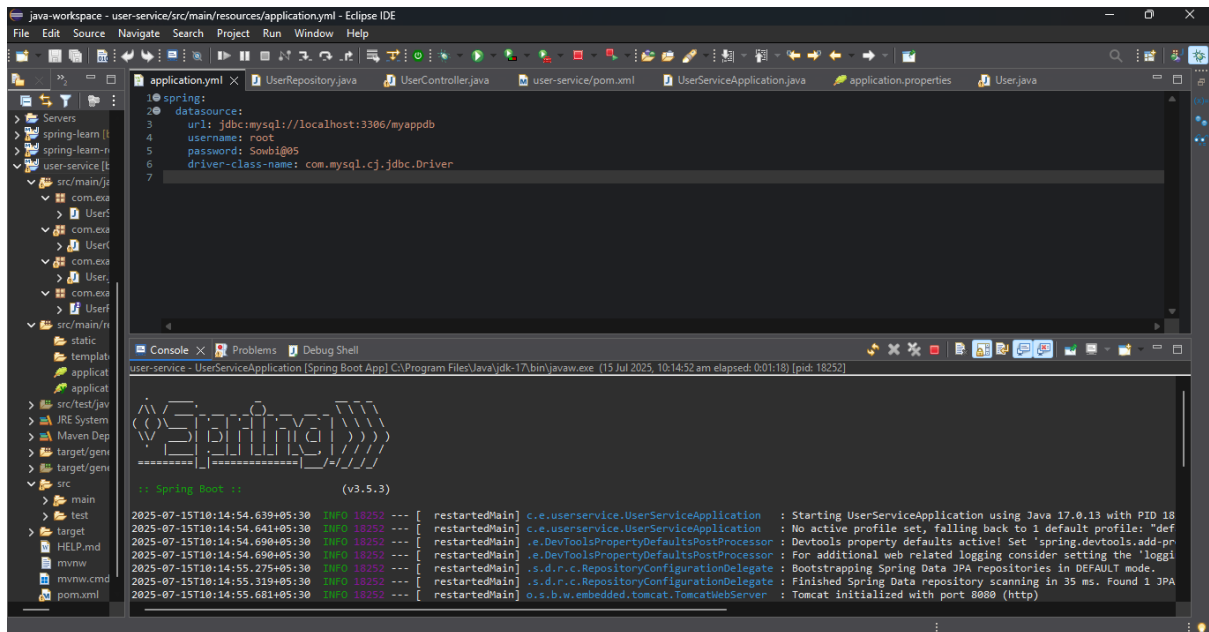


## Exercises on Microservices with Spring Boot 3.0

### 1. Build a User and Order Management System

#### UserService Output:



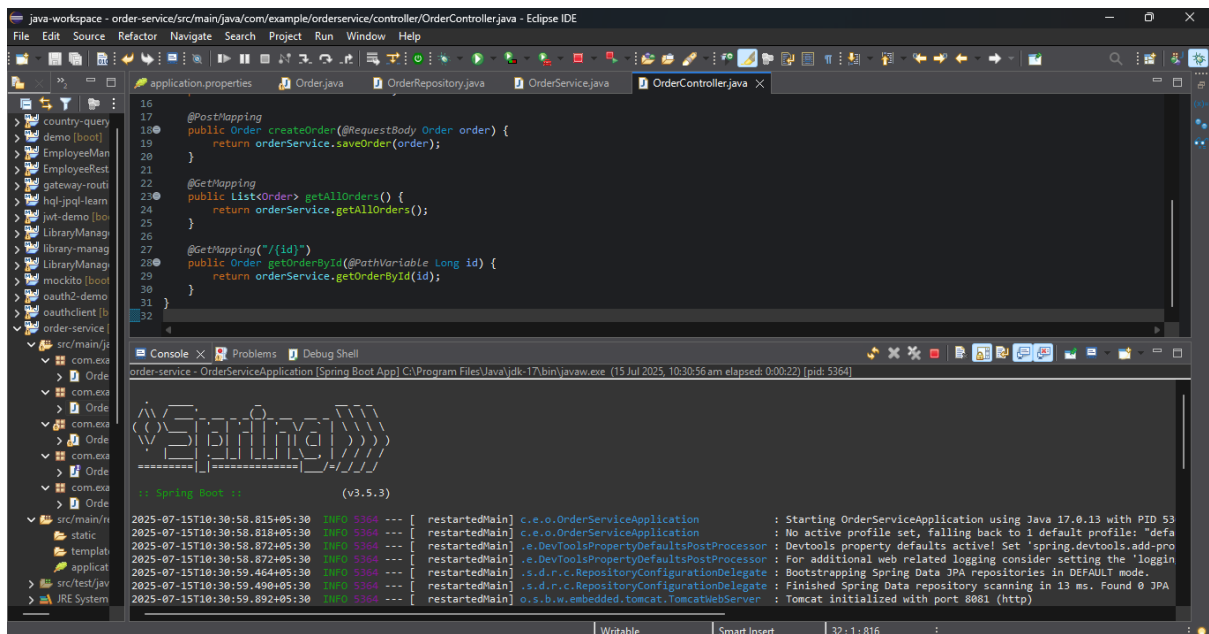
```
java:workspace - user-service/src/main/resources/application.yml - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help

application.yml
1 spring:
2   datasource:
3     url: jdbc:mysql://localhost:3306/myappdb
4     username: root
5     password: Sowbi@05
6     driver-class-name: com.mysql.cj.jdbc.Driver
7

Console
User-service - UserServiceApplication [Spring Boot App] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Jul 2025, 10:14:52 am elapsed: 0:01:18) [pid: 18252]

Spring Boot (v3.5.3)
2025-07-15T10:14:54.639+05:30 INFO 18252 --- [ restartedMain] c.e.userservice.UserServiceApplication : Starting UserServiceApplication using Java 17.0.13 with PID 18
2025-07-15T10:14:54.641+05:30 INFO 18252 --- [ restartedMain] c.e.userservice.UserServiceApplication : No active profile set, falling back to 1 default profile: "def
2025-07-15T10:14:54.690+05:30 INFO 18252 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-pr
2025-07-15T10:14:54.690+05:30 INFO 18252 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'loggi
2025-07-15T10:14:55.275+05:30 INFO 18252 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2025-07-15T10:14:55.319+05:30 INFO 18252 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 35 ms. Found 1 JPA
2025-07-15T10:14:55.681+05:30 INFO 18252 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8080 (http)
```

