Discovering and Load Balancing TollRate Billboard

1. Import **demo-eureka-tollrate-billboard** application as Maven Project

2. Add eureka-starter dependency

```xml
<dependency>
     <groupId>org.springframework.cloud</groupId>
     <artifactId>spring-cloud-starter-eureka</artifactId>
     <version>1.4.5.RELEASE</version>
</dependency>
```

3. Create bootstrap.porperties

bootstrap.properties

```
spring.application.name = demo-tollrate-billboard
```

4. **application.properties**

```
server.port = 8081

# eureka.client.serviceUrl.defaultZone = http://localhost:8761/eureka
eureka.client.register-with-eureka = true
eureka.client.fetch-registry = true
eureka.client.healthcheck.enabled=true
```

5. Add EurekaClient annotation for the Main Application

```java
@EnableEurekaClient
@SpringBootApplication
public class DemoEurekaTollrateBillboardApplication {
```

6. Add a RestTemplate for getting the interceptors to perform Load balancing

DashboardController.java

```java
@Autowired
    private RestTemplate restTemplate;

    @LoadBalanced
    @Bean
    public RestTemplate restTemplate(RestTemplateBuilder builder) {
        return builder.build();
    }
```

Also change the following:
− RestTemplate object in /dashboard API method
− Name of the toll service rather than localhost:8085

Line #30 (as per my file here)

The old line is commented in # 29 (as per my file here)
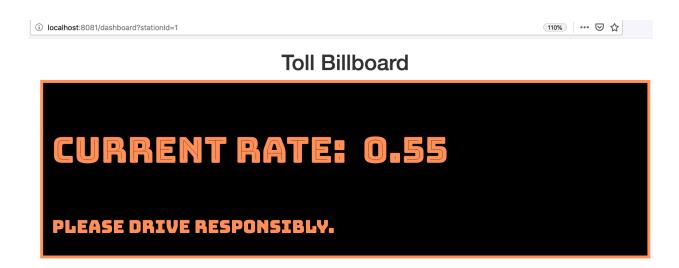
DashboardController.java

```java
25⊖    @RequestMapping("/dashboard")
26     public String GetTollRate(@RequestParam int stationId, Model m) {
27
28         RestTemplate rest = new RestTemplate();
29         //TollRate tr = rest.getForObject("http://localhost:8085/tollrate/" + stationId, TollRate.class);
30         TollRate tr = restTemplate.getForObject("http://demo-toll-service/tollrate/" + stationId, TollRate.class);
```

7. Start **demo-eureka-server** App

8. Start **demo-eureka-tollrate-service** App

9. Start **demo-eureka-tollrate-billboard** App

10. OUTPUT

Visit ***http://localhost:8081/dashboard?stationId=1***

localhost:8081/dashboard?stationId=1   110%   ... ☑ ☆

Toll Billboard

CURRENT RATE: 0.55

PLEASE DRIVE RESPONSIBLY.

localhost:8081/dashboard?stationId=2   110%   ... ☑ ☆

Toll Billboard

CURRENT RATE: 1.05

PLEASE DRIVE RESPONSIBLY.