

# Floww API Documentation Version 1.0.0

Base URL {base\_url} for test requests: <https://gofloww.co/api/test/>

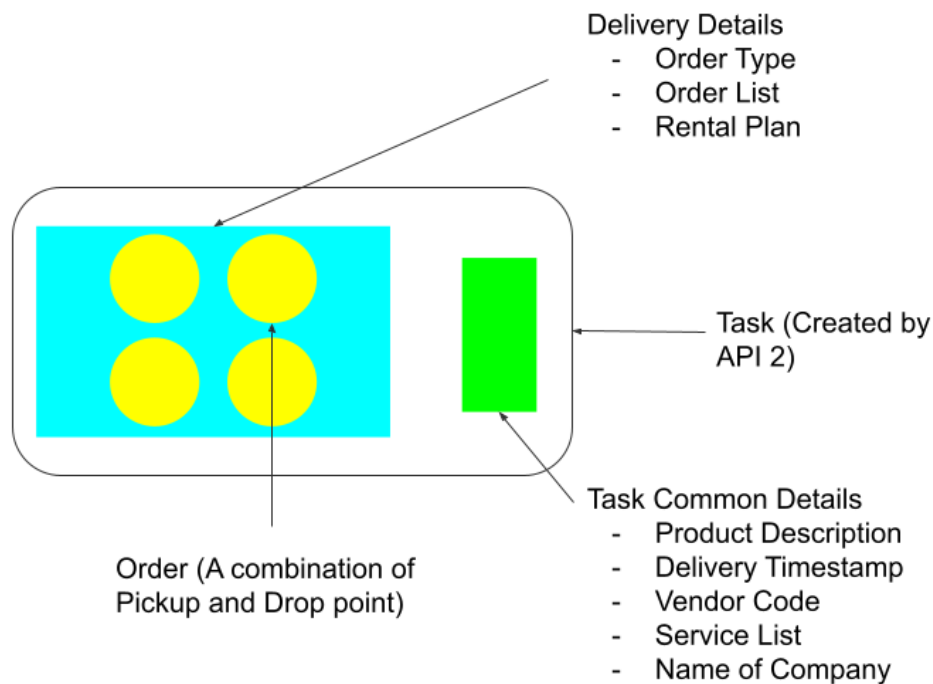
Base URL {base\_url} for floww version 1 production requests: <https://gofloww.co/api/v1/>

## Overview

The floww APIs lets you send delivery requests to 3PL vendors and manage your delivery requests.

Apps can integrate with the floww APIs to automate their delivery management and create a two way information path between your Web / Android / iOS application and a 3PL vendor of your choosing, with industry standard APIs.

These are REST APIs with each API mentioning the request method it allows.



The diagram above depicts the structure of a Task, which is the core object that is used to send delivery requests to 3PL vendors.

# Table of Content

1. [Authorization](#)
2. [Error And Status Codes](#)
3. [API 1 - Estimate Task Cost](#)
4. [API 2 - Request Deliveries](#)
5. [API 3 - Get Task Details](#)
6. [API 4 - Get Order Details](#)
7. [API 5 - Edit Order Instruction](#)
8. [API 6 - Cancel Orders](#)
9. [API 7 - Track Order](#)
10. [Appendix](#)
  - a. [3rd Party](#)
  - b. [API Usage Limit](#)
  - c. [Technical Feedback Form](#)

# Authorization

## How to Get API Key

In order to use floww APIs, please get the API key for your account from the [floww Search Page](#) as shown below.

**NOTE:** Everytime you click on get new API Key, any previous API Key you might have, gets depreciated.

## How to use API Key

With every API call, the active\*\* API Key must be added in Header as shown below.

Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b

Where “**Token + white space + API Key**” is a string.

[Click here](#) to see an example of usage of API key in an API.

\*\* active means, the latest API key you have requested from floww Search page

## Error And Status Codes

The error message to any API would be in below format, except when the status code is 500 and the server doesn't send any response.

