**http://localhost:8072/actuator/gateway/routes**

it is getway server to check what are the severvices running over it.

[{"predicate":"Paths: [/gatewayserver/\*\*], match trailing slash: true","metadata":{"jmx.port":"52498","management.port":"8072"},"route\_id":"ReactiveCompositeDiscoveryClient\_GATEWAYSERVER","filters":["[[RewritePath /gatewayserver/?(?<remaining>.\*) = '/${remaining}'], order = 1]"],"uri":"lb://GATEWAYSERVER","order":0},{"predicate":"Paths: [/accounts/\*\*], match trailing slash: true","metadata":{"jmx.port":"52483","management.port":"8081"},"route\_id":"ReactiveCompositeDiscoveryClient\_ACCOUNTS","filters":["[[RewritePath /accounts/?(?<remaining>.\*) = '/${remaining}'], order = 1]"],"uri":"lb://ACCOUNTS","order":0}]

Using routing server we can call account application

**POSTMAN:**

**http://localhost:8072/accounts/myaccount**

Request:

{

"customerId": 1

}

Response:

{

"customerId": 1,

"accountNumber": 100928281,

"accountType": "saving",

"branchAddress": "LVS",

"createDt": "2021-05-16"

}

**Implementing custom routing using spring cloud getway**

@Bean

public RouteLocator myRoutes(RouteLocatorBuilder builder) {

return builder.routes()

.route(p -> p

.path("/bankAPI/accounts/\*\*")

.filters(f -> f.rewritePath("/bankAPI/accounts/(?<segment>.\*)","/${segment}")

.addResponseHeader("X-Response-Time",new Date().toString()))

.uri("lb://ACCOUNTS")).

route(p -> p

.path("/bankAPI/loans/\*\*")

.filters(f -> f.rewritePath("/bankAPI/loans/(?<segment>.\*)","/${segment}")

.addResponseHeader("X-Response-Time",new Date().toString()))

.uri("lb://LOANS")).

route(p -> p

.path("/bankAPI/cards/\*\*")

.filters(f -> f.rewritePath("/bankAPI/cards/(?<segment>.\*)","/${segment}")

.addResponseHeader("X-Response-Time",new Date().toString()))

.uri("lb://CARDS")).build();

}

**POSTMAN**

**http://localhost:8072/bankAPI/accounts/myaccount**

{

"customerId": 1

}

{

"customerId": 1,

"accountNumber": 100928281,

"accountType": "saving",

"branchAddress": "LVS",

"createDt": "2021-05-16"

}

**http://localhost:8072/bankAPI/accounts/myCustomerDetails**

{

"customerId": 1

}

{

"accounts": {

"customerId": 1,

"accountNumber": 100928281,

"accountType": "saving",

"branchAddress": "LVS",

"createDt": "2021-05-16"

},

"loans": [

{

"loanNumber": 3,

"customerId": 1,

"startDt": "2021-02-14",

"loanType": "Home",

"totalLoan": 50000,

"amountPaid": 10000,

"outstandingAmount": 40000,

"createDt": "2018-02-14"

},

],

"cards": [

{

"cardId": 1,

"customerId": 1,

"cardNumber": "4565XXXX4656",

"cardType": "Credit",

"totalLimit": 10000,

"amountUsed": 500,

"availableAmount": 9500,

"createDt": "2022-07-03"

},

{

"cardId": 2,

"customerId": 1,

"cardNumber": "3455XXXX8673",

"cardType": "Credit",

"totalLimit": 7500,

"amountUsed": 600,

"availableAmount": 6900,

"createDt": "2022-07-03"

},

{

"cardId": 3,

"customerId": 1,

"cardNumber": "2359XXXX9346",

"cardType": "Credit",

"totalLimit": 20000,

"amountUsed": 4000,

"availableAmount": 16000,

"createDt": "2022-07-03"

}

]

}

[**http://localhost:8072/bankAPI/loans/myLoans**](http://localhost:8072/bankAPI/loans/myLoans)

{

"customerId": 1

}

[

{

"loanNumber": 3,

"customerId": 1,

"startDt": "2021-02-14",

"loanType": "Home",

"totalLoan": 50000,

"amountPaid": 10000,

"outstandingAmount": 40000,

"createDt": "2018-02-14"

},

{

----

}

]

[**http://localhost:8072/bankAPI/cards/myCards**](http://localhost:8072/bankAPI/cards/myCards)

[

{

"cardId": 1,

"customerId": 1,

"cardNumber": "4565XXXX4656",

"cardType": "Credit",

"totalLimit": 10000,

"amountUsed": 500,

"availableAmount": 9500,

"createDt": "2022-07-03"

},

{

-------

}

]

**Adding @RequestHeader("eazybank-correlation-id")**

update all the important classes like AccountsController.java to accept the @RequestHeader("eazybank-correlation-id") String correlationid as input inside the method parameters.

**http://localhost:8072/bankAPI/accounts/myCustomerDetails**

{

"customerId": 1

}

Response:

{

"accounts": {

"customerId": 1,

"accountNumber": 100928281,

"accountType": "saving",

"branchAddress": "LVS",

"createDt": "2021-05-16"

},

---

---

}

**Console debug: eazybank-correlation-id getting from request header**

------------------ff5c3077-cf5c-4056-8c5f-ad6d9280b967

EazyBank-correlation-id generated in tracing filter: 3a0745ec-6d6c-453a-b128-18c90f7b8d93.