In [1]: `## Author: Yam Jason`

In [2]:
```python
from pyspark.sql import SparkSession

spark = SparkSession\
        .builder\
        .appName("Consumer")\
        .getOrCreate()
```

```
24/09/07 15:10:58 WARN Utils: Your hostname, WeirdSmile. resolves to a loopback addr
ess: 127.0.1.1; using 10.255.255.254 instead (on interface lo)
24/09/07 15:10:58 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another addr
ess
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(ne
wLevel).
24/09/07 15:10:59 WARN NativeCodeLoader: Unable to load native-hadoop library for yo
ur platform... using builtin-java classes where applicable
24/09/07 15:11:00 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempt
ing port 4041.
24/09/07 15:11:00 WARN Utils: Service 'SparkUI' could not bind on port 4041. Attempt
ing port 4042.
```

Consume Messages

In [3]:
```python
sc = spark.sparkContext
sc.addFile("../../../de_classes/event_streaming/KafkaConsumer.py")
```

In [4]:
```python
from KafkaConsumer import KafkaConsumerClass

# Create an instance of KafkaConsumerClass
negativeConsumer = KafkaConsumerClass(bootstrap_servers='localhost:9092'
                                      , topic_name='negativeReviews')
```

In [ ]:
```python
# Consume messages
negativeConsumer.consume_messages()
```

Received message: {'Negative Review': 'item not enough oder got je chat seller has a
sked send enough not enough items but seller doesn t care other people say he says s
omething else send s hard'}
Received message: {'Negative Review': 'so poor service angry seller i ordered but se
ller only gave me i didn t ordered colours then gave all colours return back my mone
y me'}
Received message: {'Negative Review': 'if there no goods you can say you are out sto
ck you can refund money don t deceive'}
Received message: {'Negative Review': 'i ordered pink navy blue colour but i get all
grey color i m quite disappointed not yet use so quality don t know yet'}
Received message: {'Negative Review': 'very bad qualities not layer mask cheap price
comes cheap qualities can be used sake using mask but definitely not protection reas
on'}
Received message: {'Negative Review': 'very thin'}
Received message: {'Negative Review': 'received but top not zipped properly order li
ght green but colour difference what s sell also dark red also pink'}
Received message: {'Negative Review': 'send enough stuff dark brown masks are not de
livered nasty'}
Received message: {'Negative Review': 'i requested dark red they send me pink color
mask not satisfied all next time please check what customer order'}
Received message: {'Negative Review': 'quality very satisfied delivery quickly until
seller'}
Received message: {'Negative Review': 'received item short pack green colour i order
color each colour pack but green colour come pack only'}
Received message: {'Negative Review': 'i already order blue colour but received all
black colour i want make complaint because seller already change blue colour black c
olour'}
Received message: {'Negative Review': 'your mask not good hurt people all'}
Received message: {'Negative Review': 'very thin'}
Received message: {'Negative Review': 'i bought each colour try can say s mix bag th
ere are some thinner some thicker i would avoid light blue purple orange light grey
because those feel thin compared rest rest colours feel better but s not up par best
above average'}
Received message: {'Negative Review': 'very thin layer poor quality'}
Received message: {'Negative Review': 'very thin'}
Received message: {'Negative Review': 'much more comfortable wear compared those nor
mal mask'}
Received message: {'Negative Review': 'alhamdulillah item has arrived but s not same
we ordered another'}
Received message: {'Negative Review': 'thin setically price ordered black headloop c
an be white headloop hurmmm if you are out stock before ship'}
Received message: {'Negative Review': 'ookkkkkk'}
Received message: {'Negative Review': 'ordered received one got wrong colour s forgi
ven btw'}
Received message: {'Negative Review': 'fast delivery quality not bad'}
Received message: {'Negative Review': 'received products good conditions quality not
bad been repurchase seller many times'}
Received message: {'Negative Review': 'package damaged dirty unhygienic throw away a
way not refundable bcos throw away cannot understand why ng packaging dirty conditio
n need returned get refund'}
Received message: {'Negative Review': 'very thin claimed be korea but they are made
china'}
Received message: {'Negative Review': 'send wrong products seller not honour'}
Received message: {'Negative Review': 's really disgusting i bought packs masks only
packs were unpacked when goods arrived businessman so dishonest simply rotten'}
Received message: {'Negative Review': 'initially have some paint smell but then okla

