Project Setup in Local:

Setting Up Kafka, Redis, and Zookeeper with Docker Compose and Starting the Server

Prerequisite:

a. Ensure **Docker** is installed and running on your local machine.

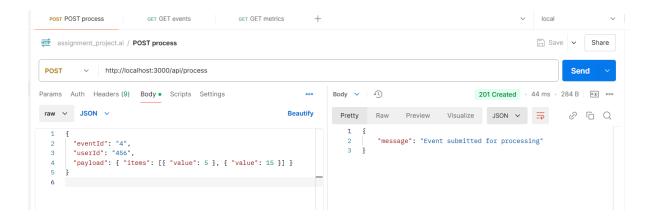
Steps to Set Up and Verify Kafka, Redis, and Zookeeper:

- 1. Navigate to the project directory if not already there.
- 2. **Start Services with Docker Compose:** Open a terminal and execute the following command to bring up Kafka, Redis, and Zookeeper as background services: **docker-compose up -d**
- 3. Verify Services are Running: Check the status of the services by running: docker ps

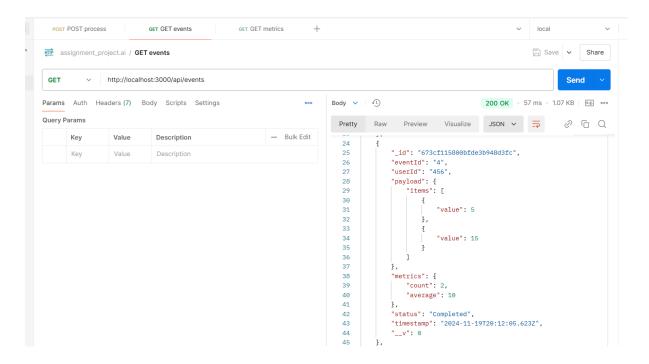
```
PS C:\Pradeep\Assignment> docker ps
COMMANNER
D DMAGE
COMMAND
CREATED
COMMAND
CREATED
STATUS
PORTS
COMMAND
CREATED
STATUS
PORTS
NAMES
ABJ61268aa confluentinc/cp-kafka:7.5.0
"/etc/confluent/dock."
32 seconds ago
Up 31 seconds
Up 32 seconds
Up 33 seconds
Up 34 seconds
Up 35 seconds
Up 36 seconds
Up 37 seconds
Up 37 seconds
Up 38 seconds
U
```

- 4. npm install if node_modules not present
- Start the server by running: node src/server.js

```
POST: http://localhost:3000/api/process
BODY:
{
    "eventId": "4",
    "userId": "456",
    "payload": { "items": [{ "value": 5 }, { "value": 15 }] }
}
```



GET: http://localhost:3000/api/events



GET: http://localhost:3000/api/metrics

