Create Zuul Gateway Problem

* [**Details**](https://cognizant.e-box.co.in/problem/show/9602#tab1)

Reference Code : FSE-MCR-006Complexity : Level1

**Create Zuul Gateway**   
  
In the microservices created in previous exercises, one could clearly see that the URL for each microservice is different.  
  
This severly impacts the angular code as we will have different end points for each service.  
  
To handle this issue, we are going to create a gateway that will act as a single point of entry for all REST APIs.  
  
The Zuul Gateway can also be configured as a load balancer for each REST API, which is not in the scope of this learning.  
  
Follow steps below to implement a gateway that acts as a single point of entry for account and loan REST APIs:

* Using https://start.spring.io create a new project named zuul-gateway with following dependencies
  + Zuul
  + Spring Boot DevTools
  + Spring Web
* Create maven build in command prompt
* Import zuul-gateway project in eclipse
* Include @EnableZuulProxy in ZuulGatewayApplication class
* Modify properties file to have the following properties

# routing for account service

zuul.routes.account-service.url=http://localhost:8080

# routing for loan service

zuul.routes.loan-service.url=http://localhost:8082

# disable load balancing

ribbon.eureka.enabled=false

# port for zuul proxy

server.port=8083

* Create a new class SimpleFilter that extends ZuulFilter class. Generate code for the methods to be implemented. Ensure following return value for each method:
  + run() - return null
  + shouldFilter() - return true
  + filterOrder() - return 1
  + filterType() - return "pre"
* Launch the application and try hitting the following URLs in the browser. This should display the results of account and loan application through zuul gateway.
  + <http://localhost:8083/account-service/accounts/324324>
  + <http://localhost:8083/loan-service/loans/324324>

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