### JSON Response:

```
{
  "status": 301,
  "error": "order_id_not_found",
  "message": "Order Details not found",
}
```

### Description

**status** - The error code that would be in the body of the response and also as status code of the response.

**error** - Predefined error code, with its description shown in the table below.

**message** - Detailed description of error with some insights for developers.

### Status Codes and Their Meaning

**200** - OK: Everything went as planned.

**201** - Created: Resource created.

**304** - Not Modified: Resource hasn't been updated since the date provided.

**400** - Bad Request: You did something wrong. Often a missing argument or parameter.

**401** - Unauthorized: Authentication was incorrect.

**403** - Forbidden: User does not have permission for this function.

**404** - Not Found: API not found

**429** - Too Many Requests.

**500** - Internal Server Error: We had a problem processing the request.

**503** - Service Unavailable: Try again later.

### API wise error Description

#### 1. API 1 - Estimate Task Cost

error code	Description
vendor_code_not_found	Either vendorCode is not sent or parameter name is misspelt
order_list_structure_error	The order object structure inside orderList is wrong
vendor_not_found	vendorCode is invalid
address_invalid	Pickup or Drop address could not be found by <b>Google</b>

rental_plan_not_found	Either rentalPlan is not sent or parameter name is misspelt
rental_plan_invalid	Rental Plan is invalid, please send plan from <a href="#">this</a> list
order_type_invalid	This orderType is not supported by vendor, please contact the vendor for clarification

## 2. API 2 - Request Deliveries

error code	Description
vendor_code_not_found	Either vendorCode is not sent or parameter name is misspelt
vendor_not_found	vendorCode is invalid
vendor_unresponsive	Vendor is not taking any orders. Please contact the vendor
task_not_created	Due to server error, Task could not be created
address_invalid	Pickup or Drop address could not be found by <b>Google</b>
product_invalid	productDescription is not from this <a href="#">list</a>
delivery_timestamp_invalid	Delivery timestamp is before the current time, please check
service_tag_invalid	Some Service tag in serviceList is invalid according to floww documentation
service_list_format_invalid	serviceList is of incorrect format, please check documentation
order_list_structure_error	The order object structure inside orderList is wrong
rental_plan_invalid	rentalPlan is not from the list in Docs
order_type_invalid	This orderType is not supported by vendor, please contact the vendor for clarification

## 3. API 3 - Get Task Details

error code	Description
task_id_not_found	Either taskId is not sent or parameter name is misspelt
task_not_found	taskId not found in database, please check

## 4. API 4 - Get Order Details

error code	Description
order_id_not_found	Either orderId is not sent or parameter name is misspelt
order_not_found	orderId not found in database, please check

## 5. API 5 - Edit Order Instruction

error code	Description
order_id_not_found	Either orderId is not sent or parameter name is misspelt
order_not_found	orderId not found in database, please check
instruction_not_found	Either instruction is not sent or parameter name is misspelt

## 6. API 6 - Cancel Orders

error code	Description
order_list_not_found	Either orderList is not sent or parameter name is misspelt
order_list_structure_error	orderList array structure seems incorrect

## 7. API 7 - Track Order

error code	Description
order_id_not_found	Either orderId is not sent or parameter name is misspelt
order_not_found	orderId not found in database, please check
status_not_found	There are no statuses saved in database for this order

## API 1 - Estimate Task Cost

- API method **POST**
- URL - {base\_url}/get-cost-estimate/
- Description: Send the task (Set of orders) details with vendor code to get price estimate of the task (all orders combined in the task) according to the pricing set by Vendor.

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>vendorCode</b>	<i>string</i>	Vendor Code of the 3PL vendor to be obtained from floww Search	<b>[Required]</b>
<b>orderType</b>	<i>string</i>	perOrder or rental	rental
<b>orderList</b>	<i>list</i>	List of order details, pickup and drop information in format as shown <a href="#">here</a> or can be seen in the example below.	null
<b>rentalPlan</b>	<i>string</i>	Rental plan tag to be selected from the list shown <a href="#">here</a> .	plan0

### Response Parameters

Parameter Name	Data Type	Description
<b>estimatedCost</b>	<i>float</i>	Estimated cost for orderList sent in request. These are only estimates, please contact the vendor for precise costing.
<b>currency</b>	<i>string</i>	Currency Code for estimated cost value, eg. INR
<b>usageWarnings</b>	<i>string</i>	Any warning that is observed in the pattern of orders sent, like few orders are of different cities.

