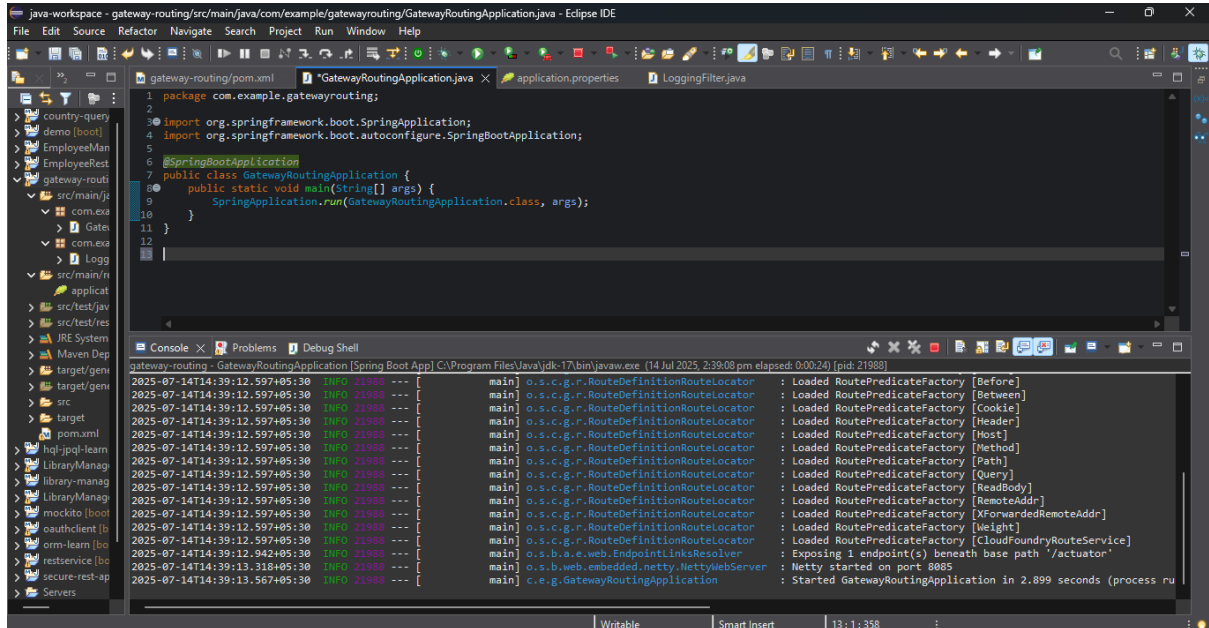


Exercise 1: Implementing Edge Services for Routing and Filtering

Output:



The screenshot displays the Eclipse IDE interface. The main editor shows the `GatewayRoutingApplication.java` file, which is a Spring Boot application. The code includes the following:

```
1 package com.example.gatewayrouting;
2
3
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6
7 @SpringBootApplication
8 public class GatewayRoutingApplication {
9     public static void main(String[] args) {
10         SpringApplication.run(GatewayRoutingApplication.class, args);
11     }
12 }
```

The console output shows the application's startup logs, including the loading of various RoutePredicateFactories and the starting of the NettyWebServer on port 8085.

```
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Before]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Between]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Cookie]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Header]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Host]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Method]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Path]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Query]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [ReadBody]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [RemoteAddr]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [XForwardedRemoteAddr]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [Weight]
2025-07-14T14:39:12.597+05:30 INFO 21988 --- [main] o.s.c.g.r.RouteDefinitionRouteLocator : Loaded RoutePredicateFactory [CloudFoundryRouteService]
2025-07-14T14:39:12.942+05:30 INFO 21988 --- [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 1 endpoint(s) beneath base path '/actuator'
2025-07-14T14:39:13.318+05:30 INFO 21988 --- [main] o.s.b.web.embedded.netty.NettyWebServer : Netty started on port 8085
2025-07-14T14:39:13.567+05:30 INFO 21988 --- [main] c.e.g.GatewayRoutingApplication : Started GatewayRoutingApplication in 2.899 seconds (process ru
```