**Kafka Chat Application using .NET Core**

# 1. KafkaChatProducer - Program.cs

using Confluent.Kafka;  
  
Console.WriteLine("Kafka Chat Producer Started...");  
var config = new ProducerConfig  
{  
 BootstrapServers = "localhost:9092"  
};  
  
using var producer = new ProducerBuilder<Null, string>(config).Build();  
  
while (true)  
{  
 Console.Write("You: ");  
 var message = Console.ReadLine();  
 if (message?.ToLower() == "exit") break;  
  
 await producer.ProduceAsync("chat-topic", new Message<Null, string> { Value = message });  
 Console.WriteLine("✅ Message sent!");  
}

# 2. KafkaChatConsumer - Program.cs

using Confluent.Kafka;  
  
Console.WriteLine("Kafka Chat Consumer Started...");  
var config = new ConsumerConfig  
{  
 BootstrapServers = "localhost:9092",  
 GroupId = "chat-group",  
 AutoOffsetReset = AutoOffsetReset.Earliest  
};  
  
using var consumer = new ConsumerBuilder<Ignore, string>(config).Build();  
consumer.Subscribe("chat-topic");  
  
try  
{  
 while (true)  
 {  
 var consumeResult = consumer.Consume();  
 Console.WriteLine($"Friend: {consumeResult.Message.Value}");  
 }  
}  
catch (OperationCanceledException)  
{  
 consumer.Close();  
}

# 3. Sample Output

Producer Console:

You: Hello, how are you?  
 Message sent!

Consumer Console:

Friend: Hello, how are you?