



Dot Net API Document

Product of





Shoonya Dot Net API





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Version History

Date	Version	Changes	Details
19-04-2021	1.0.0.1	Touchline Broker	Touchline Feed added. Document Format updated
	1.0.0.0	Initial Release	Based on Noren RestAPI v1.10.0



INTRODUCTION

Finvasia Shoonya API provides clients with cutting edge trading technology and a full suite of APIs to enhance their trading capabilities.



About the API

The Api is a dotNet wrapper of the ShoonyaWebAPI which offers a combination of Rest calls and WebSocket for the purposes of

API is developed on Visual Studio 2019 and uses .Net Standard 2.0

The dependency libraries are Newtonsoft.Json 9.0.1 Websocket.Client 4.3.21

API Interface

The namespace ShoonyaRestApiWrapper and class ShoonyaRestApi are of primary use and interest

Initialize

To initialize the api the following are needed

endPoint : The ShoonyaOms address Appkey : The secret key issued to you

Making Requests

We will be creating an object of ShoonyaRestApi to make requests the callback is taken as an argument in the request method.

LoginMessage loginMessage = new LoginMessage(); loginMessage.apkversion = "1.0.0";



```
loginMessage.uid = uid;
loginMessage.pwd = pwd;
loginMessage.factor2 = OTP/TOTP;
loginMessage.imei = "134243434";
loginMessage.source = "API";
loginMessage.appkey = appkey;

nApi.SendLogin(Program.OnAppLoginResponse, endPoint, loginMessage);
```

In the above example we are sending the Login request, this takes 3 arguments

- a. Callback: this is the function where the application will be handling the response
- b. Endpoint: ShoonyaOMS address
- c. MessageData: parameters of the request being made.

The Callback is of signature

```
public delegate void OnResponse(NorenResponseMsg Response, bool ok)
```

A Typical callback will be handled as below

```
public static void OnAppLoginResponse(NorenResponseMsg Response, bool ok)
{
    LoginResponse loginResp = Response as LoginResponse;

    if (loginResp.stat == "Ok")
    {
        //do all work here
    }
}
```

The Response is casted to expected DataType, here LoginResponse Stat is checked to see if the request was successful.



Login and User Details

Login

 $public\ bool\ SendLogin (OnResponse\ response,\ string\ endPoint, LoginMessage\ login)$

Request Details : LoginMessage

Fields	Possible value	Description
endPoint		The Server ip and port

Fields	Possible value	Description
apkversion*		Application version.
uid*		User Id of the login user
pwd*		Sha256 of the user entered password.
factor2*		OTP or TOTP as entered by the user.
VC*		Vendor code provided by Finvasia team, along with connection URLs
appkey*		Sha256 of uid vendor_key
imei*		Send mac if users logs in for desktop, imei is from mobile
ip_address		Optional field



source	WEB / MOB	
--------	-----------	--

Example:

\"imei\": \"134243434\", \"source\": \"MOB\"}"

Response Details: LoginResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Login Success Or failure status
susertoken		It will be present only on login success. This data to be sent in subsequent requests in jKey field and web socket connection while connecting.
lastaccesstime		It will be present only on login success.
spasswordreset	Υ	If Y Mandatory password reset to be enforced. Otherwise the field will be absent.
emsg		This will be present only if Login fails.

Sample Success Response:

```
"request_time": "20:18:47 19-05-2020",
  "stat": "Ok",
  "susertoken": "3b97f4c67762259a9ded6dbd7bfafe2787e662b3870422ddd343a59895f423a0",
  "lastaccesstime": "1589899727"
}
Sample Failure Response:
```

```
"request_time": "20:32:14 19-05-2020",
  "stat": "Not_Ok",
  "emsg": "Invalid Input: Wrong Password"
}
```



Logout

public bool SendLogout(OnResponse response)

Request Details: No Params

Fields	Possible value	Description
-	-	-

Response Details : LogoutResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Logout Success Or failure status
request_time		It will be present only on successful logout.
emsg		This will be present only if Logout fails.

Sample Success Response :

```
{
    "stat":"Ok",
    "request_time":"10:43:41 28-05-2020"
}
```

Sample Failure Response:

```
{
    "stat":"Not_Ok",
    "emsg":"Server Timeout : "
}
```

Forgot Password

Request Details:

Fields	Possible value	Description
endpoint		WebApi endpoint



user*	User Id
pan*	Pan of the user
dob*	Date of birth

Response Details: ForgotPasswordResponse.

Fields	Possible value	Description
stat	Ok or Not_Ok	Password reset is Success Or failure status
request_time		Response received time.
emsg		This will be present only if password reset fails. ("Invalid User or User Details")

Sample Success Response:

```
{
    "request_time":"10:52:56 28-05-2020",
    "stat":"Ok"
}
```

Sample Failure Response:

```
{
    "request_time":"17:42:13 26-05-2020",
    "stat":"Not_Ok",
    "emsg":"Error Occurred : Wrong user id or user details"
```

Change Password

public bool Changepwd(OnResponse response, Changepwd changepwd)

Request Details : Changepwd

Fields	Possible value	Description
uid*		User Id
oldpwd*		Sha256 of old password
pwd*		New password in plain text



Response Details: ChangepwdResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Password reset is Success Or failure status
request_time		Response received time.
dmsg		This will be present only in case of success. Number of days to expiry will be present in same.
emsg		This will be present only if password change fails

Sample Success Response:

```
"request_time":"10:20:04 27-05-2020",

"stat":"Ok",

"dmag":"Password Change Success. Your new password will expire in 15"
```

Sample Failure Response:

```
"request_time":"10:21:09 27-05-2020",

"stat":"Not_Ok",

"emsg":"Error Occurred : Password already used"
```

User Details

public bool SendGetUserDetails(OnResponse response)

Request Details: No Params

Response Details: UserDetailsResponse

Fields Possible value	Description
-----------------------	-------------



stat	Ok or Not_Ok	User details success or failure indication.
exarr		array of strings with enabled exchange names
orarr		array of strings with enabled price types for user
prarr		array of Product Obj with enabled products, as defined below.
brkname		Broker id
brnchid		Branch id
email		
actid		
uprev		Always it will be an INVESTOR, other types of user not allowed to login using this API.
request_time		It will be present only in a successful response.
emsg		This will be present only in case of errors.

Product Obj format

Fields	Possible value	Description
prd		Product name
s_prdt_ali		Product display name
exch		array of strings with enabled, allowed exchange names

Sample Success Response:



```
{ "prd":"H",
              "s_prdt_ali": "High Leverage",
                 "exch": ["NSE", "BSE", "NFO"]
            },
           { "prd":"B",
              "s_prdt_ali": "Bracket Order",
                 "exch": ["NSE", "BSE", "NFO"]
            }
  ],
  "exarr": [
    "NSE",
    "NFO"
  ],
  "orarr": [
    "MKT",
    "LMT",
    "SL-LMT",
    "SL-MKT",
    "DS",
    "2L",
    "3L",
     "4L"
  ],
  "brkname": "VIDYA",
  "brnchid": "VIDDU",
  "email": "gururaj@gmail.com",
  "actid": "GURURAJ",
  "uprev": "INVESTOR",
  "stat": "Ok"
}
Sample Failure Response:
  "stat": "Not_Ok",
  "emsg": "Session Expired : Invalid Session Key"
}
```



Watch Lists

Get WatchList Names

public bool SendGetMWList(OnResponse response)

Request Details: No Params

Response Details: MWListResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	MWList success or failure indication.
values		Watch List names as a array of strings.
request_time		It will be present only in a successful response.
emsg		This will be present only in case of errors or No WatchLists are set yet.

