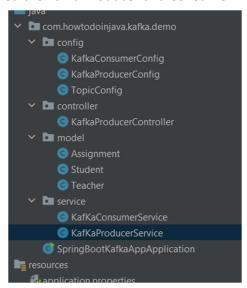
KAFKA Assignment

By Raj Vignesh Karunakaran

1. Started Kafka Zookeeper and Kafka Server in CMD

```
C:\App\kafka_2.12-2.7.0>zookeeper-server-start.bat config/zookeeper.properties
[2021-01-29 21:51:15,998] INFO Reading configuration from: config/zookeeper.properties (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2021-01-29 21:51:16,002] WARN config\zookeeper.properties is relative. Prepend .\ to indicate that you're sure! (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2021-01-29 21:51:16,014] INFO clientPortAddress is 0.0.0.0:2181 (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2021-01-29 21:51:16,014] INFO secureClientPort is not set (org.apache.zookeeper.server.quorum.QuorumPeerConfig)
[2021-01-29 21:51:16,022] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DatadircleanupManager)
[2021-01-29 21:35:16,022] INFO autopurge.snapRetainCount set to 3 (org.apache.zookeeper.server.DatadircleanupManager)
[2021-01-29 21:35:37,360] INFO Registered kafka:type=kafka.Log4jController MBean (kafka.utils.Log4jControllerRegistrations)
[2021-01-29 21:35:37,387] INFO Setting -D jdk.tls.rejectClientInitiatedRenegotiation=true to disable client-initiated TLS renegotiation (org.apache.zookeeper.common.X509Util)
[2021-01-29 21:35:37,385] INFO Starting (kafka.server.KafkaServer)
[2021-01-29 21:35:37,385] INFO Connecting to zookeeper on localhost:2181 (kafka.server.KafkaServer)
[2021-01-29 21:35:37,404] INFO [ZookeeperClient Kafka server] Initializing a new session to localhost:2181. (kafka.zookeeper.ZookeeperClient)
[2021-01-29 21:35:37,409] INFO Client environment:zookeeper.version=3.5.8-f439ca583e70862c3068a1f2a7d4dd068eec33315, buil to 0.5/04/2020 15:33 GMT (org.apache.zookeeper.]
[2021-01-29 21:35:37,410] INFO Client environment:host.name=LAPTOP-U11ADP50 (org.apache.zookeeper.ZooKeeper)
[2021-01-29 21:35:37,410] INFO Client environment:host.name=LAPTOP-U11ADP50 (org.apache.zookeeper.ZooKeeper)
[2021-01-29 21:35:37,410] INFO Client environment:java.version=11.0.9.1 (org.apache.zookeeper.ZooKeeper)
```

2. Created Topic – Student, Teacher, Assignment in Kafka Spring Boot Application and Configured the Kafka Producer and Consumer.



```
22:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO

22:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#1-0-C-1] INFO

22:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#1-0-C-1] INFO

22:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO

23:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO

24:16:11.698 [org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO

25:16:17.698 [org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO
```

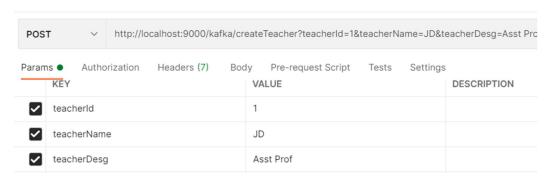
3. Updating Topics with POST request from postman.

a. STUDENT TOPIC

POST	∨ http:	//localhost:9000/ka	nfka/cre	ateStudent?studentId=18	studentN	ame=Raj V	ignesh&studentStd=
Params •	71011101120110	n Headers (7)	Bod	y Pre-request Script VALUE	Tests	Settings	DESCRIPTION
✓ stu	ıdentld			1			
✓ stu	studentName			Raj Vignesh			
✓ stu	ıdentStd			12th			
Ке	у			Value			Description

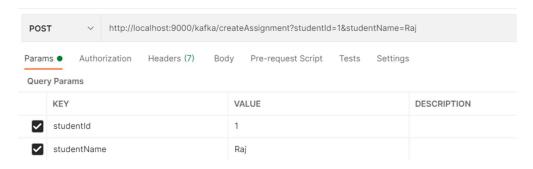
kafka-producer-network-thread | producer-1] INFO org.apache.kafka.clients.Metadata - [Producer clientId=producer-1] Cluster ID: hQqxc5VJQV6t0LGUnGfzbw kafka-producer-network-thread | producer-1] INFO c.h.k.d.service.KafKaProducerService - Student created: Student{StudentId=1, StudentName='Raj Vignesh', StudentStd='12th'} org.springframework.kafka.KafkaListenerEndpointContainer#2-0-C-1] INFO c.h.k.d.service.KafKaConsumerService - Student created -> Student{StudentId=1, StudentName='Raj Vigne

b. TEACHER TOPIC



work-thread | producer-2] INFO org.apache.kafka.clients.Metadata - [Producer clientId=producer-2] Cluster ID: hQqxc5VJQV6tOLGUnGfzbw work-thread | producer-2] INFO c.h.k.d.service.KafKaProducerService - Teacher created: Teacher{TeacherId=1, TeacherName='JD', TeacherDesg='Asst Prof'} wi k.kafka.KafkaListenerEndopintContainer#1-0-C-1] INFO c.h.k.d.service.KafKaConsumerService - Teacher created -> TeacherTeacherId=1. TeacherName='JD', Tea

c. Assignment Topic (Rank based on the time of submission)



INFO org.apache.kafka.clients.Metadata - [Producer clientId=producer-3] Cluster ID: hQqxc5VJQV6t0LGUnGfzbw
INFO c.h.k.d.service.KafKaProducerService - Assignment created: Assignment{StudentId=1, StudentName='Raj', SubmissionTime=Fri Jan 29 22:31:31 IST 2021}
pintContainer#0-0-C-1] INFO c.h.k.d.service.KafKaConsumerService - Assignment created -> Assignment{StudentId=1, StudentName='Raj', SubmissionTime=Fri Ja