**Microservices Tutorials**

http://localhost:8080/limits/

{"maximum":1,"minimum":1000}

http://localhost:8080/limits/props

{"maximum":222,"minimum":2}

http://localhost:8080/limits/chequeLimit

{"chequeLimit":1000000}

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USER@DESKTOP-ERQQ40S MINGW64 /

$ cd c:

USER@DESKTOP-ERQQ40S MINGW64 /c

$ cd users

USER@DESKTOP-ERQQ40S MINGW64 /c/users

$ cd user

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user

$ mkdir git-chequeconfig-repo

mkdir: cannot create directory ‘git-chequeconfig-repo’: File exists

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user

$ mkdir git-chequeconfig-repo

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user

$ cd git-chequeconfig-repo

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user/git-chequeconfig-repo

$ git init

Initialized empty Git repository in C:/Users/USER/git-chequeconfig-repo/.git/

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user/git-chequeconfig-repo (master)

$ git config --global user.email

abc@example.com

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user/git-chequeconfig-repo (master)

$ git config --global user.name

abc

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user/git-chequeconfig-repo (master)

$ git add -A

USER@DESKTOP-ERQQ40S MINGW64 /c/users/user/git-chequeconfig-repo (master)

$ git commit -m "firstcommite"

[master (root-commit) 4b1773d] firstcommite

1 file changed, 1 insertion(+)

create mode 100644 limit-service-cheque-properties

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http://localhost:8888/limits-service/default

{"name":"limits-service","profiles":["default"],"label":null,"version":"25c591397471b949307fd69d30dd8a4596c74963","state":null,"propertySources":[{"name":"file://C:/Users/USER/git-localconfig-repo/limits-service.properties","source":{"limits-service.minimum":"8","limits-service.maximum":"888"}}]}

http://localhost:8888/limits-service/qa

{"name":"limits-service","profiles":["qa"],"label":null,"version":"25c591397471b949307fd69d30dd8a4596c74963","state":null,"propertySources":[{"name":"file://C:/Users/USER/git-localconfig-repo/limits-service-qa.properties","source":{"limits-service.minimum":"2","limits-service.maximum":"222"}},{"name":"file://C:/Users/USER/git-localconfig-repo/limits-service.properties","source":{"limits-service.minimum":"8","limits-service.maximum":"888"}}]}

http://localhost:8888/limits-service-cheque/default

{"name":"limits-service-cheque","profiles":["default"],"label":null,"version":"4c53b8cf018d01122e8e3d2760dd2b54538dcc8c","state":null,"propertySources":[{"name":"file://C:/Users/USER/git-chequeconfig-repo/limits-service-cheque.properties","source":{"limits-service.chequelimit":"1500000"}}]}

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currency-exchange service port 8000 :::

http://localhost:8000/currency-exchange-hardcoded/from/USD/to/INR

{"id":1000,"from":"USD","to":"INR","conversionMultiple":45,"port":0

http://localhost:8000/currency-exchange/from/USD/to/INR

{"id":10001,"from":"USD","to":"INR","conversionMultiple":65.00,"port":8000}

currency-exchange service port 8040 :::

http://localhost:8040/currency-exchange-dynamic-port/from/USD/to/INR

{"id":1000,"from":"USD","to":"INR","conversionMultiple":55,"port":8040

currency-exchange service port 8001 :::

http://localhost:8001/currency-exchange/from/INR/to/USD

{"id":1000,"from":"INR","to":"USD","conversionMultiple":65,"port":8001}

currency-exchange service port 8002 :::

http://localhost:8002/currency-exchange/from/INR/to/USD

{"id":1000,"from":"INR","to":"USD","conversionMultiple":65,"port":8002}

H2 Database Console:::

http://localhost:8000/h2-console/test.do?jsessionid=a81ba4a197703716f75ee71047cbfd46

http://localhost:8000/getemployeebyid/empId/1000

{"empId":1000,"empName":"Mithun Majumdar","empSal":100000.00}

http://localhost:8000/getemployee

[{"empId":1000,"empName":"Mithun Majumdar","empSal":100000.00},{"empId":1001,"empName":"Sumit Ganguly","empSal":75000.00},{"empId":1002,"empName":"Ashim Nath","empSal":50000.00}]

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currency-converter-hardcoded service port 8100 :::

http://localhost:8100/currency-converter-hardcoded/from/USD/to/INR/quantity/1000

{"id":1,"from":"USD","to":"INR","quantity":1000,"totalCalculatedAmount":1000,"port":0,"conversionMultiple":1}

currency-converter service port 8100 :::

http://localhost:8100/currency-converter/from/USD/to/INR/quantity/1000

{"id":10001,"from":"USD","to":"INR","quantity":1000,"totalCalculatedAmount":65000.00,"port":8000,"conversionMultiple":65.00}

currency-converter service fegin port 8100 :::

http://localhost:8100/currency-converter-feign/from/USD/to/INR/quantity/1000

{"id":10001,"from":"USD","to":"INR","quantity":1000,"totalCalculatedAmount":65000.00,"port":8000,"conversionMultiple":65.00}

http://localhost:8100/currency-converter-feign/from/EUR/to/INR/quantity/2000

{"id":10002,"from":"EUR","to":"INR","quantity":2000,"totalCalculatedAmount":150000.00,"port":8000,"conversionMultiple":75.00

Running Client Side Load Balancing with Ribbon :::

http://localhost:8100/currency-converter-feign/from/EUR/to/INR/quantity/10000

{"id":10002,"from":"EUR","to":"INR","quantity":10000,"totalCalculatedAmount":750000.00,"port":8000,"conversionMultiple":75.00}

refresh

{"id":10002,"from":"EUR","to":"INR","quantity":10000,"totalCalculatedAmount":750000.00,"port":8001,"conversionMultiple":75.00}

Eureka distributed server.

http://localhost:8761

ZuulAPI Gateway server

Direct call

http://localhost:8000/currency-exchange/from/EUR/to/INR

{"id":10002,"from":"EUR","to":"INR","conversionMultiple":75.00,"port":8000}

Through Zuul API i.e. http://localhost:8765/{application-name}/{uri}

http://localhost:8765/currency-exchange-service/currency-exchange/from/EUR/to/INR

{"id":10002,"from":"EUR","to":"INR","conversionMultiple":75.00,"port":8000}

http://localhost:8100/currency-converter-feign/from/USD/to/INR/quantity/1000

{"id":10001,"from":"USD","to":"INR","quantity":1000,"totalCalculatedAmount":65000.00,"port":8000,"conversionMultiple":65.00}

http://localhost:8100/currency-converter-feign/from/USD/to/INR/quantity/15000

{"id":10001,"from":"USD","to":"INR","quantity":15000,"totalCalculatedAmount":975000.00,"port":8000,"conversionMultiple":65.00}

Zipkin distributed tracing system.

Application Name Trace Id Span Id Zipkin Export Flag

http://localhost:8100/currency-converter-feign/from/USD/to/INR/quantity/15000

{"id":10001,"from":"USD","to":"INR","quantity":15000,"totalCalculatedAmount":975000.00,"port":8000,"conversionMultiple":65.00}

Application Name Trace Id Span Id Zipkin Export Flag

2020-09-14 19:37:07.157 INFO [currency-conversion-service,4f72be3b67bbe984,4f72be3b67bbe984,true] 6196 --- [nio-8100-exec-7] c.j.m.c.CurrencyConversionController : com.javatpoint.microservices.currencyconversionservice.CurrencyConversionBean@5e76266f