Sample Success Response:

```
{
    "request_time": "12:34:52 21-05-2020",
    "values": [
        "default",
        "WL"
    ],
        "stat": "Ok"
}
Sample Failure Response :
```

```
{
   "stat": "Not_Ok",
   "emsg": "Session Expired : Invalid Session Key"
}
```



Get WatchList

public bool SendGetMarketWatch(OnResponse response, string wlname)

Request Details:

Fields	Possible value	Description
wlname*		Name of the Watchlist, for which scrip list is required.

Response Details : MarketWatchResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Market watch success or failure indication.
values		Array of objects. (object fields given in below table)
request_time		It will be present only in a successful response.
emsg		This will be present only in case of errors. That is: 1) Invalid Input: Invalid WatchList Name 2) Session Expired

Fields of object in values Array	Possible value	Description
exch	NSE, BSE, NFO	Exchange
tsym		Trading symbol of the scrip (contract)
token		Token of the scrip (contract)
рр		Price precision
ti		Tick size
Is		Lot size



```
Sample Success Response :
```

```
"request_time": "13:25:17 21-05-2020",
  "values": [
    {
       "exch": "BSE",
       "token": "972889",
       "tsym": "915PTCIF27"
    },
       "exch": "NSE",
       "token": "13",
       "tsym": "ABB-EQ"
    },
       "exch": "NSE",
       "token": "22",
       "tsym": "ACC-EQ"
    }
  ],
  "stat": "Ok"
Sample Failure Response:
  "stat":"Not_Ok",
  "emsg":"Invalid Input: Missing uid or wlname."
}
```

Search Scrips

public bool SendSearchScrip(OnResponse response, string exch, string
searchtxt)

Request Details:

Fields	Possible value	Description
exch		Exchange (Select from 'exarr' Array provided in User Details response)
stext*		Search Text

Response Details: SearchScripResponse



Fields	Possible value	Description
stat	Ok or Not_Ok	Market watch success or failure indication.
values		Array of ScripItem objects. (object fields given in below table)
emsg		This will be present only in case of errors. That is: 1) Invalid Input 2) Session Expired

ScripItem

Fields of object in values Array	Possible value	Description
exch	NSE, BSE, NFO	Exchange
tsym		Trading symbol of the scrip (contract)
token		Token of the scrip (contract)
рр		Price precision
ti		Tick size
Is		Lot size

Sample Success Response:



```
"tsym": "RELAXO-EQ"
},
  "exch": "NSE",
  "token": "4327",
  "tsym": "RELAXOFOOT-EQ"
},
  "exch": "NSE",
  "token": "18068",
  "tsym": "RELBANKNAV-EQ"
},
  "exch": "NSE",
  "token": "2882",
  "tsym": "RELCAPITAL-EQ"
},
  "exch": "NSE",
  "token": "18070",
  "tsym": "RELCONSNAV-EQ"
},
  "exch": "NSE",
  "token": "18071",
  "tsym": "RELDIVNAV-EQ"
},
  "exch": "NSE",
  "token": "18072",
  "tsym": "RELGOLDNAV-EQ"
},
  "exch": "NSE",
  "token": "2885",
  "tsym": "RELIANCE-EQ"
},
  "exch": "NSE",
  "token": "15068",
  "tsym": "RELIGARE-EQ"
},
{
```



```
"exch": "NSE",
    "token": "553",
    "tsym": "RELINFRA-EQ"
},
{
    "exch": "NSE",
    "token": "18074",
    "tsym": "RELNV20NAV-EQ"
}
]

Sample Failure Response:
{
    "stat":"Not_Ok",
    "emsg":"No Data:"
}
```

Add Scrip to Watch List

public bool SendAddMultiScripsToMW(OnResponse response, string watchlist, string scrips)

Request Details:

Fields	Possible value	Description
watchlist*		Name of the Watchlist, for which scrip list is required.
scrips*		List of scrips, example format NSE 22#BSE 506734

Response Details : StandardResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Watch list update success or failure indication.
request_time		It will be present only in a successful response.
emsg		This will be present only in case of errors.



	That is : 1) Invalid Input 2) Session Expired	
--	---	--

Sample Success Response :

```
{
   "request_time": "13:50:40 21-05-2020",
   "stat": "Ok"
}
Sample Failure Response :
{
   "stat":"Not_Ok",
   "emsg":"Session Expired : Invalid Session Key"
}
```

Delete Scrip to Watch List

public bool SendDeleteMultiMWScrips(OnResponse response, string watchlist, string scrips)

Request Details:

Fields	Possible value	Description
watchlist*		Name of the Watchlist, for which scrip list is required.
scrips*		List of scrips, example format NSE 22#BSE 506734

Response Details: StandardResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Watch list update success or failure indication.
request_time		It will be present only in a successful response.
emsg		This will be present only in case of errors. That is: 1) Invalid Input 2) Session Expired

Sample Success Response:



```
{
    "request_time": "13:50:40 21-05-2020",
    "stat": "Ok"
}
Sample Failure Response :
{
    "stat":"Not_Ok",
    "emsg":"Invalid Input : Missing uid or wlname or scrips."
}
```

Get SecurityInfo

public bool SendGetSecurityInfo(OnResponse response, string exch, string token)

Request Details:

Fields	Possible value	Description
exch		Exchange
token		Contract Token

Response Details: GetSecurityInfoResponse

Response data will have below fields.

Fields	Possible value	Description
request_time		It will be present only in a successful response.
stat	Ok or Not_Ok	Market watch success or failure indication.
exch	NSE, BSE, NFO	Exchange
tsym		Trading Symbol
cname		Company Name



symnam	Symbol Name
seg	Segment
exd	Expiry Date
instname	Intrument Name
strprc	Strike Price
optt	Option Type
isin	ISIN
ti	Tick Size
Is	Lot Size
рр	Price precision
mult	Multiplier
gp_nd	gn/gd * pn/pd
prcunt	Price Units
prcqqty	Price Quote Qty
trdunt	Trade Units
delunt	Delivery Units
frzqty	Freeze Qty
gsmind	scripupdate Gsm Ind
elmbmrg	Elm Buy Margin
elmsmrg	Elm Sell Margin
addbmrg	Additional Long Margin
addsmrg	Additional Short Margin
splbmrg	Special Long Margin
splsmrg	Special Short Margin
delmrg	Delivery Margin



tenmrg	Tender Margin
tenstrd	Tender Start Date
tenendd	Tender End Eate
exestrd	Exercise Start Date
exeendd	Exercise End Date
elmmrg	Elm Margin
varmrg	Var Margin
expmrg	Exposure Margin
token	Contract Token
prcftr_d	((GN / GD) * (PN/PD))

Sample Success Response:

```
"request_time": "17:43:38 31-10-2020",
    "stat": "Ok",
    "exch": "NSE",
    "tsym": "ACC-EQ",
    "cname": "ACC LIMITED",
    "symname": "ACC",
    "seg": "EQT",
    "instname": "EQ",
    "isin": "INE012A01025",
    "pp": "2",
    "ls": "1",
    "ti": "0.05",
    "mult": "1",
    "prcftr_d": "(1 / 1 ) * (1 / 1)",
    "trdunt": "ACC.BO",
    "delunt": "ACC",
    "token": "22",
    "varmrg": "40.00"
}
```

Sample Failure Response:

25



```
"stat":"Not_Ok",
"request_time":"10:50:54 10-12-2020",
"emsg":"Error Occurred : 5 \"no data\""
}
```

Order and Trades

Place Order

public bool SendPlaceOrder(OnResponse response ,PlaceOrder order)

Request Details : PlaceOrder

Fields	Possible value	Description
uid*		Logged in User Id
actid*		Login users account ID
exch*	NSE / NFO / BSE / MCX	Exchange (Select from 'exarr' Array provided in User Details response)
tsym*		Unique id of contract on which order to be placed. (use url encoding to avoid special char error for symbols like M&M)
qty*		Order Quantity
prc*		Order Price
trgprc		Only to be sent in case of SL / SL-M order.
dscqty		Disclosed quantity (Max 10% for NSE, and 50% for MCX)
prd*	C/M/H	Product name (Select from 'prarr' Array provided in User Details response, and if same is allowed for selected, exchange. Show product display name, for user to select, and send corresponding prd in API call)
trantype*	B/S	B -> BUY, S -> SELL
prctyp*	LMT / MKT / SL-LMT / SL-MKT / DS / 2L / 3L	



ret*	DAY/EOS/IOC	Retention type (Show options as per allowed exchanges)
remarks		Any tag by user to mark order.
ordersource	MOB / WEB / TT	Used to generate exchange info fields.
bpprc		Book Profit Price applicable only if product is selected as B (Bracket order)
blprc		Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order)
trailprc		Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order)
amo		Yes , If not sent, of Not "Yes", will be treated as Regular order.
tsym2		Trading symbol of second leg, mandatory for price type 2L and 3L (use url encoding to avoid special char error for symbols like M&M)
trantype2		Transaction type of second leg, mandatory for price type 2L and 3L
qty2		Quantity for second leg, mandatory for price type 2L and 3L
prc2		Price for second leg, mandatory for price type 2L and 3L
tsym3		Trading symbol of third leg, mandatory for price type 3L (use url encoding to avoid special char error for symbols like M&M)
trantype3		Transaction type of third leg, mandatory for price type 3L
qty3		Quantity for third leg, mandatory for price type 3L
prc3		Price for third leg, mandatory for price type 3L

Example:

{\"uid\":\"VIDYA\", \"actid\":\"CLIENT1\", \"exch\":\"NSE\", \"tsym\":\"ACC-EQ\", \"qty\":\"50\", \"price\":\"1400\", \"prd\":\"H\", \"trantype\":\"B\", \"prctyp\":\"LMT\", \"ret\":\"DAY\"}" \

Response Details : PlaceOrderResponse



Fields	Possible value	Description
stat	Ok or Not_Ok	Place order success or failure indication.
request_time		Response received time.
norenordno		It will be present only on successful Order placement to OMS.
emsg		This will be present only if Order placement fails

Sample Success Response:

```
{
    "request_time": "10:48:03 20-05-2020",
    "stat": "Ok",
    "norenordno": "20052000000017"
}

Sample Error Response :
{
    "stat": "Not_Ok",
    "request_time": "20:40:01 19-05-2020",
    "emsg": "Error Occurred : 2 \"invalid input\""
```

Modify Order

}

public bool SendModifyOrder(OnResponse response, ModifyOrder order)

Request Details : ModifyOrder

Fields	Possible value	Description
exch*		Exchange
norenordno*		Noren order number, which needs to be modified
prctyp	LMT / MKT / SL-MKT / SL-LMT	This can be modified.



prc		Modified / New price
qty		Modified / New Quantity
tsym*		Unque id of contract on which order was placed. Can't be modified, must be the same as that of original order. (use url encoding to avoid special char error for symbols like M&M)
ret	DAY/IOC/EOS	New Retention type of the order
trgprc		New trigger price in case of SL-MKT or SL-LMT
uid*		User id of the logged in user.
bpprc		Book Profit Price applicable only if product is selected as B (Bracket order)
blprc		Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order)
trailprc		Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order)

Response Details : ModifyOrderResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Modify order success or failure indication.
result		Noren Order number of the order modified.
request_time		Response received time.
emsg		This will be present only if Order modification fails

Sample Success Response:

```
{
    "request_time":"14:14:08 26-05-2020",
    "stat":"Ok",
    "result":"20052600000103"
}
```



Sample Failure Response :

```
{
    "request_time":"16:03:29 28-05-2020",
    "stat":"Not_Ok",
    "emsg":"Rejected : ORA:Order not found"
}
```

Cancel Order

public bool SendCancelOrder(OnResponse response, string norenordno)

Request Details:

Fields	Possible value	Description
norenordno*		Noren order number, which needs to be modified

Response Details: CancelOrderResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Cancel order success or failure indication.
result		Noren Order number of the canceled order.
request_time		Response received time.
emsg		This will be present only if Order cancelation fails

Sample Success Response:

```
{
    "request_time":"14:14:10 26-05-2020",
    "stat":"Ok",
    "result":"20052600000103"
}
```

Sample Failure Response:

```
"request_time":"16:01:48 28-05-2020",
"stat":"Not_Ok",
```



"emsg":"Rejected : ORA:Order not found to Cancel"

Exit SNO Order

public bool SendExitSNOOrder(OnResponse response, string norenordno, string product)

Request Details:

Fields	Possible value	Description
norenordno*		Noren order number, which needs to be modified
prd*	H/B	Allowed for only H and B products (Cover order and bracket order)

Response Details: ExitSNOOrderResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Cancel order success or failure indication.
dmsg		Display message, (will be present only in case of success).
request_time		Response received time.
emsg		This will be present only if Order cancelation fails

Order Margin

public bool SendGetOrderMargin(OnResponse response, OrderMargin ordermargin)

Request Details : OrderMargin

Fields	Possible value	Description
uid*		Logged in User Id
actid*		Login users account ID



exch*	NSE / NFO / BSE / MCX	Exchange (Select from 'exarr' Array provided in User Details response)
tsym*		Unique id of contract on which order to be placed. (use url encoding to avoid special char error for symbols like M&M)
qty*		Order Quantity
prc*		Order Price
trgprc		Only to be sent in case of SL / SL-M order.
prd*	C/M/H	Product name (Select from 'prarr' Array provided in User Details response, and if same is allowed for selected, exchange. Show product display name, for user to select, and send corresponding prd in API call)
trantype*	B/S	B -> BUY, S -> SELL
prctyp*	LMT / MKT / SL-LMT / SL-MKT	
blprc		Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order)
rorgqty		Optional field. Application only for modify order, open order quantity
fillshares		Optional field. Application only for modify order, quantity already filled.
rorgprc		Optional field. Application only for modify order, open order price
orgtrgprc		Optional field. Application only for modify order, open order trigger price
norenordno		Optional field. Application only for H or B order modification
snonum		Optional field. Application only for H or B order modification

Response Details : OrderMarginResponse

Fields Possible	Description	
-----------------	-------------	--



	value	
stat	Ok or Not_Ok	Place order success or failure indication.
request_time		Response received time.
remarks		This field will be available only on success.
cash		Total credits available for order
marginused		Total margin used.
emsg		This will be present only if Order placement fails

Order Book

public bool SendGetOrderBook(OnResponse response, string product)

Request Details:

Fields	Possible value	Description
prd	H/M/	Product name

Response Details: OrderBookResponse list of OrderBookItem

Response data will be in Array of objects with below fields in case of success.

