

Authentication

OUATH2 authentication protocol is used for all API calls. An oauth2 client library in any programming language can be used.

Sample GET request

```
<base_url>/oauth2/auth?scope=orders%20hold-
ings&state=%7B%22param%22:%22value%22%7D&redi-
rect uri=http://127.0.0.1&response type=code&client id=<oauthID>
```

After this is opened in Web Browser(once every trading Day), Login ID, password and 2FA of the Trading platform needs to be entered.

After this step user will get the Access Token

Access Token needs to be sent with every API request until unless mentioned.

Authorization: Bearer {access token}

Replace {access token} with the access token obtained for the user.

In case the access_token got expired, 401 HTTP status will be sent in response for any request in which case a new access token has to be obtained.

Index

Contents

1. Profile	3
2. Place Normal Order	4
3. Modify Normal Order	5
4. Cancel Normal Order	6
5. Scripinfo.	7
6. Search Script	8
7. Orderbook	g
8. TradeBook	10
9. OrderHistory	11
10. PositionBook	12
11. Demat Holdings	13
12. Cash Positions	14
13. Place Cover Order	15
14. Place Bracket Order	16
15. Exit Bracket Order	17
16. Exit Cover Order	18
17. Glossary	19

1. Profile

Get user profile

Request

Method	URL
GET	/api/v1/user/profile?client_id= <clientid></clientid>

```
Status
                                             Sample Response
200
                                                 "data":{
    "account_type":"",
    "bank_account_number":"1234567890",
    "bank_branch_name":"",
    "bank_name":"EQ-ICICI BANK LTD",
    "beanch":"EQ-ICICI BANK LTD",
                                                        "branch": "EQ-ICICI BANK LTD",
"broker id": "ABC",
"city": "",
"client id:: "XYZ",
                                                         "dob": "01/01/2000",
"email_id": "abc@gmail.com",
                                                         "email_iu . abceg
"exchange_nnf":{
    "BSE":0,
    "CDS":0,
    "MCX":0,
    "NFO":0,
                                                              "NSE":0
                                                         },
"exchanges_subscribed":[
   "BSE",
                                                               "MCX",
"CDS",
"NSE",
"NFO"
                                                         ],
"ifsc_code":"",
"name":"PRAVEEN KUMAR",
                                                         "office_addr":"abc@gmail.com\r\n9876543210",
"pan number":"ABCDEFGHI",
"permanent_addr":"STATE",
"phone_number":"9876543210",
"products_enabled":[
                                                              "CNC",
                                                              "CO",
                                                               "NRML"
                                                         ],
"role":{
                                                              "id":1,
                                                               "name":"CLIENT"
                                                         },
"sex":"",
"state":"",
                                                         "status": "Activated",
                                                         "twofa_enabled":true;
                                                         "user_type": "Non-Institutional"
                                                  },
"message":"",
"status":"success"
```

2. Place Normal Order

Request

Method	URL
POST	/api/v1/orders

Status	Sample Response
200	<pre>{ "data":{ "oms_order_id":"20001800000003", "user_order_id":10002 }, "message":"Order place successfully", "status":"success" }</pre>

3. Modify Orders

Request

Method	URL
PUT	/api/v1/orders

```
Sample Request Parameters (Possible values in comment)

{
    "oms_order_id":"200327000000027"// value as per order response
    "instrument_token":"11536", // value of placeorder request
    "exchange":"NSE", // value of placeorder request
    "product":"MIS", //placeorder value- MIS/NRML/CNC/CO/BO
    "validity":"DAY", // value of placeorder request
    "order_type":"LIMIT", // placeorder value- LIMIT , MARKET , SL , SLM
    "order_side":"BUY", // same value as in placeorder - BUY , SELL
    "price":2073, // can be changed
    "trigger_price":0, // can be changed if order-type SL or SLM
    "quantity":1, // can be changed other than BO or CO
    "disclosed_quantity":0, // can be changed
    "client_id":"XYZ" // id used to login
}
```

Status	Sample Response
200	<pre>"data":{ "oms_order_id":[</pre>

4. Cancel Normal Order

Request

Method	URL
DELETE	/api/v1/orders/ <omsordernum>?client_id=<clientid></clientid></omsordernum>

example: /api/v1/orders/200327000000027?client_id=XYZ

Status	Sample Response
200	<pre>{ "data":{ "oms_order_id":"20042000000023" }, "message":"Order cancellation request submitted for OMS Order: 20042000000023", "status":"success" }</pre>

5. Scripinfo.

Request

Method	URL
GET	/api/v1/contract/ <exchange>?info=scrip&token=<instrumenttoken></instrumenttoken></exchange>

example: /api/v1/contract/NSE?info=scrip&token=4717

Status	Sample Response
200	<pre>"error":["code":0, "message":"" },"rould":["board_!ot_quantity":1, "hoard_iot_quantity":1, "hoard_iot_quantity":1, "exchange":1, "histrument_ione":#ED", "instrument_token":4717, "isin":"NHE!29A1019", "open_interest":0, "interest":0, "creace":274, "instrument_tydest":0, "creace":274, "instrument_tydest":0, "order_sies":0, "price_numerator":0, "price_numerator":0, "price_numerator":0, "open_aname":"GAIL [BD", "ass_tick_sies":", "open_aname":"GAIL [BD", "saw_tick_sies":", "setick_sies":", "max_single_quir":", """ "redeuntity:", "price_unutation:", """ "anale_ttype_":", """ """ """ "anale_ttype_":", """ "" """</pre>

6. Search Script.

Request

Method	URL
GET	/api/v1/search?key= <keyword></keyword>

example: /api/v1/search?key=SPICE

Status	Sample Response
200	<pre>"error":{ "code":0, "message":"" }, "result":[{ "company":"SPICEJET LIMITED", "display_name":"SPICEJET EQ", "exchange":"NSE", "symbol":"SPICEJET", "token":11446, "trading_symbol":"SPICEJET-EQ" }, { "company":"SPICEJET LTD.", "display_name":"SPICEJET A", "exchange":"BSE", "symbol":"SPICEJET LTD.", "token":500285, "trading_symbol":"SPICEJET-A" }, { "company":"SPICE ISLANDS APPARELS LTD.", "display_name":"SPICEISL XT", "exchange":"BSE", "symbol":"SPICE ISLANDS APPARELS LTD.", "token":526827, "trading_symbol":"SPICEISL-XT" } </pre>

7. Orderbook

Request

Туре	Method	URL
Pending	GET	/api/v1/orders?type=pending&client_id= <clientid></clientid>
Completed	GET	/api/v1/orders?type=completed&client_id= <clientid></clientid>

```
Status
                                            Sample Response (Possible values in comment)
200
                                                  "data":{
                                                        "orders":[
                                                                 "rs":[
  "order_tag":"",
  "validity":"DAY",
  "square_off_value":null,
  "exchange_order_id":"1100000000314214",
  "exchange] "NSE",
  "rejection_reason":"",
  "amo":false,
  "trade_price":0,
  "order_entry_time":1585308069,
  "mode":"NEW",
  "is_trailing":false,
  "trading_symbol":"TCS-EQ",
  "segment":"",
  "series":"",
  "order_side":"BUY",
  "product":"MIS",
  "stop_loss_value":null,
  "device":null,
  "contract_description":{
}.
                                                                 "order_type":"LIMIT",
"average_price":"00.00"
                                                                                                                                     // LIMT ,MARKET ,SL,SL-M
                                                  },
"message":"",
"status":"success"
```

8. TradeBook

Request

Method	URL
GET	/api/v1/trades?client_id= <clientid></clientid>

Status	Sample Response
200	<pre>"data":{ "trades":[</pre>

9. OrderHistory

Request

Method	URL
GET	/api/v1/order/ <omsordernum>/history?client_id=<clientid></clientid></omsordernum>

example: /api/v1/order/200327000000020/history?client_id=XYZ

```
Status
                  Sample Response
200
                    "data": [
                         "avg_price": "0.0",
                         "client_id": "XYZ",
"created_at": null,
                         "disclosed_quantity": "0", "exchange": "NSE",
                         "exchange_order_id": null,
                         "exchange_time": "--",
                         "fill_quantity": 0,
                         "instrument token": null,
                         "last modified": null,
                         "login id": null,
                         "modified_at": null,
                         "order_id": "200723000150528",
"order_mode": null,
"order_side": "BUY",
                         "order_type": "LIMIT",
                         "price": "1290.00",
                         "product": "MIS",
                         "quantity": 1,
                         "reject reason": "user privilege is view only",
                         "remaining_quantity": null,
                         "segment": null,
"status": "rejected",
                         "trading_symbol": "ACC-EQ",
                         "trigger_price": "0.0",
                         "underlying_token": null,
                         "user_order_id": "87897349",
"validity": "DAY"
                    "message": "",
                    "status": "success"
```

10. PositionBook

Request

Туре	Method	URL
Live(only Day)	GET	/api/v1/positions?type=live&client_id= <clientid></clientid>
All(Live+ Historical)	GET	/api/v1/positions?type=historical&client_id= <clientid></clientid>

```
Status
                  Sample Response
200
                      "data":[
                              "average_buy_price":1476.58,
                              "average_price":0,
"average_sell_price":0.0,
                              "buy_amount":2953.15,
                              "buy_quantity":2,
                              "cf_buy_amount":0.0,
                             "cf_buy_quantity":0,
"cf_sell_amount":0.0,
"cf_sell_quantity":0,
"client_id":"XYZ",
                              "close_price":0,
                              "exchange": "NSE",
                              "instrument_token":22,
                              "ltp":1172.\overline{8},
                              "multiplier":1,
"net_amount":-2953.15,
                              "net_quantity":2,
                              "previous_close":1172.8,
                              "prod_type": "NRML",
                              "product": "NRML",
                              "realized_mtm": 0.0,
                              "segment":null,
                              "sell_amount":0.0,
                              "sell_quantity":0,
                              "symbol": "ACC",
                              "token":22,
                              "trading symbol": "ACC-EQ"
                         }
                      "message":"",
                      "status": "success"
```

11. Demat Holdings

Request

Method	URL
GET	/api/v1/holdings?client_id= <clientid></clientid>

```
Status
                Sample Response
200
                    "data":{
                       "holdings":[
                              "branch code":"",
                              "buy_avg":4.16,
                              "buy_avg_mtm":-5.000000000000004,
"client_id":"XYZ",
                              "exchange": "BSE",
                              "instrument details":{
                                 "exchange":6,
                                 "instrument name": "E",
                                 "instrument_token":538743,
                                 "trading_symbol": "MUDUNURU-XT"
                              },
"isin":"INE491C01027",
                              "ltp":3.96,
                              "previous close":4.16,
                              "quantity":25,
                              "symbol": "MUDUNURU",
                              "t0_price":0.0,
"t0_quantity":0,
                              "t1_price":0.0,
                              "t1 quantity":0,
                              "t2_price":0.0,
                              "t2_quantity":0,
                              "token":538743,
                              "trading_symbol": "MUDUNURU",
                              "used_quantity":0
                       ]
                    },
"message":"",
                    "status": "success"
```

12. Cash Positions

Request

Method	URL
GET	/api/v1/funds/view?client_id= <clientid>&type=all</clientid>

Status	Sample Response
200	"dealing in Toward, "broadward; "broadward; "broadward; "read lable, "f21773.38" "adhhoo Deposit, "idealing, "seal Deposit, "seal Depo
	l _r

13. Place Cover Order

Note: May not be supported / enabled in all environments by default, please check with your Broker

Request

Method	URL
POST	/api/v1/orders

Status	Sample Response
200	<pre>"data":{ "client_order_id":"300018000000592", "user_order_id":10002 }, "message":"Order place successfully", "status":"success" }</pre>

14. Place Bracket Order

Note: May not be supported / enabled in all environments by default, please check with your Broker

Request

Method	URL
POST	/api/v1/orders/bracket

```
Sample Request Parameters (Possible values in comment)
"exchange": "NSE", // NSE, NFO, CDS, BSE, MCX
"instrument_token": 22,
"quantity": 1,
"disclosed_quantity": 0,
"validity": "DAY",
"square off value": 1301, // Target Sell price (profit)
"stop loss value": 1290, // Stop Loss price (cover loss)
"price": 1299,
"trigger_price":1299, //0 for LIMIT, non 0 value if order_type is SL
"source": "web",
"trailing_stop_loss": 1,
"order type": "SL",
                       //LIMIT , SL
"product": "BO",
//true ,false
"user_order_id": 10003,
"client_id":"XYZ"
```

Status	Sample Response
200	<pre>"data":{ "client_order_id":"300018000000593", "user_order_id":10002 }, "message":"Order place successfully", "status":"success" }</pre>

15. Exit Bracket Order

Note: May not be supported / enabled in all environments by default, please check with your Broker

Request

Method	URL
DELETE	v1/orders/bracket

```
Sample Request Parameters (Possible values in comment)

{
   "oms_order_id": "200602000000313",
   "leg_order_indicator": "200602000000311", //oms_order_id for 1st leg BO
   "status": "trigger pending", // open or trigger pending
   "client_id":"XYZ"
}
```

Status	Sample Response
200	<pre>"data": {}, "message": "Ok", "status": "success" }</pre>

16. Exit Cover Order

Note: May not be supported / enabled in all environments by default, please check with your Broker

Request

Method	URL
DELETE	v1/orders/cover

```
Sample Request Parameters (Possible values in comment)

{
   "oms_order_id": "200602120000429",
   "leg_order_indicator": "209102000000526", //oms_order_id for 1st leg CO
   "client_id": "XYZ"
}
```

Status	Sample Response
200	<pre>{ "data": {}, "message": "Ok", "status": "success" }</pre>

17. Glossary

Conventions

- All response are in JSON format.
- All request parameters are mandatory unless explicitly marked as [optional]

Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client's part

5XX - Error occurred in server's part

Status Code	Description
200	ОК
400	Bad request
401	Authentication failure
403	Forbidden
404	Resource not found
405	Method Not Allowed
500	Internal Server Error
503	Service Unavailable

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