h overall good product value recommended buy non colour type avoid paint smell'}
Received message: {'Negative Review': 'thin'}
Received message: {'Negative Review': 'average quality but colour not bad'}
Received message: {'Negative Review': 'defective'}
Received message: {'Negative Review': 'poor service sent instead when asked refund asked me return refund _'}
Received message: {'Negative Review': 'super thin worst mask ever bought all mask cannot use ban seller'}
Received message: {'Negative Review': 'strong smell lar can t hold'}
Received message: {'Negative Review': 'unfortunately what sent me wrong i ordered earloop masks what delivered head loop not good all when clearly stated order i have sent supplier messages noone has replied am very disappointed i have ordered same supplier many times before i cannot use these so what will i do them'}
Received message: {'Negative Review': 'quality very thin compare others'}
Received message: {'Negative Review': 'my parcel less pack face mask seller told me dispute someone actually i also don t know who i m gonna dispute not seller be aware seller'}
Received message: {'Negative Review': 'goods are up good condition t thank you pd sell flash my delivery fast'}
Received message: {'Negative Review': 'poor quality'}
Received message: {'Negative Review': 'one packet plastic broken'}
Received message: {'Negative Review': 'wrong colour'}
Received message: {'Negative Review': 'less one pack pink mask bought packs pink mask but only get packs masks have strong chemical smell poor quality'}
Received message: {'Negative Review': 'seller did not send blue color mask hope buy again'}
Received message: {'Negative Review': 'colour not same advertised meltblown between waterproof'}
Received message: {'Negative Review': 'nice tetapi thin sngt ckp lys tetapi thin sngt tetapi ok jg'}
Received message: {'Negative Review': 'mask not very thin'}
Received message: {'Negative Review': 'low price s worth buying'}
Received message: {'Negative Review': 'round quality masks are not so good thin nose clip just out can easily causing scratch nose'}
Received message: {'Negative Review': 'cheap price low quality cheating seller not made korea delivery too slow'}
Received message: {'Negative Review': 'very nice thank you seller'}
Received message: {'Negative Review': 'toooo thin maak'}
Received message: {'Negative Review': 'late delivery'}
Received message: {'Negative Review': 'did not recd colour ordered earlier but lazy ask refund lots red tapes involved'}
Received message: {'Negative Review': 'top seller always well done'}
Received message: {'Negative Review': 'bad won t buy again difficult breathe very thin layers also fake brand'}
Received message: {'Negative Review': 'i ordered pcs there can be'}
Received message: {'Negative Review': 'product quality ok just little face mask rope so uncomfortable face ears little pain'}
Received message: {'Negative Review': 'product made china not described'}
Received message: {'Negative Review': 'only not ply'}
Received message: {'Negative Review': 'shop happy ja son purchase deliver quickly'}
Received message: {'Negative Review': 'face mask here quality ok fast shipping can repeat later tq seller'}
Received message: {'Negative Review': 'i order pcs bt i get pcs only i wan refund'}
Received message: {'Negative Review': 'i bought packs headloop masks but up packs'}
Received message: {'Negative Review': 'send me wrong colors'}
Received message: {'Negative Review': 'normal quality delivery fast but wrong colour

given bought navy but given other blue pls double check again so same mistake can be
prevent'}
Received message: {'Negative Review': 'quality not good really'}
Received message: {'Negative Review': 'quality not really abit thin but colour same
pic what i expect'}
Received message: {'Negative Review': 'quality not good very thin'}
Received message: {'Negative Review': 's too thin'}
Received message: {'Negative Review': 'so bad i asked mask didn t go his nose split
mask me i wanted change'}
Received message: {'Negative Review': 'less pack mask order pack up packs only'}
Received message: {'Negative Review': 'did not send goods home'}
Received message: {'Negative Review': 'no good wrong item sent no good please think
twice before you buy'}
Received message: {'Negative Review': 'mask very thick according face not how big'}
Received message: {'Negative Review': 'colour so nice'}
Received message: {'Negative Review': 'speedy delivery nice seller if can come more
faster will take more future'}
Received message: {'Negative Review': 'product very low quality inside too thin i do
n t think there layer inside disappointed'}
Received message: {'Negative Review': 'only get pack'}
Received message: {'Negative Review': 'thank you seller face mask until package ok'}
Received message: {'Negative Review': 'quality entered well but lot plastic packages
broke'}
Received message: {'Negative Review': 'item not enough packages order black green up
black green je'}

In [ ]: ```python
# Close the consumer connection
negativeConsumer.close()
```

In [ ]: ```python
spark.stop()
```

In [ ]: