

The QuoteServices App Case Study: Implementing the Zippy Microservice

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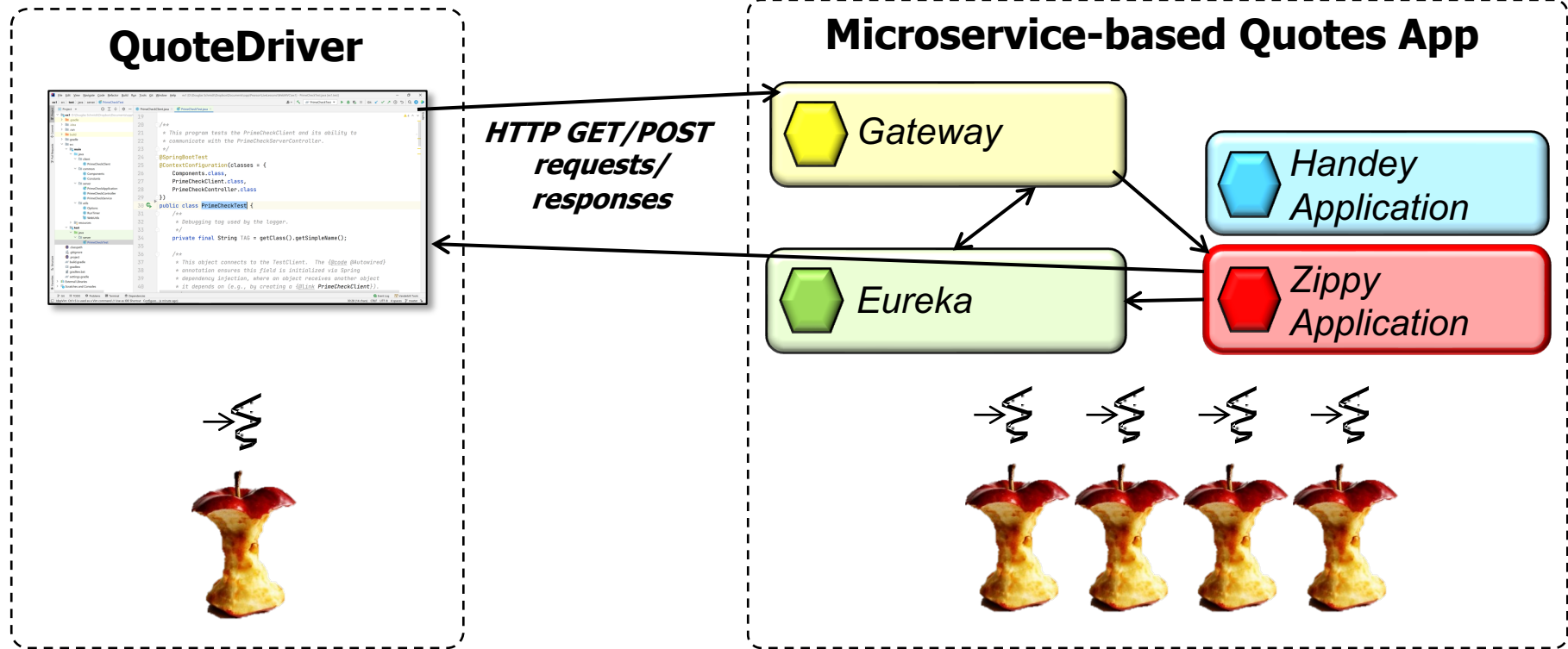
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Learning Objectives in this Part of the Lesson

