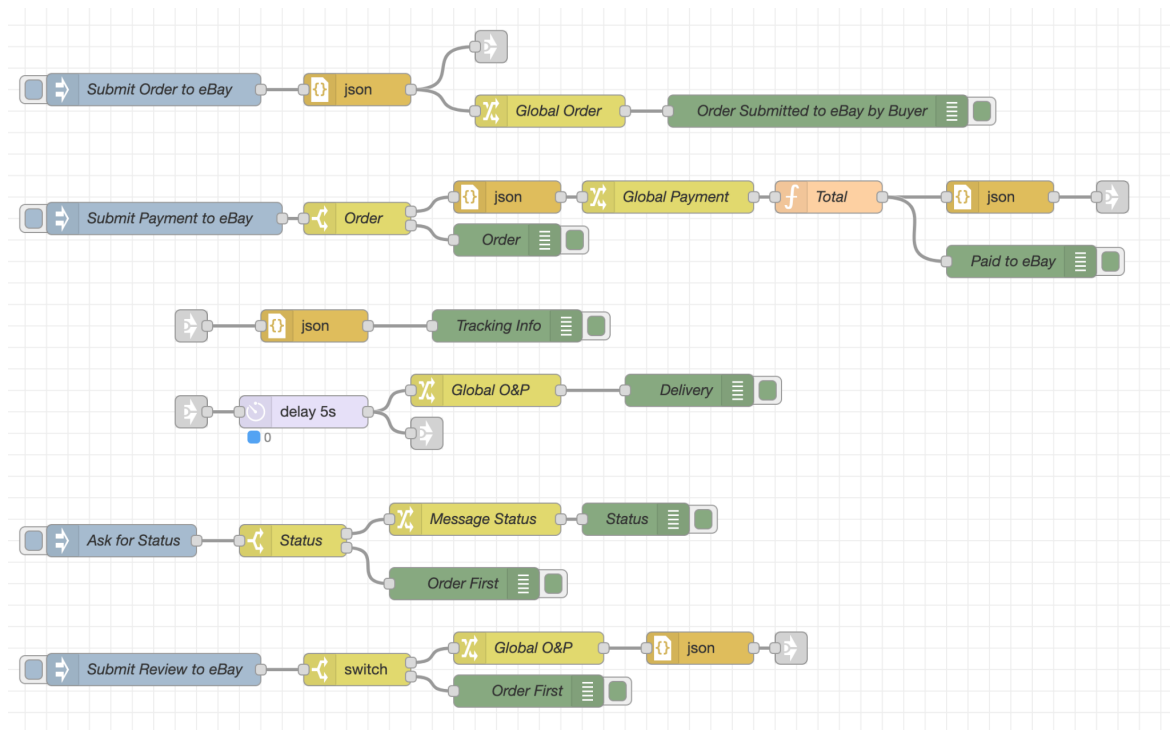


## Scenario:

There are 5 different flows connected with the link in and link out nodes. Each flow represents an entity, message flow and its functionalities. The flow represents the workflow of transactions on eBay.

Following are the flows:

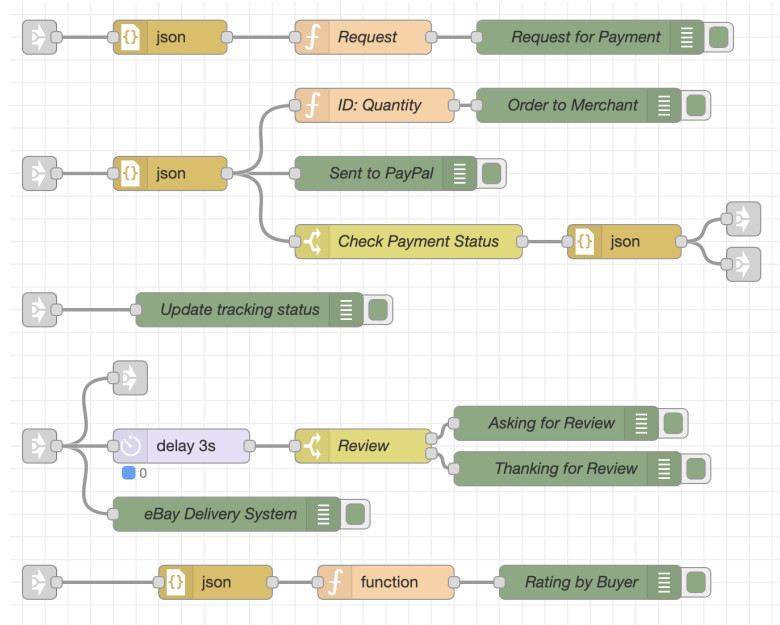


## Buyer

The buyer can submit the order, pay the payment to eBay, ask for the status of the order and submit a review of the product to eBay.

When the order is placed, the buyer will be notified with a message to submit the payment. As the buyer submits the payment, the process starts. Each process will be notifying you with a message giving the confirmation of completion. The buyer can request for the status of the order anytime once the order is placed. The buyer can submit the review of the item after the order has been placed. It will also request you with the notification or message once the item has been delivered to submit the review if not reviewed.