### Example:

To get the cost estimates for your set of deliveries. These costs are indicative and are based on the tariff chart data provided by the 3PL provider (your delivery partner)

### CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "vendorCode": "VEN4234",
  "orderType": "perOrder",
  "orderList": [
    {"pickup": "F-205", "pickupPincode": 400076, "pickupNo": "9999999999", "drop": "F-205",
    "dropPincode": 400076, "dropNo": "99999", "weight": 7.2, "instruction": "Delivery to watchman"},
    {"pickup": "H-203, Shalimar Tower", "pickupPincode": 400076, "pickupNo": "9999999999", "drop":
    "L-35, Garden Society, Mumbai", "dropPincode": 400076, "dropNo": "9999988888", "weight": 0.2,
    "instruction": "Delivery to watchman"},
  ]
}' "https://goflowww.co/api/v1/get-cost-estimate"
```

### JSON Response:

```
{
  "estimatedCost": 248.3,
  "currency": "INR",
  "usageWarnings": "The orders are scattered, thus may get high cost",
}
```



## API 2 - Request Deliveries

- API method **POST**
- URL - {base\_url}/request-deliveries/
- Description: Send task details to the delivery vendor defined by the vendor code

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>vendorCode</b>	<i>string</i>	Vendor Code of the 3PL vendor to be obtained from floww Search	<b>[Required]</b>
<b>productDescription</b>	<i>string</i>	Product tag to be selected from the list shown <a href="#">here</a> .	product0
<b>companyName</b>	<i>string</i>	Company name to be displayed to 3PL	New Company
<b>deliveryTimestamp</b>	<i>string</i>	Desired Timestamp in seconds, by which completion of delivery is requested from 3PL vendor (length - 10 digits)	current_timestamp + 86400 seconds (24 hour offset, i.e, next day)
<b>orderType</b>	<i>string</i>	perOrder or rental	rental
<b>orderList</b>	<i>list</i>	List of order details, pickup and drop information in format as shown <a href="#">here</a> or can be seen in the example below.	null
<b>rentalPlan</b>	<i>string</i>	Rental plan tag to be selected from the list shown <a href="#">here</a> .	plan0
<b>serviceList</b>	<i>list</i>	Different service tags needed from 3PL vendor, as an array. Please see all tags <a href="#">here</a> . Send a service tag only if it is supported by that particular vendor.	null

## Response Parameters

Parameter Name	Data Type	Description
<b>status</b>	<i>float</i>	success or failure based on if the task is generated or not
<b>taskId</b>	<i>string</i>	System Generated, used later for getting information from get-task-detail API. If status is failure, taskId is null

## Example:

To get the cost estimates for your set of deliveries. These costs are indicative and are based on the tariff chart data provided by the 3PL provider (your delivery partner)

## CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "vendorCode": "VEN4234",
  "productDescription": "product0",
  "companyName": "Bingo Vegetables",
  "deliveryTimestamp": "1639857067",
  "orderType": "perOrder",
  "orderList": [
    {"pickup": "F-205", "pickupPincode": 400076, "pickupNo": "9999999999", "drop": "F-205",
    "dropPincode": 400076, "dropNo": "99999", "weight": 7.2, "instruction": "Delivery to watchman"},
    {"pickup": "H-203, Shalimar Tower", "pickupPincode": 400076, "pickupNo": "9999999999", "drop":
    "L-35, Garden Society, Mumbai", "dropPincode": 400076, "dropNo": "9999988888", "weight": 0.2,
    "instruction": "Delivery to watchman"},
  ],
  "rentalPlan": "plan0",
  "serviceList": [
    "otp", "same_day",
  ],
}' "https://goflowww.co/api/v1/request-deliveries"
```

JSON Response:

```
{  
  "status": "success",  
  "taskId": "TASK-0000236",  
}
```

## API 3 - Get Task Details

- API method **GET**
- URL - {base\_url}/get-task-details/
- Description: Get all the information regarding any particular task, including the list of the pickup and drop combinations called orders.