Fields	Possible value	Description
stat	Ok or Not_Ok	Order book success or failure indication.
exch		Exchange Segment
tsym		Trading symbol / contract on which order is placed.
norenordno		Noren Order Number
prc		Order Price
qty		Order Quantity
prd		Display product alias name, using prarr returned in user



		details.
status		Order status
trantype	B/S	Transaction type of the order
prctyp	LMT / MKT	Price type
fillshares		Total Traded Quantity of this order
avgprc		Average trade price of total traded quantity
rejreason		If order is rejected, reason in text form
exchordid		Exchange Order Number
cancelqty		Canceled quantity for order which is in status cancelled.
remarks		Any message Entered during order entry.
dscqty		Order disclosed quantity.
trgprc		Order trigger price
ret	DAY/IOC/ EOS	Order validity
uid		
uid actid		
		Book Profit Price applicable only if product is selected as B (Bracket order)
actid		
actid bpprc		(Bracket order) Book loss Price applicable only if product is selected as H
actid bpprc blprc		(Bracket order) Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order) Trailing Price applicable only if product is selected as H and
actid bpprc blprc trailprc		(Bracket order) Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order) Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order)
actid bpprc blprc trailprc amo		(Bracket order) Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order) Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order) Yes / No



token	Contract Token
orddttm	
ordenttm	
extm	

Response data will be as below fields in case of failure:

Fields	Possible value	Description
stat	Not_Ok	Order book failure indication.
request_time		Response received time.
emsg		Error message

Sample Success Output:

```
Success response:
        "stat": "Ok",
        "exch": "NSE",
        "tsym": "ACC-EQ",
        "norenordno": "20062500000001223",
        "prc": "127230",
        "qty": "100",
        "prd" : "C",
        "status": "Open",
        "trantype": "B",
         "prctyp": "LMT",
         "fillshares": "0",
        "avgprc": "0",
        "exchordid": "25062000000343421",
         "uid": "VIDYA",
         "actid": "CLIENT1",
         "ret": "DAY",
         "amo": "Yes"
  },
        "stat": "Ok",
        "exch": "NSE",
        "tsym": "ABB-EQ",
```



```
"norenordno": "20062500000002543",
         "prc": "127830",
         "qty": "50",
         "prd": "C",
         "status": "REJECT",
        "trantype": "B",
        "prctyp": "LMT",
        "fillshares": "0",
        "avgprc": "0",
        "rejreason": "Insufficient funds"
        "uid": "VIDYA",
        "actid": "CLIENT1",
        "ret": "DAY",
        "amo": "No"
  }
]
Sample Failure Response :
  "stat":"Not_Ok",
  "emsg": "Session Expired : Invalid Session Key"
}
```

Multi Leg Order Book

public bool SendGetMultiLegOrderBook(OnResponse response, string product)

Request Details:

Fields	Possible value	Description
prd	H/M/	Product name

Response Details: MultiLegOrderBookResponse list of MultiLegOrderBookItem

Fields	Possible value	Description
stat	Ok or Not_Ok	Order book success or failure indication.
exch		Exchange Segment



tsym		Trading symbol / contract on which order is placed.
norenordno		Noren Order Number
prc		Order Price
qty		Order Quantity
prd		Display product alias name, using prarr returned in user details.
status		Order status
trantype	B/S	Transaction type of the order
prctyp	LMT / MKT	Price type
fillshares		Total Traded Quantity of this order
avgprc		Average trade price of total traded quantity
rejreason		If order is rejected, reason in text form
exchordid		Exchange Order Number
cancelqty		Canceled quantity for order which is in status cancelled.
remarks		Any message Entered during order entry.
dscqty		Order disclosed quantity.
trgprc		Order trigger price
ret	DAY/IOC/ EOS	Order validity
uid		
actid		
bpprc		Book Profit Price applicable only if product is selected as B (Bracket order)
blprc		Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order)
trailprc		Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order)



amo	Yes / No
рр	Price precision
ti	Tick size
Is	Lot size
tsym2	Trading symbol of second leg, mandatory for price type 2L and 3L
trantype2	Transaction type of second leg, mandatory for price type 2L and 3L
qty2	Quantity for second leg, mandatory for price type 2L and 3L
prc2	Price for second leg, mandatory for price type 2L and 3L
tsym3	Trading symbol of third leg, mandatory for price type 3L
trantype3	Transaction type of third leg, mandatory for price type 3L
qty3	Quantity for third leg, mandatory for price type 3L
prc3	Price for third leg, mandatory for price type 3L
fillshares2	Total Traded Quantity of 2nd Leg
avgprc2	Average trade price of total traded quantity for 2nd leg
fillshares3	Total Traded Quantity of 3rd Leg
avgprc3	Average trade price of total traded quantity for 3rd leg

Response data will be as below fields in case of failure:

Fields	Possible value	Description
stat	Not_Ok	Order book failure indication.
request_time		Response received time.
emsg		Error message



Single Order History

public bool SendGetOrderHistory(OnResponse response, string norenordno)
Request Details:

Fields	Possible value	Description
norenordno*		Noren Order Number

Response Details: OrderHistoryResponse list of SingleOrdHistItem

Fields	Possible value	Description
stat	Ok or Not_Ok	Order book success or failure indication.
exch		Exchange Segment
tsym		Trading symbol / contract on which order is placed.
norenordno		Noren Order Number
prc		Order Price
qty		Order Quantity
prd		Display product alias name, using prarr returned in user details.
status		Order status
rpt		Report Type (fill/complete etc)
trantype	B/S	Transaction type of the order
prctyp	LMT / MKT	Price type
fillshares		Total Traded Quantity of this order
avgprc		Average trade price of total traded quantity
rejreason		If order is rejected, reason in text form
exchordid		Exchange Order Number



cancelqty		Canceled quantity for order which is in status cancelled.
remarks		Any message Entered during order entry.
dscqty		Order disclosed quantity.
trgprc		Order trigger price
ret	DAY/IOC/ EOS	Order validity
uid		
actid		
bpprc		Book Profit Price applicable only if product is selected as B (Bracket order)
blprc		Book loss Price applicable only if product is selected as H and B (High Leverage and Bracket order)
trailprc		Trailing Price applicable only if product is selected as H and B (High Leverage and Bracket order)
amo		Yes / No
рр		Price precision
ti		Tick size
Is		Lot size
token		Contract Token
orddttm		
ordenttm		
extm		

Response data will be as below fields in case of failure:

Fields	Possible value	Description
stat	Not_Ok	Order book failure indication.



request_time	Response received time.
emsg	Error message

Sample Success Output:

```
[
   {
       "stat": "Ok",
       "norenordno": "20121300065716",
       "uid": "DEMO1",
       "actid": "DEMO1",
       "exch": "NSE",
       "tsym": "ACCELYA-EQ",
       "qty": "180",
       "trantype": "B",
       "prctyp": "LMT",
       "ret": "DAY",
       "token": "7053",
       "pp": "2",
       "ls": "1",
       "ti": "0.05",
       "prc": "800.00",
       "avgprc": "800.00",
       "discqty": "0",
       "prd": "M",
       "status": "COMPLETE",
       "rpt": "Fill",
       "fillshares": "180",
       "norentm": "19:59:32 13-12-2020",
       "exch tm": "00:00:00 01-01-1980",
       "remarks": "WC TEST Order",
       "exchordid": "6858"
  },
       "stat": "Ok",
       "norenordno": "20121300065716",
```



```
"uid": "DEMO1",
    "actid": "DEMO1",
    "exch": "NSE",
    "tsym": "ACCELYA-EQ",
    "qty": "180",
    "trantype": "B",
    "prctyp": "LMT",
    "ret": "DAY",
    "token": "7053",
    "pp": "2",
    "ls": "1",
    "ti": "0.05",
    "prc": "800.00",
    "discqty": "0",
    "prd": "M",
    "status": "OPEN",
    "rpt": "New",
    "norentm": "19:59:32 13-12-2020",
    "exch tm": "00:00:00 01-01-1980",
    "remarks": "WC TEST Order",
    "exchordid": "6858"
},
{
    "stat": "Ok",
    "norenordno": "20121300065716",
    "uid": "DEMO1",
    "actid": "DEMO1",
    "exch": "NSE",
    "tsym": "ACCELYA-EQ",
    "qty": "180",
    "trantype": "B",
    "prctyp": "LMT",
    "ret": "DAY",
    "token": "7053",
    "pp": "2",
    "ls": "1",
    "ti": "0.05",
```



```
"prc": "800.00",
       "discqty": "0",
       "prd": "M",
       "status": "PENDING",
       "rpt": "PendingNew",
       "norentm": "19:59:32 13-12-2020",
       "remarks": "WC TEST Order"
   },
       "stat": "Ok",
       "norenordno": "20121300065716",
       "uid": "DEMO1",
       "actid": "DEMO1",
       "exch": "NSE",
       "tsym": "ACCELYA-EQ",
       "qty": "180",
       "trantype": "B",
       "prctyp": "LMT",
       "ret": "DAY",
       "token": "7053",
       "pp": "2",
       "ls": "1",
       "ti": "0.05",
       "prc": "800.00",
       "prd": "M",
       "status": "PENDING",
       "rpt": "NewAck",
       "norentm": "19:59:32 13-12-2020",
       "remarks": "WC TEST Order"
   }
]
```

Trade Book

public bool SendGetTradeBook(OnResponse response, string account)
Request Details:



Fields	Possible value	Description
actid*		Account Id of logged in user

Response Details: TradeBookResponse list of TradeBookItem

Fields	Possible value	Description
stat	Ok or Not_Ok	Order book success or failure indication.
exch		Exchange Segment
tsym		Trading symbol / contract on which order is placed.
norenordno		Noren Order Number
qty		Order Quantity
prd		Display product alias name, using prarr returned in user details.
trantype	B/S	Transaction type of the order
prctyp	LMT / MKT	Price type
fillshares		Total Traded Quantity of this order
avgprc		Average trade price of total traded quantity
exchordid		Exchange Order Number
remarks		Any message Entered during order entry.
ret	DAY/IOC/ EOS	Order validity
uid		
actid		
рр		Price precision
ti		Tick size



Is	Lot size
cstFrm	Custom Firm
fltm	Fill Time
flid	Fill ID
flqty	Fill Qty
flprc	Fill Price
ordersource	Order Source
token	Token

Response data will be as below fields in case of failure:

Fields	Possible value	Description
stat	Not_Ok	Order book failure indication.
request_time		Response received time.
emsg		Error message

Sample Success Output:

```
"stat": "Ok",
    "norenordno": "20121300065715",
    "uid": "GURURAJ",
    "actid": "GURURAJ",
    "exch": "NSE",
    "prctyp": "LMT",
    "ret": "DAY",
    "prd": "M",
    "flid": "102",
    "fltm": "01-01-1980 00:00:00",
    "trantype": "S",
```



```
"tsym": "ACCELYA-EQ",
    "qty": "180",
    "token": "7053",
    "fillshares": "180",
    "flqty": "180",
    "pp": "2",
    "ls": "1",
    "ti": "0.05",
    "prc": "800.00",
    "flprc": "800.00",
    "norentm": "19:59:32 13-12-2020",
    "exch_tm": "00:00:00 01-01-1980",
    "remarks": "WC TEST Order",
    "exchordid": "6857"
},
    "stat": "Ok",
    "norenordno": "20121300065716",
    "uid": "GURURAJ",
    "actid": "GURURAJ",
    "exch": "NSE",
    "prctyp": "LMT",
    "ret": "DAY",
    "prd": "M",
    "flid": "101",
    "fltm": "01-01-1980 00:00:00",
    "trantype": "B",
    "tsym": "ACCELYA-EQ",
    "qty": "180",
    "token": "7053",
    "fillshares": "180",
    "flqty": "180",
    "pp": "2",
    "ls": "1",
    "ti": "0.05",
    "prc": "800.00",
    "flprc": "800.00",
```



```
"norentm": "19:59:32 13-12-2020",
    "exch_tm": "00:00:00 01-01-1980",
    "remarks": "WC TEST Order",
    "exchordid": "6858"
}
```

Exch Msg

public bool SendGetExchMsg(OnResponse response, ExchMsg exchmsg)

Request Details : ExchMsg

Fields	Possible value	Description
uid*		Logged in User Id
exch		Exchange (Select from 'exarr' Array provided in User Details response)

Response Details: ExchMsgResponse list of ExchMsgItem

Response data will be as below fields in case of success.

Fields	Possible value	Description
stat	Ok	Whi Exch Msg success or failure indication.
exchmsg		It will be present only in a successful response.
exchtm		Exchange Time

Response data will be as below fields in case of failure:

Fields Possible	Description
-----------------	-------------



	value	
stat	Not_Ok	Order book failure indication.
request_time		Response received time.
emsg		Error message

Order Margin

public bool SendGetOrderMargin(OnResponse response, OrderMargin ordermargin)

Request Details : OrderMargin

Fields	Possible value	Description
actid*		Login users account ID
exch*	NSE / NFO / BSE / MCX	Exchange (Select from 'exarr' Array provided in User Details response)
qty*		Order Quantity
prc*		Order Price
trgprc		Only to be sent in case of SL / SL-M order.
prd*	C/M/H	Product name (Select from 'prarr' Array provided in User Details response, and if same is allowed for selected, exchange. Show product display name, for user to select, and send corresponding prd in API call)
trantype*	B/S	B -> BUY, S -> SELL
prctyp*	LMT/MKT/ SL-LMT/SL-MKT/DS/2L/3L	
orgqty		Org Quantity



orgprc	Org Price
token	Unique id of contract on which order to be placed.
flqty	Fill Quantity
srcuid	Source User ID
srcbkrid	Source Broker ID

Response Details: OrderMarginResponse

Fields	Possible value	Description
stat	Ok or Not_Ok	Place order success or failure indication.
request_time		Response received time.
remarks	Insufficient Balance/ Order Success/ Invalid scrip, RED is under Reconciliation/ Squareoff Order	Any message Entered during order entry.
cash	optional	Total Cash
marginused	optional	Margin Used

Positions Book

public bool SendGetPositionBook(OnResponse response, string account)



Fields	Possible value	Description
actid*		Account id of the logged in user.

Response Details :PositionBookResponse list of PositionBookItem

Fields	Possible value	Description
stat	Ok or Not_Ok	Position book success or failure indication.
exch		Exchange segment
tsym		Trading symbol / contract.
token		Contract token
uid		User Id
actid		Account Id
prd		Product name to be shown.
netqty		Net Position quantity
netavgprc		Net position average price
daybuyqty		Day Buy Quantity
daysellqty		Day Sell Quantity
daybuyavgprc		Day Buy average price
daysellavgprc		Day buy average price
daybuyamt		Day Buy Amount
daysellamt		Day Sell Amount
cfbuyqty		Carry Forward Buy Quantity
cforgavgprc		Original Avg Price
cfsellqty		Carry Forward Sell Quantity
cfbuyavgprc		Carry Forward Buy average price



ata alla compa	O
cfsellavgprc	Carry Forward Buy average price
cfbuyamt	Carry Forward Buy Amount
cfsellamt	Carry Forward Sell Amount
lp	LTP
rpnl	RealizedPNL
urmtom	UnrealizedMTOM. (Can be recalculated in LTP update: = netqty * (Ip from web socket - netavgprc) * prcftr
bep	Break even price
openbuyqty	
opensellqty	
openbuyamt	
opensellamt	
openbuyavgprc	
opensellavgprc	
mult	
рр	
prcftr	gn*pn/(gd*pd).
ti	Tick size
Is	Lot size
request_time	This will be present only in a failure response.

