

The QuoteServices App Case Study: Implementing the Handey Microservice

Douglas C. Schmidt

d.schmidt@vanderbilt.edu

www.dre.vanderbilt.edu/~schmidt

Professor of Computer Science

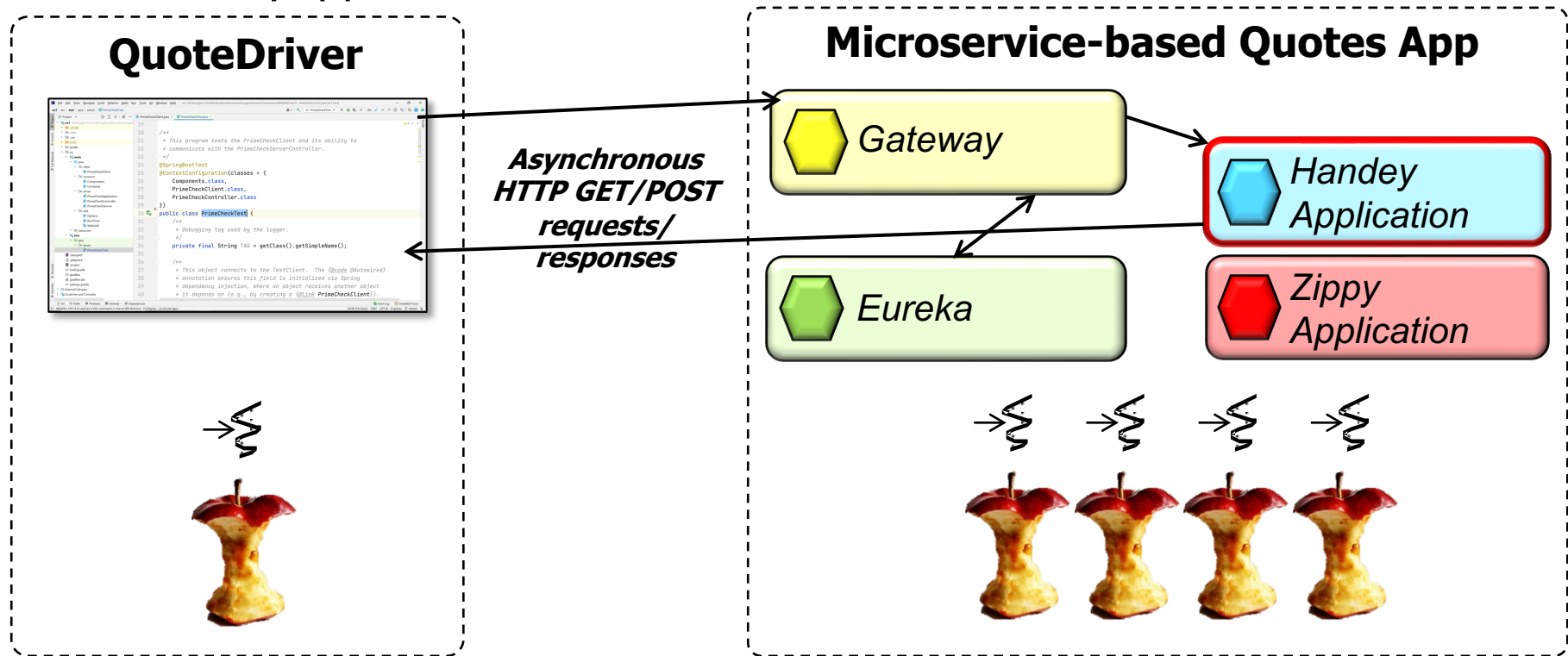
**Institute for Software
Integrated Systems**

**Vanderbilt University
Nashville, Tennessee, USA**



Learning Objectives in this Part of the Lesson

- Understand how the Controller, Service, & Repository classes are implemented in the HandeyApplication microservice



Uses the R2DBC reactive database framework

Implementing the Handey Application Microservice

Implementing the HandeyApplication Microservice

The screenshot shows an IDE window titled "ex3" with a project named "handeymicroservice". The left sidebar displays the project structure, including folders for "eureka", "gateway", "gradle", and "handeymicroservice". The "handeymicroservice" folder is expanded, showing subfolders "src", "main", "java", "edu.vandy.quoteservices", "microservice", "repository", and "resources". The "main" folder is further expanded, showing "java" and "resources". The "java" folder is expanded, showing "edu.vandy.quoteservices", "microservice", and "repository". The "microservice" folder is expanded, showing "HandeyApplication", "HandeyController", and "HandeyService". The "repository" folder is expanded, showing "MultiQueryRepository", "MultiQueryRepositoryImpl", and "ReactiveQuoteRepository".

The main editor displays the code for "HandeyService.java". The code is as follows:

```
24 @Service
25 public class HandeyService {
26     /**
27      * Spring-injected repository that contains all quotes.
28      */
29     @Autowired
30     private ReactiveQuoteRepository mRepository;
31
32     /**
33      * @return A {@link Flux} of all {@link Quote} objects
34      */
35     public Flux<Quote> getAllQuotes() {
36         return mRepository
37             .findAll();
38     }
39 }
```

The bottom status bar shows the following information: "Shared indexes for maven library 'org.assertj:assertj-core:3.23.1' are downloaded (1.99 MB in 543 ms) (today 1:10 PM)", "23:32", "CRLF", "UTF-8", "4 spaces", and "master".

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

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