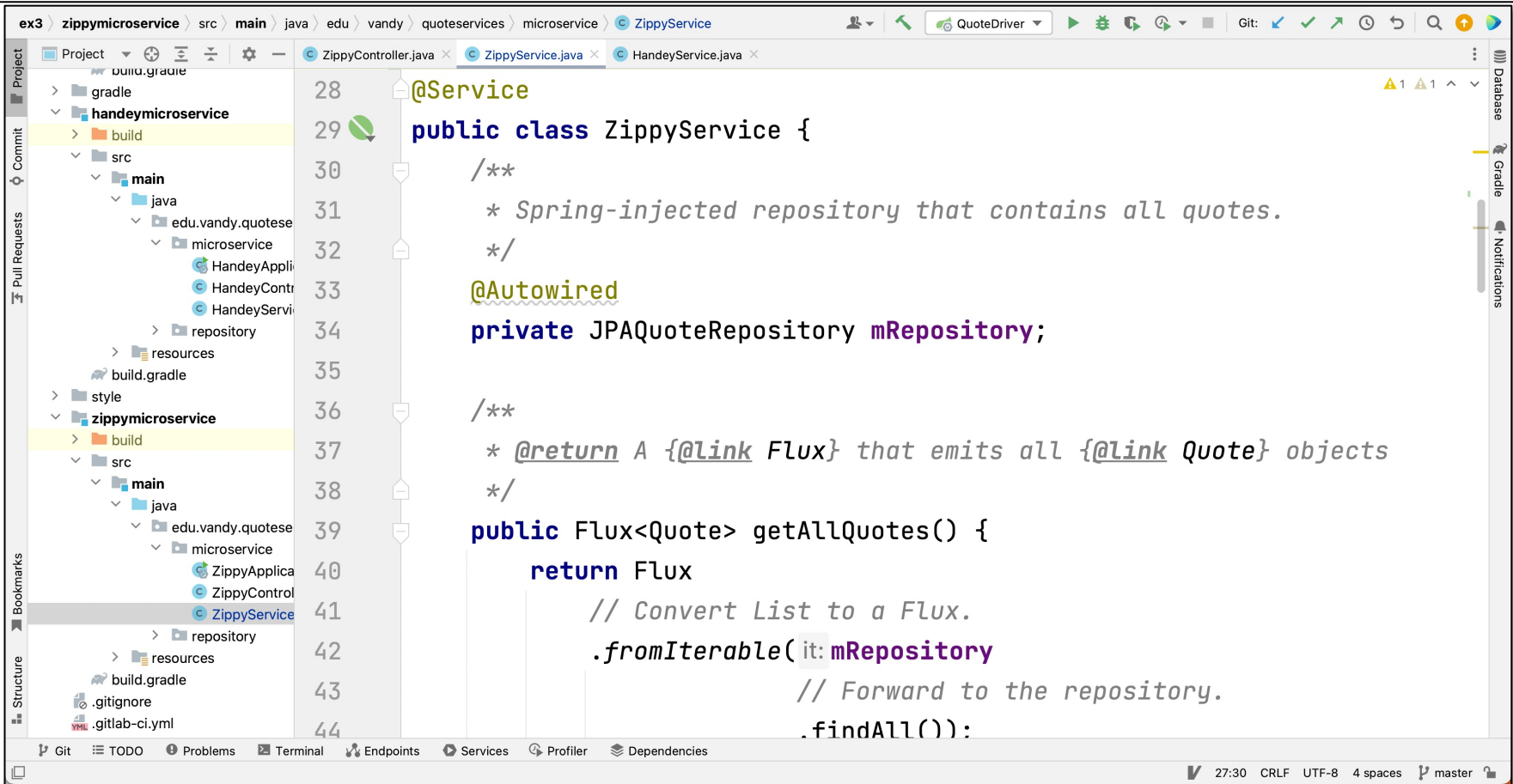
- Understand the implementation of the ZippyController & ZippyService classes running in the ZippyApplication microservice (also shows a custom SQL query)



Shows reactive encapsulation of the Jakarta Persistence API (JPA)

Implementing the Zippy Application Microservice

Implementing the ZippyApplication Microservice



```
ex3 > zippymicroservice > src > main > java > edu > vandy > quoteservices > microservice > ZippyService
Project
  build.gradle
  gradle
  handeymicroservice
    build
      src
        main
          java
            edu.vandy.quoteservices
              microservice
                HandeyApplic...
                HandeyContr...
                HandeyServi...
          repository
            resources
          build.gradle
        style
      zippymicroservice
        build
          src
            main
              java
                edu.vandy.quoteservices
                  microservice
                    ZippyApplica...
                    ZippyControl...
                    ZippyService
              repository
                resources
            build.gradle
            .gitignore
            .gitlab-ci.yml
Structure
  Git
  TODO
  Problems
  Terminal
  Endpoints
  Services
  Profiler
  Dependencies
  Database
  Gradle
  Notifications

28 @Service
29 public class ZippyService {
30     /**
31      * Spring-injected repository that contains all quotes.
32      */
33     @Autowired
34     private JPAQuoteRepository mRepository;
35
36     /**
37      * @return A {@link Flux} that emits all {@link Quote} objects
38      */
39     public Flux<Quote> getAllQuotes() {
40         return Flux
41             // Convert List to a Flux.
42             .fromIterable(it: mRepository
43                 // Forward to the repository.
44                 .findAll());
```

See [WebFlux/ex3/zippymicroservice/src/main/java/edu/vandy/quoteservices](https://webflux.io/ex3/zippymicroservice/src/main/java/edu/vandy/quoteservices)

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