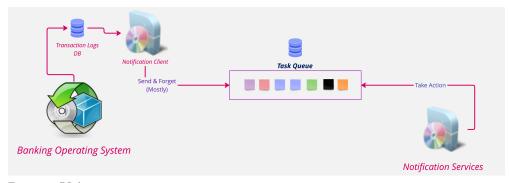
Chapter - 4: Two way Communication

Moving beyond fire and forget



Return_Value

There are genuine reasons to get the results of the actions being done via celery tasks. For e.g. A confirmation of the SMS being actually sent by the celery Task

_ Please Note:- The producers are generally not expected to wait for the results to make the call Asynchronous, we are doing it here only for the example use cases_

There are two ways to do it

1. Inline Waiting for the notification

This is equivalent to having a blocking call

2. Look for notification later

Once we complete the work we're doing (banking transaction here), then we can get the information about the notifications being sent

In the case of RabbitMQ, celery uses RPC to return back the results. Celery does it automatically without any manual change in RabbitMQ. We just need to make sure that we provide the place for the same_

Here is how the RPC backend can be used in the celery.

```
app = Celery('cel_main', backend='rpc://', broker='pyamqp://')
```

Here is how the changed files will look like

Example: 1

Return_Value

Also, we don't need to consume the return value immediately, we can do it later also

-

Example: 2

```
sms_sent_status = None
whatsapp_sent_status = None
# Deposit money into the bank account and send the sms & whatsapp
def deposit_and_send_sms(account_no, amount, message):
   bank_deposit_money(account_no, amount)
   # send SMS and WhatsApp
   global sms_sent_status
   sms_sent_status = task_send_sms.delay(account_no, message)
    global whatsapp_sent_status
   whatsapp_sent_status = task_send_whatsapp.delay(account_no, message)
def check_sms_whatsapp_status():
   time.sleep(10)
    print("SMS Status: ", sms_sent_status.get())
    print("WhatsApp Status: ", whatsapp_sent_status.get())
if __name__ == "__main__":
    deposit_and_send_sms(1234, 5000, "Your account has been credited with $5000")
    # check the status of the SMS and WhatsApp
    check_sms_whatsapp_status()
```

Return_Late

you can also check the status of tasks whether its completed or not

Instead of .delay(), use apply_async to run the same code as(1) and emulate the sequential behaviour without turning off the concurrency