Kafka Assignment

Maithreyan K

School processing system
Student-data(ordering is not important) , teachers-data(ordering is not important),
rank-assignment(ordering is important)

Topic - Student
Student- data : process and save the data in DB
     (Student name, id, class)
Topic - Teacher
Teacher-data : process and save the data in DB
     (teachers name, id and what is expertise)
Topic - Rank
Rank-assignment : This want to give rank to the student according to the time of their assignment
submission.
          (student Id, name and the time of submission)

Starting Zookeeper-server

Starting Kafka-server

Controller

```java
@RestController
@RequestMapping(value = "/api")
public class KafkaProducerController {
  private final KafKaProducerService producerService;
  private static int rank = 0;

  @Autowired
  public KafkaProducerController(KafKaProducerService producerService) { this.producerService = producerService; }

  @PostMapping(value = "/student")
  public void createStudent(@RequestBody Student student) { this.producerService.saveStudent(student); }
  @PostMapping(value = "/teacher")
  public void createStudent(@RequestBody Teacher teacher) { this.producerService.saveTeacher(teacher); }
  @PostMapping(value = "/assignment")
  public void createStudent(@RequestBody Assignment assignment) {
    assignment.setSubmissionDate(new Date());
    assignment.setRank(++this.rank);
    this.producerService.saveAssignment(assignment);
  }
}
```

Student1

POST ▼	http://localhost:9000/api/student

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings

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

```
1  {"studentId":1,
2  "studentName":"Maithreyan K",
3  "studentClass":"MSc"}
```

Student 2

POST ▾ http://localhost:9000/api/student

Params | Authorization | Headers (10) | Body ● | Pre-request Script | Tests | Settings

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

```
1  {"studentId":2,
2  "studentName":"Ashwin T",
3  "studentClass":"MSc"}
```

Teacher

POST ▾ http://localhost:9000/api/teacher

Params | Authorization | Headers (10) | Body ● | Pre-request Script | Tests | Settings

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

```
1  {"teacherId":1, "teacherName":"Vinod", "teacherDesig":"Computer Science"}
```

Assignment 1

POST ▾ http://localhost:9000/api/assignment

Params | Authorization | Headers (10) | Body ● | Pre-request Script | Tests | Set

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

```
1  {"studentId":2,
2  "studentName":"Ashwin T"
3  }
```

Assignment 2

Rank

erializer.JsonSerializer

fka.common.utils.AppInfoParser   : Kafka version: 2.5.0
fka.common.utils.AppInfoParser   : Kafka commitId: 66563e712b0b9f84
fka.common.utils.AppInfoParser   : Kafka startTimeMs: 1612104919258
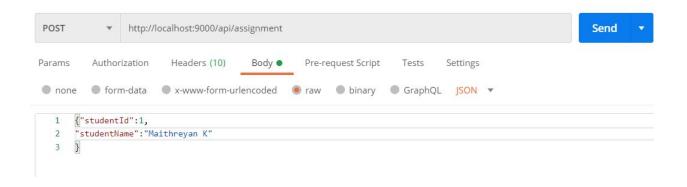ache.kafka.clients.Metadata   : [Producer clientId=producer-1] Cluster ID: zLeNTAXASWGxgC6NU9KLLw
demo.service.KafKaConsumerService : Student created -> Student{studentId=1, studentName='Maithreyan K', studentClass='MSc'}
demo.service.KafKaProducerService : Student created -> Student{studentId=2, studentName='Ashwin T', studentClass='MSc'}
demo.service.KafKaConsumerService : Student created -> Student{studentId=2, studentName='Ashwin T', studentClass='MSc'}
demo.service.KafKaProducerService : Teacher created -> Teacher{teacherId=1, teacherName='Vinod', teacherDesig='Computer Science'}
demo.service.KafKaConsumerService : Teacher created -> Teacher{teacherId=1, teacherName='Vinod', teacherDesig='Computer Science'}
demo.service.KafKaProducerService : Assignment created -> Assignment{studentId=2, studentName='Ashwin T', submissionDate=Sun Jan 31 20:31:17 IST 2021, rank=1}
demo.service.KafKaConsumerService : Assignment created -> Assignment{studentId=2, studentName='Ashwin T', submissionDate=Sun Jan 31 20:31:17 IST 2021, rank=1}
demo.service.KafKaProducerService : Assignment created -> Assignment{studentId=1, studentName='Maithreyan K', submissionDate=Sun Jan 31 20:31:59 IST 2021, rank=2}
demo.service.KafKaConsumerService : Assignment created -> Assignment{studentId=1, studentName='Maithreyan K', submissionDate=Sun Jan 31 20:31:59 IST 2021, rank=2}

Kafka Server Stopped

D:\>kafka-server-stop.bat
Deleting instance \\DESKTOP-EDOST2V\ROOT\CIMV2:Win32_Process.Handle="2492"
Instance deletion successful.

Zookeeper Server Stopped

D:\>zookeeper-server-stop.bat
Deleting instance \\DESKTOP-EDOST2V\ROOT\CIMV2:Win32_Process.Handle="7036"
Instance deletion successful.