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>taskId</b>	<i>string</i>	System Generated task ID received as response from request deliveries API	<b>[Required]</b>

### Response Parameters

Parameter Name	Data Type	Description
<b>vendorCode</b>	<i>string</i>	Vendor Code of the 3PL vendor to be obtained from floww Search
<b>vendorName</b>	<i>string</i>	Name of the 3PL vendor the task is assigned to
<b>vendorContactNo</b>	<i>string</i>	Contact No of the 3PL vendor the task is assigned to
<b>vendorWebLink</b>	<i>string</i>	URL of vendor online store
<b>productDescription</b>	<i>string</i>	Product tag to be selected from the list shown here.
<b>companyName</b>	<i>string</i>	Company name to be displayed to 3PL
<b>contactNo</b>	<i>string</i>	Contact No by which you have registered on floww Search.
<b>estimatedCost</b>	<i>float</i>	Estimated Cost of the task based on predefined price of the 3PL vendor
<b>correctedCost</b>	<i>float</i>	Cost that is set for this task by the vendor on floww Connect app. This is not for any billing purpose, just for reference. It can be null in case the vendor has not added the cost he is going to charge.
<b>currency</b>	<i>string</i>	Currency Code for estimated cost value, eg. INR
<b>deliveryTimestamp</b>	<i>string</i>	Desired Timestamp in seconds, by which

		completion of delivery is requested from 3PL vendor. (length - 10 digits)
<b>taskTimestamp</b>	<i>string</i>	Timestamp when this task was created in seconds
<b>orderType</b>	<i>string</i>	perOrder or rental
<b>orderList</b>	<i>list</i>	List of order details, pickup and drop information in format as shown <a href="#">here</a> or can be seen in the example below.
<b>rentalPlan</b>	<i>string</i>	Rental plan tag to be selected from the list shown <a href="#">here</a> .
<b>serviceList</b>	<i>list</i>	Different service tags as an array, provided while placing the task and also checked if the vendor has those tags. Please see all tags <a href="#">here</a> . Send a service tag only if it is supported by that particular vendor.

### Example:

To get all the details of a task, with an taskId

### CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "taskId": "TASK-0000236",
}' "https://gofloww.co/api/v1/get-task-details"
```

### JSON Response:

```
{
  "vendorCode": "VEN4234",
  "vendorName": "JS Transport",
  "vendorContactNo": "989898989898",
  "vendorWebLink": "https://store.gofloww.co/js-transport/",
  "productDescription": "product0",
  "companyName": "Bingo Vegetables",
  "contactNo": "9090909090",
  "estimatedCost": 208.4,
  "correctedCost": 238,
```

```
{
  "currency": "INR",
  "deliveryTimestamp": "1639857067",
  "taskTimestamp": "1639827067",
  "orderType": "perOrder",
  "orderList": [
    {
      "orderId": "ORD-000123", "pickup": "F-205", "pickupPincode": 400076, "pickupNo":
      "9999999999", "drop": "F-205", "dropPincode": 400076, "dropNo": "99999", "weight": 7.2,
      "instruction": "Delivery to watchman"},
    {
      "orderId": "ORD-000123", "pickup": "H-203, Shalimar Tower", "pickupPincode": 400076,
      "pickupNo": "9999999999", "drop": "L-35, Garden Society, Mumbai", "dropPincode": 400076,
      "dropNo": "9999988888", "weight": 0.2, "instruction": "Delivery to watchman"},
  ],
  "rentalPlan": "plan0",
  "serviceList": [
    "otp", "same_day",
  ],
}
```

## API 4 - Get Order Details

- API method **GET**
- URL - {base\_url}/get-order-details/
- Description: Get all the information regarding any particular order, i.e. the pickup and drop combination.

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>orderId</b>	<i>string</i>	System Generated order ID from orderList received as response from get task details API	<b>[Required]</b>

### Response Parameters

Parameter Name	Data Type	Description
<b>orderId</b>	<i>string</i>	System Generated order ID from orderList received as response from get task details API
<b>taskId</b>	<i>string</i>	System Generated task ID that this order is a part of.
<b>pickup</b>	<i>string</i>	Address of pickup point
<b>pickupPincode</b>	<i>integer</i>	Pincode of pickup point
<b>pickupNo</b>	<i>string</i>	Contact number of the person to be contacted at the pickup point
<b>drop</b>	<i>string</i>	Address of drop point
<b>dropPincode</b>	<i>string</i>	Pincode of drop point
<b>dropNo</b>	<i>string</i>	Contact number of the person to be contacted at the drop point
<b>weight</b>	<i>float</i>	Weight of the parcel in kg
<b>instruction</b>	<i>float</i>	Any information that is to be conveyed to 3PL vendor regarding this particular order
<b>orderStatusList</b>	<i>list</i>	List of status of order with timestamp of when that status was added. The format of this list is shown <a href="#">here</a> . The last status object in the list is the latest status. All possible status of an order are shown <a href="#">here</a> .

## Example:

To get all the details of an order with an orderId

## CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "orderId": "ORD-0000236",
}' "https://goflowww.co/api/v1/get-order-details"
```

