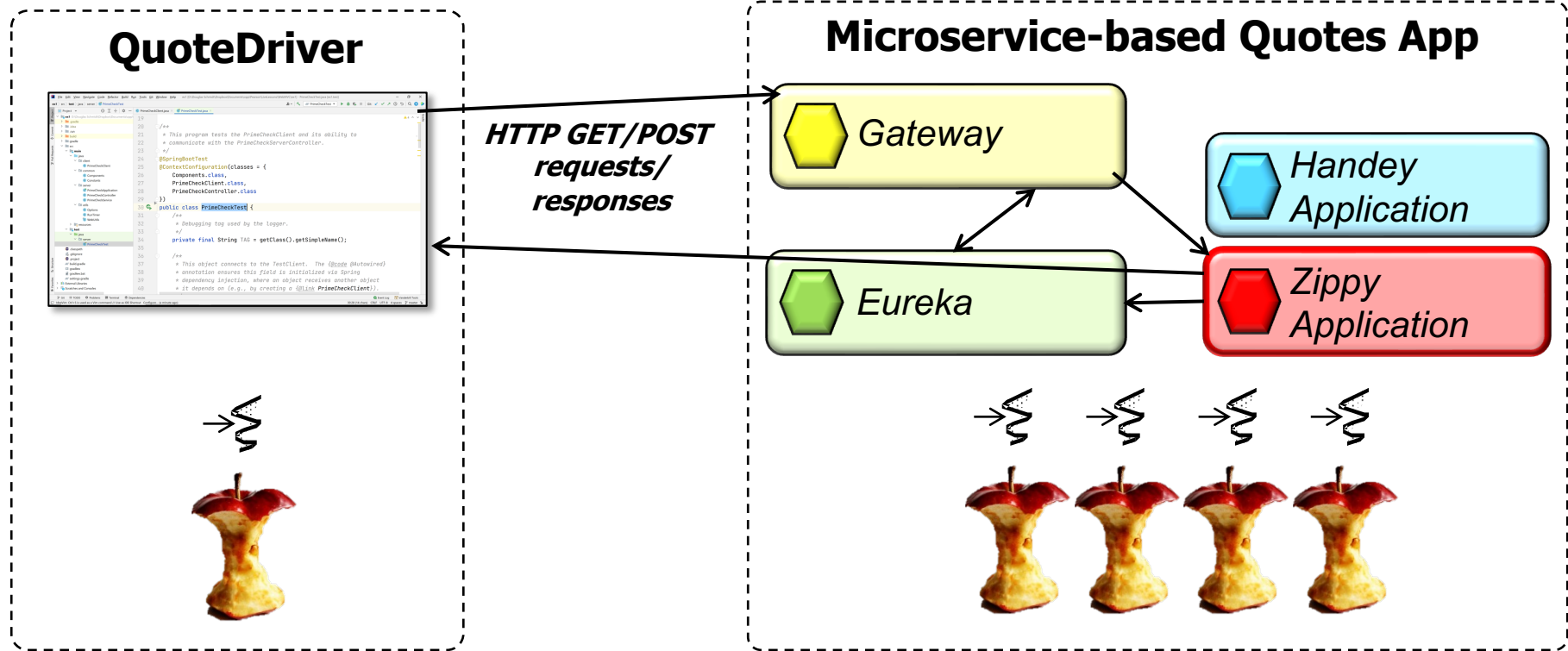
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Learning Objectives in this Part of the Lesson