#### OrderService Output:



```
java:workspace - order-service/src/main/java/com/example/orderservice/controller/OrderController.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

application.properties
16
17 @PostMapping
18 public Order createOrder(@RequestBody Order order) {
19   return orderService.saveOrder(order);
20 }
21
22 @GetMapping
23 public List<Order> getAllOrders() {
24   return orderService.getAllOrders();
25 }
26
27 @GetMapping("/{id}")
28 public Order getOrderById(@PathVariable Long id) {
29   return orderService.getOrderById(id);
30 }
31
32

Console
Order-service - OrderServiceApplication [Spring Boot App] C:\Program Files\Java\jdk-17\bin\javaw.exe (15 Jul 2025, 10:30:56 am elapsed: 0:00:22) [pid: 5364]

Spring Boot (v3.5.3)
2025-07-15T10:30:58.815+05:30 INFO 5364 --- [ restartedMain] c.e.o.OrderServiceApplication : Starting OrderServiceApplication using Java 17.0.13 with PID 53
2025-07-15T10:30:58.818+05:30 INFO 5364 --- [ restartedMain] c.e.o.OrderServiceApplication : No active profile set, falling back to 1 default profile: "defa
2025-07-15T10:30:58.872+05:30 INFO 5364 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-pro
2025-07-15T10:30:58.872+05:30 INFO 5364 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'login
2025-07-15T10:30:59.464+05:30 INFO 5364 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2025-07-15T10:30:59.490+05:30 INFO 5364 --- [ restartedMain] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 13 ms. Found 0 JPA
2025-07-15T10:30:59.892+05:30 INFO 5364 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8081 (http)
```