Response data will be as below fields in case of failure:

Fields Possib value	Description
---------------------	-------------



stat	Not_Ok	Position book request failure indication.
request_time		Response received time.
emsg		Error message

Sample Success Response:

```
{
      "stat":"Ok",
      "uid": "POORNA",
      "actid": "POORNA",
      "exch":"NSE",
      "tsym": "ACC-EQ",
      "prarr":"C",
      "pp":"2",
      "ls":"1",
      "ti":"5.00",
      "mult":"1",
      "prcftr":"1.000000",
      "daybuyqty":"2",
      "daysellqty": "2",
      "daybuyamt": "2610.00",
      "daybuyavgprc":"1305.00",
      "daysellamt": "2610.00",
      "daysellavgprc": "1305.00",
      "cfbuyqty":"0",
      "cfsellqty":"0",
      "cfbuyamt":"0.00",
      "cfbuyavgprc": "0.00",
      "cfsellamt": "0.00",
      "cfsellavgprc":"0.00",
      "openbuyqty":"0",
      "opensellqty": "23",
      "openbuyamt": "0.00",
      "openbuyavgprc":"0.00",
      "opensellamt": "30015.00",
      "opensellavgprc":"1305.00",
      "netqty":"0",
      "netavgprc": "0.00",
      "lp":"0.00",
      "urmtom":"0.00",
      "rpnl":"0.00",
      "cforgavgprc":"0.00"
```



```
}

Sample Failure Response :
{
    "stat":"Not_Ok",
    "request_time":"14:14:11 26-05-2020",
    "emsg":"Error Occurred : 5 \"no data\""
}
```

Product Conversion

public bool SendGetOrderMargin(OnResponse response, ProductConversion prdConv)

Request Details: ProductConversion

Fields	Possible value	Description
exch*		Exchange
tsym*		Unique id of contract on which order was placed. Can't be modified, must be the same as that of original order. (use url encoding to avoid special char error for symbols like M&M)
qty*		Quantity to be converted.
uid*		User id of the logged in user.
actid*		Account id
prd*		Product to which the user wants to convert position.
prevprd*		Original product of the position.
trantype*		Transaction type
postype*	Day / CF	Converting Day or Carry forward position
ordersource	МОВ	For Logging

Response Details: ProductConversionResponse

Fields Possible Description value	
-----------------------------------	--



stat	Ok or Not_Ok	Position conversion success or failure indication.
emsg		This will be present only if Position conversion fails.

Sample Success Response:

```
{
    "request_time":"10:52:12 02-06-2020",
    "stat":"Ok"
}
```

Sample Failure Response:

```
{
    "stat":"Not_Ok",
    "emsg":"Invalid Input : Invalid Position Type"
}
```

Holdings and Limits

Holdings

public bool SendGetHoldings(OnResponse response, string account, string product)
Request Details:

Fields	Possible value	Description
actid*		Account id of the logged in user.
prd*		Product name

Response Details : HoldingsResponse list of HoldingsItem

Fields	Possible value	Description
stat	Ok or Not_Ok	Holding request success or failure indication.
exch_tsym		Array of objects exch_tsym objects as defined below.
holdqty		Holding quantity



colqty	Collateral quantity
btstqty	BTST quantity
btstcolqty	BTST Collateral quantity
usedqty	Holding used today
upldprc	Average price uploaded along with holdings

Exch_tsym object:

Fields of object in values Array	Possible value	Description
exch	NSE, BSE, NFO	Exchange
tsym		Trading symbol of the scrip (contract)
token		Token of the scrip (contract)
рр		Price precision
ti		Tick size
ls		Lot size

Response data will be as below fields in case of failure:

Fields	Possible value	Description
stat	Not_Ok	Position book request failure indication.
request_time		Response received time.
emsg		Error message

Sample Success Response:



```
"exch":"NSE",
                         "token":"13",
                              "tsym":"ABB-EQ"
                     ],
       "holdqty":"2000000",
       "colqty":"200",
       "btstqty":"0",
       "btstcolqty":"0",
       "usedqty":"0",
       "upldprc": "1800.00"
   },
        "stat":"Ok",
        "exch_tsym":[
                               "exch":"NSE",
                               "token":"22",
                               "tsym":"ACC-EQ"
                     ],
        "holdqty":"2000000",
        "colqty":"200",
        "btstqty":"0",
        "btstcolqty":"0",
        "usedqty":"0",
        "upldprc": "1400.00"
    }
]
Sample Failure Response :
 "stat":"Not_Ok",
 "emsg":"Invalid Input: Missing uid or actid or prd."
}
Limits
public bool SendGetLimits(OnResponse response, string account, string product = "",
string segment = "", string exchange = "")
```

Fields	Possible value	Description
actid*		Account id of the logged in user.



prd		Product name
seg	CM/FO/FX	Segment
exch		Exchange

Response Details : LimitsResponse

Fields	Possible value	Description	
stat	Ok or Not_Ok	Limits request success or failure indication.	
actid		Account id	
prd		Product name	
seg	CM/FO/FX	Segment	
exch		Exchange	
	Cash Primary Fields		
cash		Cash Margin available	
payin		Total Amount transferred using Payins today	
payout		Total amount requested for withdrawal today	
	Cash Additional Fields		
brkcollamt		Prevalued Collateral Amount	
unclearedcash		Uncleared Cash (Payin through cheques)	
daycash		Additional leverage amount / Amount added to handle system errors - by broker.	
Margin Utilized			
marginused		Total margin / fund used today	
mtomcurper		Mtom current percentage	
Margin Used components			



cbu		CAC Buy used	
csc		CAC Sell Credits	
rpnl		Current realized PNL	
unmtom		Current unrealized mtom	
marprt		Covered Product margins	
span		Span used	
expo		Exposure margin	
premium		Premium used	
varelm		Var Elm Margin	
grexpo		Gross Exposure	
greexpo_d		Gross Exposure derivative	
scripbskmar		Scrip basket margin	
addscripbskmrg		Additional scrip basket margin	
brokerage		Brokerage amount	
collateral		Collateral calculated based on uploaded holdings	
grcoll		Valuation of uploaded holding pre haircut	
	Additional Risk Li	mits	
turnoverlmt			
pendordvallmt			
Additional Risk Indicators		dicators	
turnover		Turnover	
pendordval		Pending Order value	
Margin used detailed breakup fields			
rzpnl_e_i		Current realized PNL (Equity Intraday)	
rzpnl_e_m		Current realized PNL (Equity Margin)	



rzpnl_e_c	Current realized PNL (Equity Cash n Carry)	
rzpnl_d_i	Current realized PNL (Derivative Intraday)	
rzpnl_d_m	Current realized PNL (Derivative Margin)	
rzpnl_f_i	Current realized PNL (FX Intraday)	
rzpnl_f_m	Current realized PNL (FX Margin)	
rzpnl_c_i	Current realized PNL (Commodity Intraday)	
rzpnl_c_m	Current realized PNL (Commodity Margin)	
uzpnl_e_i	Current unrealized MTOM (Equity Intraday)	
uzpnl_e_m	Current unrealized MTOM (Equity Margin)	
uzpnl_e_c	Current unrealized MTOM (Equity Cash n Carry)	
uzpnl_d_i	Current unrealized MTOM (Derivative Intraday)	
uzpnl_d_m	Current unrealized MTOM (Derivative Margin)	
uzpnl_f_i	Current unrealized MTOM (FX Intraday)	
uzpnl_f_m	Current unrealized MTOM (FX Margin)	
uzpnl_c_i	Current unrealized MTOM (Commodity Intraday)	
uzpnl_c_m	Current unrealized MTOM (Commodity Margin)	
span_d_i	Span Margin (Derivative Intraday)	
span_d_m	Span Margin (Derivative Margin)	
span_f_i	Span Margin (FX Intraday)	
span_f_m	Span Margin (FX Margin)	
span_c_i	Span Margin (Commodity Intraday)	
span_c_m	Span Margin (Commodity Margin)	
expo_d_i	Exposure Margin (Derivative Intraday)	
expo_d_m	Exposure Margin (Derivative Margin)	
expo_f_i	Exposure Margin (FX Intraday)	



