**Microservice Application Setup**

**Step 1:** Export all the micro services project in eclipse/intellij

**Step 2:** Run Service Registry Project

**Step 3:** Run Config Server Project

**Step 4:** Run API Gateway Project

**Step 5:** Run Hystrix dashboard project

**Step 6:** Run Department service project

**Step 7:** Run user service project

**Step 8:** run below command for zipkin server

java -jar zipkin-server-2.23.4-exec.jar

copy the address on which URL and port the zipkin server is running.

<http://127.0.0.1:9411/> and paste this inside department service and user service application.yml file.

**Step 9:** run <http://localhost:9191/actuator/hystrix.stream> URL to check the Hystrix stream

**Step 10:** copy the Hystrix stream URL and click on below URL and paste the copied stream URL to monitor fault tolerant dashboard

<http://localhost:9295/hystrix>

**Step 11:** Run eureka server at below port

<http://localhost:8761/>

**Step 12:** call API’s on and use below URL

<http://localhost:9191/departments/>

<http://localhost:9191/users/>

**URL:** <http://localhost:9191/departments/>

**Method:** POST

**Request:**

{

    "firstName" : "Krishna",

    "lastName" : "keshari",

    "email" : "kmlk333@gmail.com",

    "departmentId" : "1"

}

**Response:**

{

    "userId": 1,

    "firstName": "Krishna",

    "lastName": "keshari",

    "email": "kmlk333@gmail.com",

    "departmentId": 1

}

**URL:** <http://localhost:9191/departments/>1

**Method:** GET

**Response:**

{

    "departmentId": 1,

    "departmentName": "IT",

    "departmentAddress": "Kachanar ,Rajatalab Varanasi",

    "departmentCode": "IT-006"

}

**URL:** http://localhost:9191/users/

**Method:** POST

**Request:**

{

    "firstName" : "Krishna",

    "lastName" : "keshari",

    "email" : "kmlk333@gmail.com",

    "departmentId" : "1"

}

**Response:**

{

    "userId": 1,

    "firstName": "Krishna",

    "lastName": "keshari",

    "email": "kmlk333@gmail.com",

    "departmentId": 1

}

**URL:** http://localhost:9191/users/1

**Method:** GET

{

    "user": {

        "userId": 1,

        "firstName": "Krishna",

        "lastName": "keshari",

        "email": "kmlk333@gmail.com",

        "departmentId": 1

    },

    "department": {

        "departmentId": 1,

        "departmentName": "IT",

        "departmentAddress": "Kachanar ,Rajatalab Varanasi",

        "departmentCode": "IT-006"

    }

}