## JSON Response:

```
{
  "orderId": "ORD-0000236",
  "taskId": "TASK-00000231",
  "pickup": "H-203, Shalimar Towers, Mumbai",
  "pickupPincode": 400076,
  "pickupNo": "9910530300",
  "drop": "F-32, Megapolis Society, Mumbai",
  "dropPincode": 400084,
  "dropNo": "9090909090",
  "weight": 3.1,
  "instruction": "Leave it with the watchman",
  "orderStatusList": [
    {"status": "requested", "timestamp": "1639827067"},
    {"status": "enroute", "timestamp": "1639828067"},
    {"status": "completed", "timestamp": "1639829067"},
  ],
}
```



## API 5 - Edit Order Instruction

- API method **POST**
- URL - {base\_url}/edit-order-instruction/
- Description: Edit the instruction added on each order inside a task

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>orderId</b>	<i>string</i>	System Generated order ID from orderList received as response from get task details API	<b>[Required]</b>
<b>instruction</b>	<i>string</i>	Update Any information that is to be conveyed to 3PL vendor regarding this particular order	<b>null</b>

### Response Parameters

Parameter Name	Data Type	Description
<b>status</b>	<i>string</i>	success or failure based on if the instruction is updated or not

### Example:

To get all the details of an order with an orderId

### CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "orderId": "ORD-0000236",
  "instruction": "This order is in a red box and leave it with watchman",
}' "https://goflowww.co/api/v1/edit-order-instruction"
```

### JSON Response:

```
{
  "status": "success",
}
```

## API 6 - Cancel Orders

- API method **POST**
- URL - {base\_url}/cancel-orders/
- Description: Cancel multiple orders at once, even if those are of different tasks.

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b><i>orderList</i></b>	<i>list</i>	An array of orderId's that need to be cancelled	<b>[Required]</b>

### Response Parameters

Parameter Name	Data Type	Description
<b><i>status</i></b>	<i>string</i>	success or failure based on if the instruction is updated or not
<b><i>notCancelled</i></b>	<i>list</i>	Array of orderId's that could not be cancelled due to some error. This parameter would be null if status above is success.

### Example:

To cancel orders that are in the orderList with only orderId in the list.

### CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "orderList": [
    "ORD-0000236", "ORD-00000211", "ORD-00000211",
  ]
}' "https://goflowww.co/api/v1/cancel-orders"
```

### JSON Response:

```
{
  "status": "failure",
  "notCancelled": ["ORD-00000211", "ORD-00000211"]
}
```

## API 7 - Track Order

- API method **GET**
- URL - {base\_url}/track-order/
- Description: Get current status and timestamp of when that status was added, of the order.

### Request Parameters

Parameter Name	Data Type	Description	Default Value
<b>orderId</b>	<i>string</i>	System Generated order ID from orderList received as response from get task details API	<b>[Required]</b>

### Response Parameters

Parameter Name	Data Type	Description
<b>orderStatus</b>	<i>string</i>	Latest Status of the order. All possible status of an order are shown <a href="#">here</a> .
<b>orderTimestamp</b>	<i>string</i>	Timestamp in seconds when this latest status was added to the order by the 3PL vendor (length - 10 digits)

### Example:

To get the status of an order, use this API.

### CURL Request:

```
curl -X POST \
-H 'Authorization: Token 9944b09199c62bcf9418ad846dd0e4bbdfc6ee4b' \
-H 'Content-Type: application/json' \
-d '{
  "orderId", "ORD-00000211",
}' "https://goflowww.co/api/v1/track-order"
```

### JSON Response:

```
{
  "orderStatus": "requested",
  "orderTimestamp": "1639827067",
}
```

## Appendix

### Order Object

Order is the combination of one pickup and drop point, thus one delivery. These may be clubbed together by 3PL, and thus it can be sent in the form of one task (list of orders) which the 3PL vendor would know to try to deliver together.

**NOTE:** When getting the orderList as response from get-task-details API, each order object would also contain orderId parameter which is string and can be used with order specific APIs.