expo_f_m	Exposure Margin (Exposure Margin (FX Margin)	
expo_c_i	Exposure Margin (Commodity Intraday)	
expo_c_m	Exposure Margin (Commodity Margin)	
premium_d_i	Option premium (D	Perivative Intraday)	
premium_d_m	Option premium (D	Perivative Margin)	
premium_f_i	Option premium (F	X Intraday)	
premium_f_m	Option premium (F	X Margin)	
premium_c_i	Option premium (C	Commodity Intraday)	
premium_c_m	Option premium (C	Commodity Margin)	
varelm_e_i	Var Elm (Equity Int	raday)	
varelm_e_m	Var Elm (Equity Ma	argin)	
varelm_e_c	Var Elm (Equity Ca	ash n Carry)	
marprt_e_h	Covered Product n	nargins (Equity High leverage)	
marprt_e_b	Covered Product n	nargins (Equity Bracket Order)	
marprt_d_h	Covered Product n	nargins (Derivative High leverage)	
marprt_d_b	Covered Product n	nargins (Derivative Bracket Order)	
marprt_f_h	Covered Product n	nargins (FX High leverage)	
marprt_f_b	Covered Product n	nargins (FX Bracket Order)	
marprt_c_h	Covered Product n	nargins (Commodity High leverage)	
marprt_c_b	Covered Product n	nargins (Commodity Bracket Order)	
scripbskmar_e_i	Scrip basket margi	n (Equity Intraday)	
scripbskmar_e_m	Scrip basket margi	n (Equity Margin)	
scripbskmar_e_c	Scrip basket margi	n (Equity Cash n Carry)	
addscripbskmrg_ d_i	Additional scrip bas	sket margin (Derivative Intraday)	
	· · · · · · · · · · · · · · · · · · ·		



Г		
addscripbskmrg_ d_m	Additional scrip basket margin (Derivative Margin)	
addscripbskmrg_f _i	Additional scrip basket margin (FX Intraday)	
addscripbskmrg_f _m	Additional scrip basket margin (FX Margin)	
addscripbskmrg_ c_i	Additional scrip basket margin (Commodity Intraday)	
addscripbskmrg_ c_m	Additional scrip basket margin (Commodity Margin)	
brkage_e_i	Brokerage (Equity Intraday)	
brkage_e_m	Brokerage (Equity Margin)	
brkage_e_c	Brokerage (Equity CAC)	
brkage_e_h	Brokerage (Equity High Leverage)	
brkage_e_b	Brokerage (Equity Bracket Order)	
brkage_d_i	Brokerage (Derivative Intraday)	
brkage_d_m	Brokerage (Derivative Margin)	
brkage_d_h	Brokerage (Derivative High Leverage)	
brkage_d_b	Brokerage (Derivative Bracket Order)	
brkage_f_i	Brokerage (FX Intraday)	
brkage_f_m	Brokerage (FX Margin)	
brkage_f_h	Brokerage (FX High Leverage)	
brkage_f_b	Brokerage (FX Bracket Order)	
brkage_c_i	Brokerage (Commodity Intraday)	
brkage_c_m	Brokerage (Commodity Margin)	
brkage_c_h	Brokerage (Commodity High Leverage)	
brkage_c_b	Brokerage (Commodity Bracket Order)	



request_time	This will be present only in a successful response.
emsg	This will be present only in a failure response.

Sample Success Response:

```
"request_time":"18:07:31 29-05-2020",
  "stat":"Ok",
  "cash":"15000000000000000.00",
  "payin":"0.00",
  "payout": "0.00",
  "brkcollamt": "0.00",
  "unclearedcash": "0.00",
  "daycash": "0.00",
  "turnoverlmt": "500000000000000.00",
  "turnover": "3915000.00",
  "pendordval": "2871000.00",
  "marginused": "3945540.00",
  "mtomcurper": "0.00",
  "urmtom": "30540.00",
  "grexpo": "3915000.00",
  "uzpnl_e_i":"15270.00",
  "uzpnl_e_m":"61080.00",
  "uzpnl_e_c":"-45810.00"
}
Sample Failure Response :
 "stat":"Not_Ok",
```

Market Info

"emsg": "Server Timeout: "

Get Index List

Fields Possible value	Description
-----------------------	-------------



Response Details:

Fields	Possible value	Description
stat	Ok or Not_Ok	TopListNames success or failure indication.
values		Array Of Basket, Criteria pair.
request_time		This will be present only in a successful response.
emsg		This will be present only in case of errors.

Basket, Criteria pair Object :

Fields	Possible value	Description
idxname		Index Name
token		Index token used to subscribe

Sample Output:



```
},
           "idxname": "Nifty IT",
           "token": "26008"
       },
       {
           "idxname": "Nifty Next 50",
           "token": "26013"
       },
           "idxname": "Nifty Bank",
           "token": "26009"
       },
       {
           "idxname": "Nifty 500",
           "token": "26004"
       },
           "idxname": "Nifty 100",
           "token": "26012"
       },
           "idxname": "Nifty Midcap 50",
           "token": "26014"
       },
           "idxname": "Nifty Realty",
           "token": "26018"
       },
    ]
}
```

Get Top List Names



Fields	Possible value	Description
exch*		Exchange

Response Details:

Fields	Possible value	Description
stat	Ok or Not_Ok	TopListNames success or failure indication.
values		Array Of Basket, Criteria pair.
request_time		This will be present only in a successful response.
emsg		This will be present only in case of errors.

Basket, Criteria pair Object :

Fields	Possible value	Description
bskt		Basket name
crt		criteria

Sample Success Response:



```
"bskt":"NSEEQ",
                     "crt":"VOLUME"
            },
             {
                     "bskt":"NSEEQ",
                     "crt":"LTP"
            },
             {
                     "bskt":"NSEEQ",
                     "crt":"VALUE"
            },
             {
                     "bskt":"NSEALL",
                     "crt":"VOLUME"
            },
             {
                     "bskt":"NSEALL",
                     "crt":"LTP"
            },
             {
                     "bskt":"NSEALL",
                     "crt":"VALUE"
             }
}
```

Sample Failure Response:

```
{
    "stat":"Not_Ok",
    "emsg":"Session Expired : Invalid Session Key"
}
```

Get Top List

Fields	Possible value	Description
exch*		Exchange
tb*	T or B	Top or Bottom
bskt*		Basket name



crt*	criteria

Response Details:

Fields	Possible value	Description
stat	Ok or Not_Ok	TopList success or failure indication.
values		Array of top / bottom contracts object
request_time		This will be present only in a successful response.
emsg		This will be present only in case of errors.

top / bottom contracts object :

Fields	Possible value	Description
tsym		Trading symbol
lp		LTP
С		Previous Close price
V		volume
value		Total traded value
oi		Open interest
рс		LTP percentage change

Sample Success Response:



```
"value":"40185405.00",
                               "oi":"0",
                               "Pc":"3.83"
                     },
                     {
                              "tsym":"SHRENIK-EQ",
                               "lp":"1850.00",
                               "c":"1785.00",
                               "v":"206846",
                               "value": "368806418.00",
                               "oi":"0",
                              "Pc":"3.64"
                     },
                     {
                               "tsym":"REMSONSIND-EQ",
                               "lp":"6000.00",
                               "c":"5795.00",
                               "v":"3948",
                               "value": "22752324.00",
                               "Oi":"0",
                               "pc":"3.54"
                     },
                     {
                               "tsym": "AXISNIFTY-EQ",
                               "lp":"106700.00",
                               "c":"103301.00",
                               "v":"422",
                               "value":"43825544.00",
                               "oi":"0",
                               "Pc":"3.29"
                     }
                ]
    }
Sample Failure Response:
  "stat":"Not_Ok",
  "emsg":"Invalid Input: Missing uid or exch or bskt or tb or crt"
}
```

Get Time Price Data (Chart data)

Fields Possible value	Description
-----------------------	-------------



exch*	Exchange
token*	

Response Details:

Fields	Possible value	Description
stat	Not_Ok	TPData failure indication.
emsg		This will be present only in case of errors.

