SETUP

- **Setup to Run application on Local Machine [Eclipse]**
  - Download Eclipse JEE
  - Add cucumber plugin from eclipse marketplace
  - Create a spring project from https://start.spring.io/ and download the zip folder
  - Import unzipped application into eclipse (File -> Import -> Import Existing Maven Project -> select Project folder)
  - Run project as spring boot app

- **Setup to Run application on Local Machine [Docker Image]**
  - Pull Docker images

➢ princi085/cloudloanapply-docker.jar

➢ princi085/cloudloginregistration-docker.jar

  - Run docker images

How to Run

- After setup Go to postman

- **REGISTER**: localhost:8888/register (**postmapping**)
  Enter JSON data in following format in the Body

```
{
    "userId":106,
    "name":"Samrat",
    "password":"pass",
    "address":"106/6afs",
    "country":"India",
    "state":"Uttar Pradesh",
    "email":"samrat@gmail.com",
    "panNumber":"ABCDE66666",
    "contactNumber":1234567890,
    "dateOfBirth":"1990-04-04",
    "typeOfAccount":"Savings"
}
```

- **REGISTER**: localhost:8888/register (**getmapping**)
  Get the account details of all the users

- **REGISTER**: localhost:8888/register/userId (**getmapping**)
  Get the account details of the entered user id

- **LOGIN:** localhost:8888/login (**postmapping**)
  Enter JSON data in following format in the Body

```
{
    "userId":101,
    "password":"pass"
}
```

- **UPDATE (ACCOUNT DETAILS):** localhost:8888/update/userId (**putmapping**)
  Enter JSON data in following format in the Body

```
{
        "userId": 103,
        "name": "Abhishek",
        "password": "pass",
        "address": "103/3afs",
        "country": "India",
        "state": "Tripura",
        "email": "abhishek@gmail.com",
        "panNumber": "ABCDE33333",
        "contactNumber": 1234567890,
        "dateOfBirth": "1990-03-03T00:00:00.000+00:00",
        "typeOfAccount": "Current"
    }
```

- **APPLY LOAN:** localhost:8889/applyLoan (**postmapping**)
  Enter JSON data in following format in the Body

```
 {
        "userId": "106",
        "password": "pass",
        "loanType": "car loan",
        "loanAmount": 600000.0,
        "interestRate": 5.0,
        "duration": 33
    }
```

- **APPLY LOAN**: localhost:8889/applyLoan/userId (**getmapping**)
  Get the loan details of the entered user id

- **SWAGGER DOCUMENTATION**:
  - localhost:8888/swagger-ui.html
  - localhost:8889/swagger-ui.html

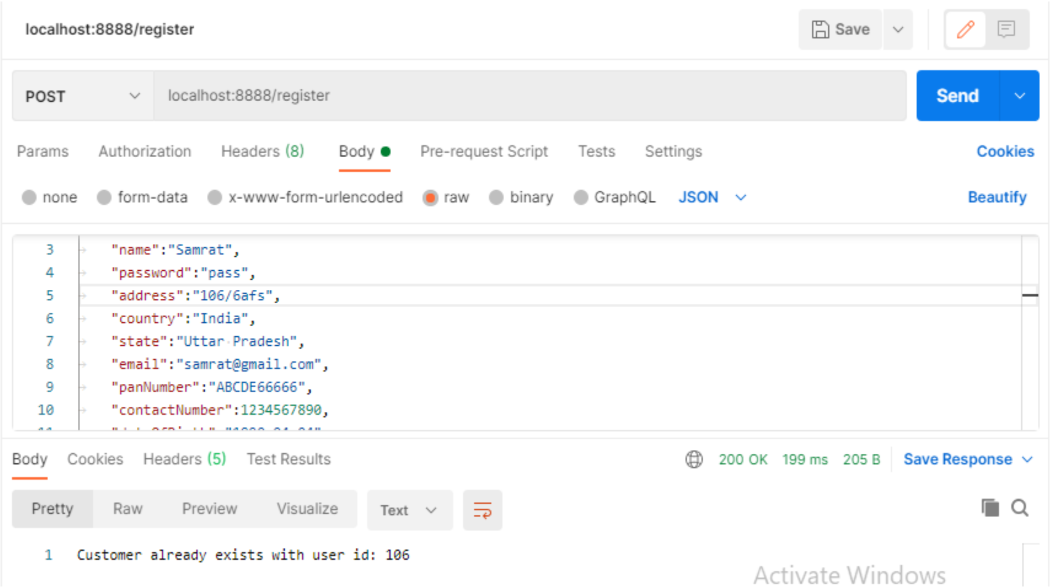
APPLICATION DEPLOYED ON GOOGLE KUBERNETES ENGINE