Parameter	Data Type	Description
pickup	string	Pickup address of this order
pickupPincode	Integer	Pincode of Pickup address
pickupNo	string	Contact Number of person to be contacted at pickup point
drop	string	Drop address of this order
dropPincode	integer	Pincode of Drop address
dropNo	string	Contact Number of person to be contacted at drop point
weight	float	Estimated weight of the parcel to be delivered in this order
instruction	string	Any information that is to be conveyed to 3PL vendor regarding this particular order

### Rental Plans

More rental plans are coming soon.

Tag	Description
plan0	Rent of vehicle and driver for 4 hours upto 60km

## Product Description

Different tags for different categories of products are shown below. This helps 3PL vendors better understand the delivery, leading to a better delivery experience for everyone.

Product Tag	Product Description
product0	<b>Others:</b> Any product that cannot be fit in below categories, or if no info is provided, the order would be defaulted to this product tag
product1	<b>Fruits &amp; Vegetables:</b> Raw and perishable fresh products, delivery in time bound scenario is needed
product2	<b>Groceries:</b> FMCG products (excluding perishable products like fruits & vegetables, and frozen products)
product3	<b>Pharma:</b> Includes medicines and relevant products
product4	<b>Foods:</b> Cooked and perishable, to be delivered in time critical scenarios
product5	<b>Apparels:</b> Clothes, bags, and other fashion based products including personal grooming products
product6	<b>Electronics:</b> Electronic appliances, to be handled carefully while delivery
product7	<b>Refrigerated Goods:</b> Like fish, poultry, frozen foods, etc. Should be done with cold chain delivery
product8	<b>Gifts &amp; Luxury:</b> Extremely delicate products, that need to be handled carefully

## Service Tags List

These are the tags for particular services. But before sending these through request-deliveries API, please confirm with the 3PL vendor whom you are requesting the delivery from. You can check the services from the 3PL vendor website using [floww Search](#).

Service Tag	Description
otp	OTP verification at delivery
same_day	Delivery on same day as the day task is requested
cold_chain	Cold Chain Delivery facility available
intercity	Intercity Delivery (Delivery between different cities)

30min	Delivery under 30 min from the time the task is requested
track	Real time status of the order is updated by the vendor
sanitize	The delivery fleet is properly sanitized
bulk_del	Delivery of Heavy goods (more than 25 kg) available
courier	Cheap delivery across India for small products
cod	Cash on delivery available by the vendor

## Order Status

The order status object which is inside the orderStatusList, that is received from get-order-detail API, is shown below.

```
{
  "orderStatus": "requested",
  "orderTimestamp": "1639827067",
}
```

The **list of Order Statuses** that are used across flowww are shown below:

Status Code	Description
requested	The initial status when the order is requested from the 3PL vendor using request-deliveries API
enroute	The order is enroute and will be delivered soon
completed	The order has been delivered and confirmed by 3PL vendor
cancelled	The order is cancelled either by cancel-orders API or by 3PL vendor

## 3rd Party Integrations & Liability

1. Google -  
We are using Google maps API for calculating distance between pickup and drop points of each order. The estimated cost is calculated using this distance. In some cases, this distance might vary or show error as mentioned below.
2. Whatsapp -  
Currently for sending order details to 3PL vendors, whatsapp messaging is used as a preferred option unless selected otherwise by the vendor.

## API Usage Limit

### General Rules:

1. Per API usage limit is fixed at 1000 calls per day (some may have specific limits)
2. Maximum number of API calls per minute is at 100. Crossing the limit may disable the API key. When a call is made and an API rate limit is exceeded, the response code is **429** with the message 'Too many API requests'
3. API usage quotas may be updated by the discretion of the team at flowww, please use up to date API documentation for latest details

API Name	Usage Limit
Estimate Task Cost	Same as general usage limit
Request Deliveries	500 per Day   20 per min
Get Task Details	1000 per day   50 per min
Get Order Details	Same as general usage limit
Edit Order Instruction	Same as general usage limit
Cancel Orders	1000 per Day   50 per min
Track Order	Same as general usage limit

## Technical Feedback Form

Please use the below link to mention any feedback about the technical stack that we have developed, we would love to work on improving it.

<https://forms.gle/pnZ35KAUPxUGV4mUA>

Also, you can mail us at [info@tmos.xyz](mailto:info@tmos.xyz) for any query