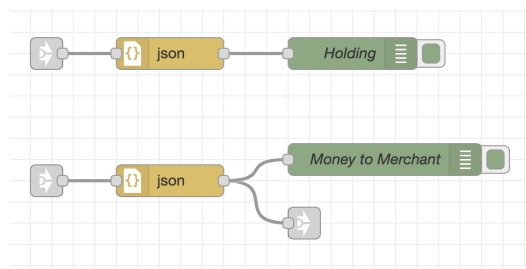
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## eBay

eBay is the medium or platform of communication between the merchant and buyer, which handles the payments, deliveries and also providing tracking information.

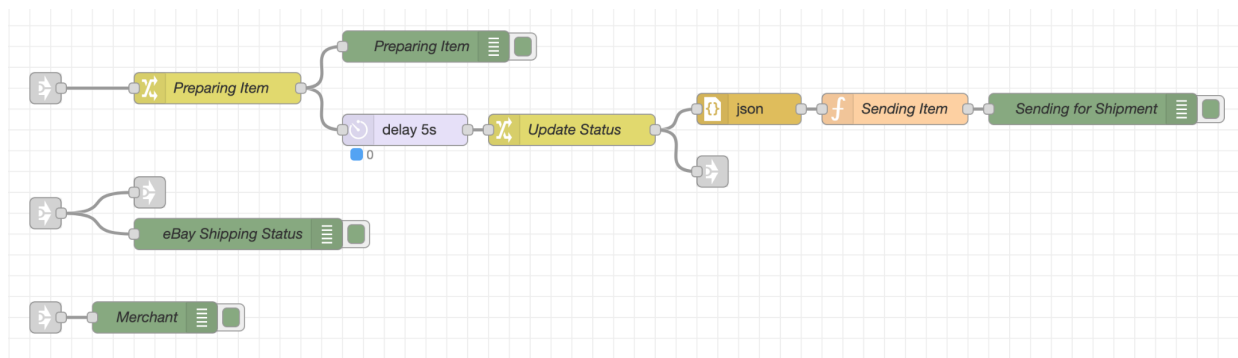
Once the order is placed by the buyer, eBay notifies with a message to submit the payment if not done yet. Once the payment is submitted, it will send the order details to the Merchant and money to Paypal. The money will be under hold until the item is delivered to the buyer which will be notified by eBay. There will be from time to time an update of the shipping status of the item. Once the item is delivered, it will request for the review if it has not been reviewed by the buyer yet. The delivery notification will be sent to Paypal to unhold the money and send it to the merchant. Once the buyer submits the review, the review of the product will be posted.



## PayPal

The PayPal flow will handle the payment. It will receive the payment from eBay and hold it until it is notified by eBay about the delivery confirmation. Once the notification is received, it will send the money to the merchant. It sends a message to show when the transactions have been made.

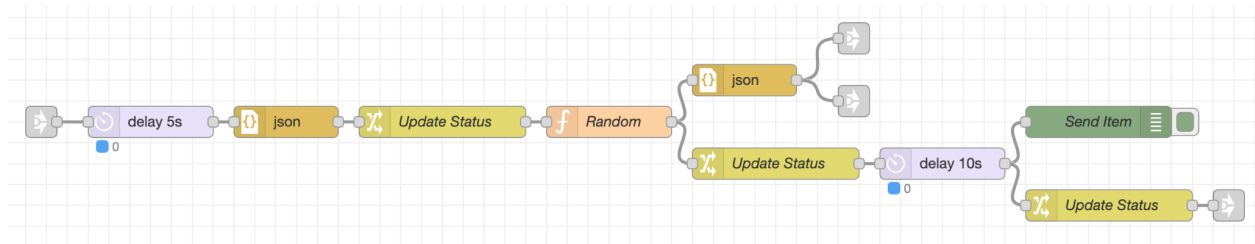
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Assignment-1



### Merchant

The Merchant flow will receive the order details from eBay, notification from PayPal, send the item to shipment service and also updates about the shipping status.

Merchant will receive the order details from eBay and start preparing the item. It will update the status of the order. The Merchant will send the item for shipment once the order has been prepared. It will send the shipping details to eBay once it receives the status from Shipping service. It will receive funds from Paypal only after the item has been delivered to the buyer.



### Shipping Service

The shipping service will generate a label which is a tracking ID, packs and ships the item and also provides the tracking information.

Shipping service generates a label using random (which is a Tracking ID) once it receives the item from the merchant. It will pack and ship the item to the buyer. The shipping service notifies you with a message to the merchant from time to time about the item and the shipment. The shipment status will be updated and sent to both merchant and buyer.

### Enactments:

Each and every transaction, important information in the flow can be seen always in the debug area as a message.

- The payment can be done only when an order is placed
- The review of the item can be given only after the item has been ordered
- The review of the item can be submitted only once before or after the item has been delivered
- The status of the order can be requested only after the order has been placed and before the item has been delivered to the buyer
- The whole workflow starts or triggered only after the payment has been submitted

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#### Assignment-1

- The money is always under hold at the PayPal and will be sent to the merchant only the item has been delivered
- The tracking information is sent to the merchant and buyer by the shipping service
- The shipment status is updated to eBay by the merchant
- Once the item is delivered to the buyer, the buyer can place another order
- Reviewing the item, status of the order and payment can be done only when there is an order placed