

Running Notes:

New controller code for feign client

AccountsController.java

```
package com.bank.account.controller;

@RestController
public class AccountsController {
    @Autowired
    private AccountsRepository accountRepository;
    @Autowired
    LoansFeignClient loansFeignClient;
    @Autowired
    CardsFeignClient cardsFeignClient;
    @Autowired
    AccountsServiceConfig accountsConfig;

    @PostMapping("/myaccount")
    public Account getAccountDetails(@RequestBody Customer customer) {
        Account account = accountRepository.findByCustomerId(customer.getCustomerId());
        if (account != null) {
            return account;
        } else {
            return null;
        }
    }

    @GetMapping("/account/properties")
    public String getPropertyDetails() throws JsonProcessingException {
        ObjectMapper ow = new ObjectMapper().writer().withDefaultPrettyPrinter();
        Properties properties = new Properties(accountsConfig.getMsg(), accountsConfig.getBuildVersion(),
            accountsConfig.getMailDetails(), accountsConfig.getActiveBranches());
        String jsonStr = ow.writeValueAsString(properties);
        return jsonStr;
    }

    @PostMapping("/myCustomerDetails")
    public CustomerDetails myCustomerDetails(@RequestBody Customer customer) {
        Account accounts = accountRepository.findByCustomerId(customer.getCustomerId());
        List<Loans> loans = loansFeignClient.getLoansDetails(customer);
        List<Cards> cards = cardsFeignClient.getCardDetails(customer);

        CustomerDetails customerDetails = new CustomerDetails();
        customerDetails.setAccounts(accounts);
        customerDetails.setLoans(loans);
        customerDetails.setCards(cards);

        return customerDetails;
    }
}
```

To build docker images:

- docker build . -t bimal1993/accounts
- docker build . -t bimal1993/loans
- docker build . -t bimal1993/card
- docker build . -t bimal1993/configserver
- docker build . -t bimal1993/eurekaerver

```
docker run --network spring-net -p 8080:8081 bimal1993/accounts
docker run --network spring-net -p 8090:8090 bimal1993/loans
docker run --network spring-net -p 9000:9000 bimal1993/card
```

D:\stsworkspace\account\docker-compose\default>docker compose up

```
D:\stsworkspace\account>docker container ls -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS        NAMES
408ec1f047a2   bimal1993/card:latest              "java -jar /cards-0..." 3 seconds ago Created              default-cards-1
18945dcc5571   bimal1993/loans:latest             "java -jar /loans-0..." 3 seconds ago Created              default-loans-1
172c15adde62   bimal1993/accounts:latest          "java -jar /accounts..." 3 seconds ago Created              default-accounts-1
415996dac646   bimal1993/eurekaerver:latest       "java -jar /eureka..." 4 seconds ago Created              fetebird-eurekaervice
9538d738297d   bimal1993/configserver:latest      "java -jar /configse..." 5 seconds ago Created              default-configserver-1
f9a0049b3b56   mysql                              "docker-entrypoint.s..." 5 seconds ago Created              mysql-standalone
```

docker container exec -it be18f2a16232 bash

mysql -uroot -p

1234

```
mysql> show tables;
+-----+
| Tables_in_dockertest |
+-----+
| account              |
| card                 |
| customer             |
| hibernate_sequence  |
| loan                 |
+-----+
5 rows in set (0.00 sec)
```

To check docker log

D:\stsworkspace\loans>docker logs -f e0f509001613

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
ACCOUNTS	n/a (1)	(1)	UP (1) - 172c15adde62:accounts:8081
CARDS	n/a (1)	(1)	UP (1) - 408ec1f047a2:cards:9000
LOANS	n/a (1)	(1)	UP (1) - 18945dcc5571:loans:8090

General Info

docker-compose.yml

version: "3.8"

services:

```
mysql-standalone:
  image: mysql
  container_name: mysql-standalone
  networks:
  - spring-net
  environment:
    - MYSQL_ROOT_PASSWORD=1234
    - MYSQL_DATABASE=dockertest
```

```
configserver:
  image: bimal1993/configserver:latest
  mem_limit: 700m
  ports:
    - "8071:8071"
  networks:
    - spring-net
```

```
eureka-server:
  image: bimal1993/eureka-server:latest
  container_name: fetebird-eureka-service
  mem_limit: 700m
  ports:
    - "8070:8070"
  networks:
    - spring-net
  depends_on:
    - configserver
  deploy:
    restart_policy:
      condition: on-failure
      delay: 25s
      max_attempts: 10
      window: 120s
  environment:
    SPRING_PROFILES_ACTIVE: default
```

SPRING_CONFIG_IMPORT: configserver:http://configserver:8071/

accounts:

image: bimal1993/accounts:latest

mem_limit: 700m

ports:

- "8080:8081"

networks:

- spring-net

depends_on:

- eureka-server

- mysql-standalone

deploy:

restart_policy:

condition: on-failure

delay: 60s

max_attempts: 10

window: 120s

environment:

SPRING_PROFILES_ACTIVE: default

SPRING_CONFIG_IMPORT: configserver:http://configserver:8071/

loans:

image: bimal1993/loans:latest

mem_limit: 700m

ports:

- "8090:8090"

networks:

- spring-net

depends_on:

- eureka-server

- mysql-standalone

deploy:

restart_policy:

condition: on-failure

delay: 60s

max_attempts: 10

window: 120s

environment:

SPRING_PROFILES_ACTIVE: default

SPRING_CONFIG_IMPORT: configserver:http://configserver:8071/

cards:

image: bimal1993/card:latest

mem_limit: 700m

ports:

- "9000:9000"

networks:

- spring-net

depends_on:

- eureka-server

- mysql-standalone


deploy:


restart_policy:


```
condition: on-failure
delay: 60s
max_attempts: 10
window: 120s
environment:
  SPRING_PROFILES_ACTIVE: default
  SPRING_CONFIG_IMPORT: configserver:http://configserver:8071/
```


networks:
spring-net:

Request:

POST  http://localhost:8080/myCustomerDetails

authorization Headers (1) **Body**  Pre-request Script Tests

☒ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary **JSON (application/json)** 

1  {

2 "customerId": 1

3 }

```
{
  "accounts": {
    "customerId": 1,
    "accountNumber": 186576453,
    "accountType": "Savings",
    "branchAddress": "123 Main Street, New York",
    "createDt": "2022-07-09"
  },
  "loans": [
    {
      "loanNumber": 3,
      "customerId": 1,
      "startDt": "2021-02-14",
      "loanType": "Home",
      "totalLoan": 50000,
      "amountPaid": 10000,
      "outstandingAmount": 40000,
      "createDt": "2018-02-14"
    },
    {
      "loanNumber": 1,
      "customerId": 1,
      "startDt": "2020-10-13",
      "loanType": "Home",

```

```
    "totalLoan": 200000,
    "amountPaid": 50000,
    "outstandingAmount": 150000,
    "createDt": "2020-10-13"
  },
  {
    "loanNumber": 2,
    "customerId": 1,
    "startDt": "2020-06-06",
    "loanType": "Vehicle",
    "totalLoan": 40000,
    "amountPaid": 10000,
    "outstandingAmount": 30000,
    "createDt": "2020-06-06"
  },
  {
    "loanNumber": 4,
    "customerId": 1,
    "startDt": "2018-02-14",
    "loanType": "Personal",
    "totalLoan": 10000,
    "amountPaid": 3500,
    "outstandingAmount": 6500,
    "createDt": "2018-02-14"
  }
],
"cards": [
  {
    "cardId": 1,
    "customerId": 1,
    "cardNumber": "4565XXXX4656",
    "cardType": "Credit",
    "totalLimit": 10000,
    "amountUsed": 500,
    "availableAmount": 9500,
    "createDt": "2022-07-09"
  },
  {
    "cardId": 2,
    "customerId": 1,
    "cardNumber": "3455XXXX8673",
    "cardType": "Credit",
    "totalLimit": 7500,
    "amountUsed": 600,
    "availableAmount": 6900,
    "createDt": "2022-07-09"
  },
  {

```

```

        "cardId": 3,
        "customerId": 1,
        "cardNumber": "2359XXXX9346",
        "cardType": "Credit",
        "totalLimit": 20000,
        "amountUsed": 4000,
        "availableAmount": 16000,
        "createDt": "2022-07-09"
    }
}
]
}

```

<http://localhost:8071/accounts/default>

```

{
  "name": "accounts",
  "profiles": [
    "default"
  ],
  "label": null,
  "version": "0484f35409d0c637fdf511424fb30646e6607417",
  "state": null,
  "propertySources": [
    {
      "name": "https://github.com/Bimal1993/microservice-config.git/accounts.properties",
      "source": {
        "accounts.msg": "Welcome to the EazyBank Accounts Default application",
        "accounts.build-version": "3",
        "accounts.mailDetails.hostName": "default-accounts@eazybytes.com",
        "accounts.mailDetails.port": "9000",
        "accounts.mailDetails.from": "default-accounts@eazybytes.com",
        "accounts.mailDetails.subject": "Your Account Details from Eazy Bank Default Environment",
        "accounts.activeBranches[0]": "Mumbai",
        "accounts.activeBranches[1]": "London",
        "accounts.activeBranches[2]": "Washington"
      }
    }
  ]
}

```

<http://localhost:9000/cards/properties>

```

{
  "msg" : null,
  "buildVersion" : "3",
  "mailDetails" : {
    "hostName" : "default-cards@eazybytes.com",
    "port" : "9002",
    "from" : "default-cards@eazybytes.com",

```

```
"subject" : "Your Card Details from Eazy Bank Default Environment"  
},  
"activeBranches" : [ "Mumbai", "London", "Washington" ]  
}
```