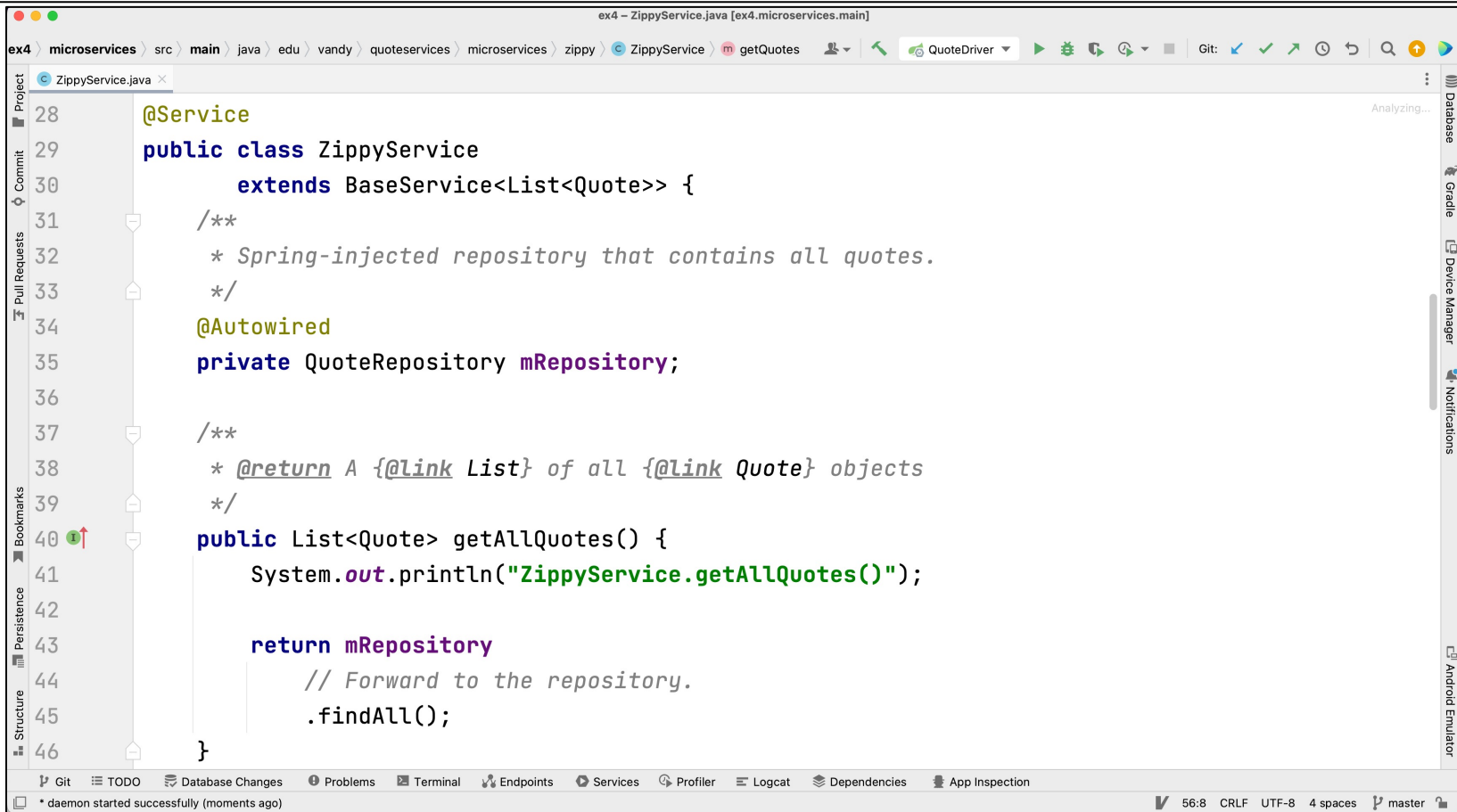
- Understand the implementation of the ZippyController & ZippyService classes running in the ZippyApplication microservice (also shows a custom SQL query)



Shows both parallel & sequential uses of the Jakarta Persistence API (JPA)

Implementing the Zippy Application Microservice

Implementing the ZippyApplication Microservice



The screenshot shows an IDE window titled "ex4 - ZippyService.java [ex4.microservices.main]". The project structure on the left indicates the file is located at "ex4 > microservices > src > main > java > edu > vandy > quoteservices > microservices > zippy > ZippyService.java". The code in the editor is as follows:

```
28  @Service
29  public class ZippyService
30      extends BaseService<List<Quote>> {
31      /**
32       * Spring-injected repository that contains all quotes.
33       */
34      @Autowired
35      private QuoteRepository mRepository;
36
37      /**
38       * @return A {@link List} of all {@link Quote} objects
39       */
40      public List<Quote> getAllQuotes() {
41          System.out.println("ZippyService.getAllQuotes()");
42
43          return mRepository
44              // Forward to the repository.
45              .findAll();
46      }
```

The IDE interface includes a sidebar with "Project", "Commit", "Pull Requests", "Bookmarks", "Structure", and "Persistence" views. On the right, there are panels for "Database", "Gradle", "Device Manager", "Notifications", and "Android Emulator". The bottom status bar shows "56:8 CRLF UTF-8 4 spaces master" and a message: "• daemon started successfully (moments ago)".

See github.com/douglasraigschmidt/LiveLessons/tree/master/WebMVC/ex4

End of the QuoteServices App Case Study: Implementing the Zippy Microservice