[To run the deployed applications change " **localhost** " in URL of /register/login/update to "**http://34.93.229.17:8889/** "]

[To run the deployed applications change " **localhost** " in URL of /applyLoan to "**http://34.93.208.30:8888/** "]

SNAPSHOTS

(Register)



localhost:8888/register

POST localhost:8888/register

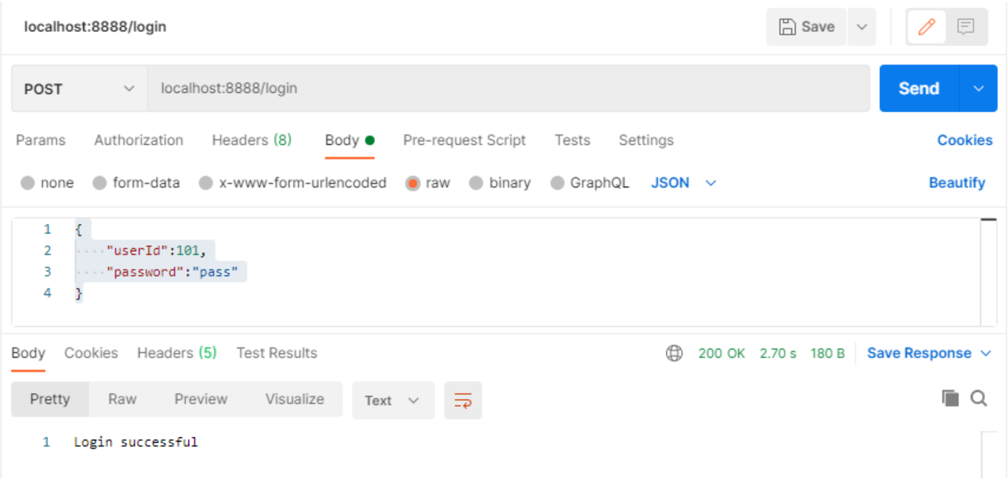
Body: raw JSON

```
"name":"Samrat",
"password":"pass",
"address":"106/6afs",
"country":"India",
"state":"Uttar Pradesh",
"email":"samrat@gmail.com",
"panNumber":"ABCDE66666",
"contactNumber":1234567890,
```

200 OK 199 ms 205 B

```
Customer already exists with user id: 106
```

(Login)



localhost:8888/login

POST localhost:8888/login

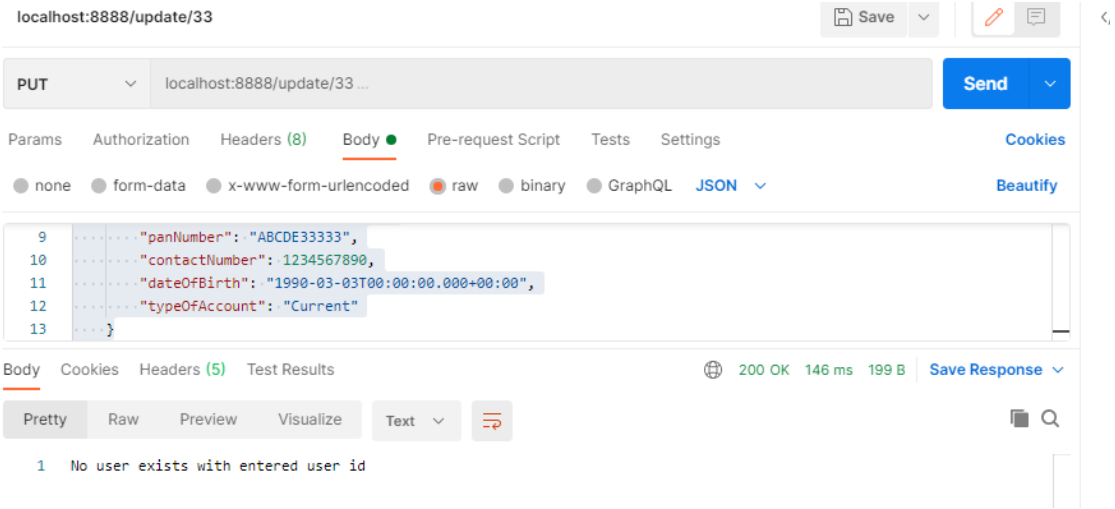
Body: raw JSON

```
{
    "userId":101,
    "password":"pass"
}
```

200 OK 2.70 s 180 B

```
Login successful
```

(Update)



localhost:8888/update/33

PUT localhost:8888/update/33

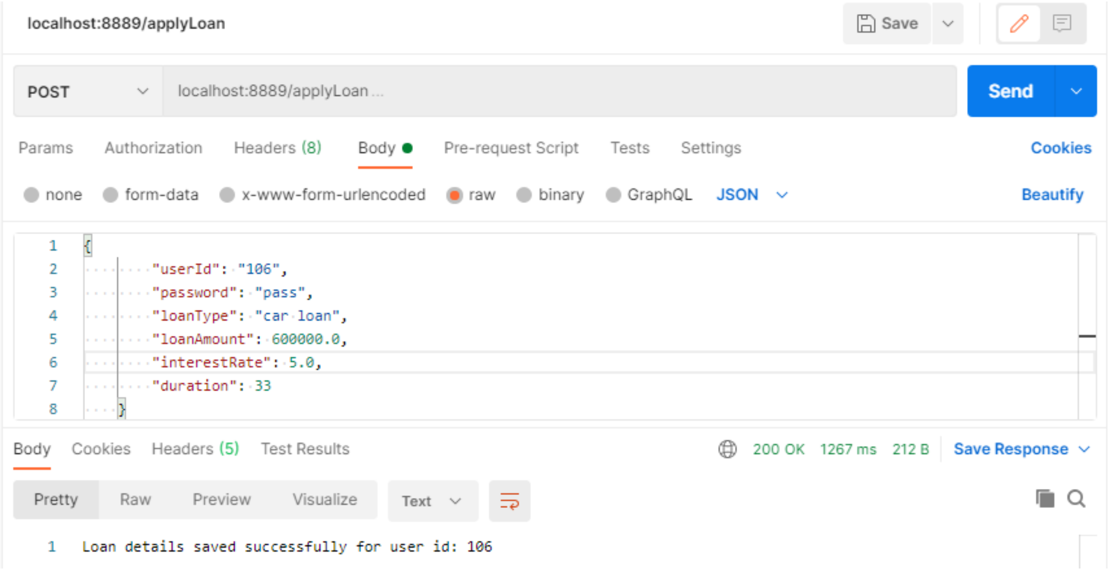
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
        "panNumber": "ABCDE33333",
        "contactNumber": 1234567890,
        "dateOfBirth": "1990-03-03T00:00:00.000+00:00",
        "typeOfAccount": "Current"
    }
```

200 OK 146 ms 199 B

```
No user exists with entered user id
```

(Apply Loan)



localhost:8889/applyLoan

POST localhost:8889/applyLoan

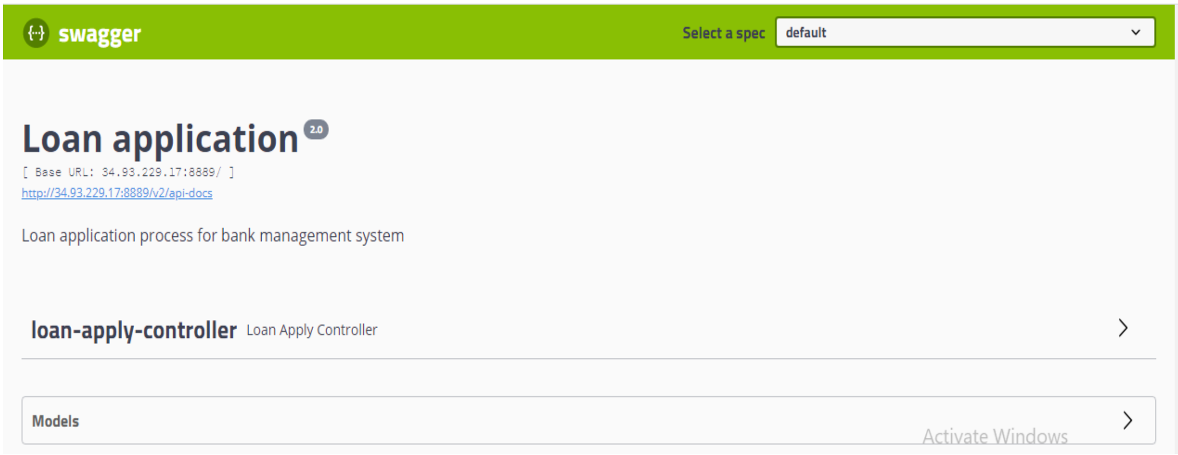
○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON

```
{
        "userId": "106",
        "password": "pass",
        "loanType": "car loan",
        "loanAmount": 600000.0,
        "interestRate": 5.0,
        "duration": 33
    }
```

200 OK 1267 ms 212 B

```
Loan details saved successfully for user id: 106
```

(Swagger Documentation)



Loan application 2.0

[Base URL: 34.93.229.17:8889/]

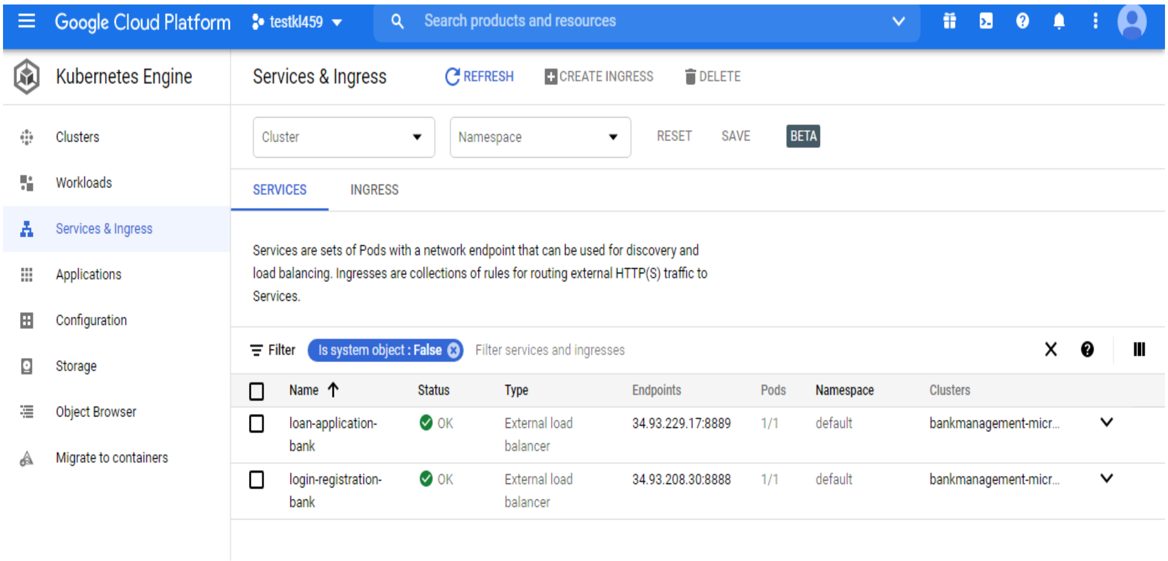
http://34.93.229.17:8889/v2/api-docs

Loan application process for bank management system

loan-apply-controller Loan Apply Controller

Models

(Google Cloud Platform)



Services are sets of Pods with a network endpoint that can be used for discovery and load balancing. Ingresses are collections of rules for routing external HTTP(S) traffic to Services.

□	Name ↑	Status	Type	Endpoints	Pods	Namespace	Clusters	
□	loan-application-bank	✓ OK	External load balancer	34.93.229.17:8889	1/1	default	bankmanagement-micr...	⌄
□	login-registration-bank	✓ OK	External load balancer	34.93.208.30:8888	1/1	default	bankmanagement-micr...	⌄