Response data will be as follows in case for success.

Fields	Possible value	Description
stat	Ok	TPData success indication.
time		DD/MM/CCYY hh:mm:ss
into		Interval open
inth		Interval high
intl		Interval low
intc		Interval close
intvwap		Interval vwap
intv		Interval volume
V		volume
intoi		Interval io change
oi		oi

Sample Success Response:



```
[
      "stat":"Ok",
      "time": "02-06-2020 15:46:23",
      "into":"0.00",
      "inth":"0.00",
      "intl":"0.00",
      "intc":"0.00",
      "intvwap": "0.00",
      "intv":"0",
      "intoi":"0",
      "v":"980515",
      "oi":"128702"
  },
  {
      "stat":"Ok",
      "time": "02-06-2020 15:45:23",
      "into":"0.00",
      "inth":"0.00",
      "intl":"0.00",
      "intc":"0.00",
      "intvwap": "0.00",
      "intv":"0",
      "intoi":"0",
      "v":"980515",
      "oi":"128702"
   },
      "stat":"Ok",
      "time": "02-06-2020 15:44:23",
      "into":"0.00",
      "inth":"0.00",
      "intl":"0.00",
      "intc":"0.00",
      "intvwap": "0.00",
      "intv":"0",
      "intoi":"0",
      "v":"980515",
      "oi":"128702"
  },
      "stat":"Ok",
      "time": "02-06-2020 15:43:23",
      "into":"1287.00",
      "inth": "1287.00",
      "intl":"0.00",
      "intc":"1287.00",
      "intvwap":"128702.00",
```



```
"intv":"4",
     "intoi":"128702",
     "v":"980515",
     "oi":"128702"
  },
     "stat":"Ok",
     "time":"02-06-2020 15:42:23",
     "into":"0.00",
     "inth":"0.00",
     "intl":"0.00",
     "intc":"0.00",
     "intvwap":"0.00",
     "intv":"0",
     "intoi":"0",
     "v":"980511",
     "oi":"128702"
  }
]
Sample Failure Response:
   "stat":"Not_Ok",
   "emsg": "Session Expired : Invalid Session Key"
}
```

Get Option Chain

Fields	Possible value	Description
uid*		Logged in User Id
tsym*		Trading symbol of any of the option or future. Option chain for that underlying will be returned. (use url encoding to avoid special char error for symbols like M&M)
exch*		Exchange (UI need to check if exchange in NFO / CDS / MCX / or any other exchange which has options, if not don't allow)
strprc*		Mid price for option chain selection



cnt*		Number of strike to return on one side of the mid price for PUT and CALL. (example cnt is 4, total 16 contracts will be returned, if cnt is is 5 total 20 contract will be returned)
------	--	--

Response Details:

Fields	Possible value	Description
stat	Ok or Not_Ok	Market watch success or failure indication.
values		Array of objects. (object fields given in below table)
emsg		This will be present only in case of errors. That is: 1) Invalid Input 2) Session Expired

Fields of object in values Array	Possible value	Description
exch	NSE, BSE, NFO	Exchange
tsym		Trading symbol of the scrip (contract)
token		Token of the scrip (contract)
optt		Option Type
strprc		Strike price
рр		Price precision
ti		Tick size
Is		Lot size

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Order Updates and MarketData Update

This Api allows you to receive updates receive the marketdata and order updates in the application callbacks as an option, to do so connect as follows.

Api.OnFeedCallback += Application.OnFeedHandler; Api.OnOrderCallback; += Application.OnOrderHandler;

Connect

public bool ConnectWatcher(string uri, OnFeed marketdataHandler,
OnOrderFeed orderHandler)

Request:

Fields	Possible value	Description
uri		Server EndPoint
OnFeed		Application Callback for MarketData
OnOrderFeed		Callback for Order Updates

Subscribe Market Data

public bool SubscribeToken(string exch, string token)
Request:

Fields	Possible value	Description
exch	NSE, BSE, NFO	Exchange
token		Scrip Token

Market Data Updates:



Accept for t, e, and tk other fields may / may not be present.

Fields	Possible value	Description
t	tf	'tf' represents touchline feed
е	NSE, BSE, NFO	Exchange name
tk	22	Scrip Token
lp		LTP
рс		Percentage change
v		volume
0		Open price
h		High price
I		Low price
С		Close price
ар		Average trade price

UnSubscribe Market Data

public bool UnSubscribeToken(string exch, string token)
Request:

Fields	Possible value	Description
exch	NSE, BSE, NFO	Exchange
token		Scrip Token

Subscribe Market Data Depth

 $\begin{tabular}{ll} \textbf{public bool SubscribeTokenDepth}(\textbf{string exch}, \textbf{ string token}) \\ \textbf{Request:} \\ \end{tabular}$



Fields	Possible value	Description
exch	NSE, BSE, NFO	Exchange
token		Scrip Token

Depth subscription Updates:

Fields	Possible value	Description
t	df	'df' represents depth feed
е	NSE, BSE, NFO	Exchange name
tk	22	Scrip Token
lp		LTP
рс		Percentage change
V		volume
0		Open price
h		High price
I		Low price
С		Close price
ар		Average trade price
ltt		Last trade time
ltq		Last trade quantity
tbq		Total Buy Quantity
tsq		Total Sell Quantity
bq1		Best Buy Quantity 1
bq2		Best Buy Quantity 2
bq3		Best Buy Quantity 3
bq4		Best Buy Quantity 4



bq5	Best Buy Quantity 5
bp1	Best Buy Price 1
bp2	Best Buy Price 2
bp3	Best Buy Price 3
bp4	Best Buy Price 4
bp5	Best Buy Price 5
bo1	Best Buy Orders 1
bo2	Best Buy Orders 2
bo3	Best Buy Orders 3
bo4	Best Buy Orders 4
bo5	Best Buy Orders 5
sq1	Best Sell Quantity 1
sq2	Best Sell Quantity 2
sq3	Best Sell Quantity 3
sq4	Best Sell Quantity 4
sq5	Best Sell Quantity 5
sp1	Best Sell Price 1
sp2	Best Sell Price 2
sp3	Best Sell Price 3
sp4	Best Sell Price 4
sp5	Best Sell Price 5
so1	Best Sell Orders 1
so2	Best Sell Orders 2
so3	Best Sell Orders 3
so4	Best Sell Orders 4



so5	Best Sell Orders 5
lc	Lower Circuit Limit
uc	Upper Circuit Limit
52h	52 week high low in other exchanges, Life time high low in mcx
521	52 week high low in other exchanges, Life time high low in mcx

Sample Message:

```
{
   "t": "df",
   "e": "NSE",
    "tk": "22",
    "o": "1166.00",
    "h": "1179.00",
    "1": "1145.35",
    "c": "1152.65",
    "ap": "1159.74",
    "v": "819881",
    "tbq": "120952",
    "tsq": "131730",
    "bp1": "1156.00",
    "sp1": "1156.50",
    "bp2": "1155.80",
    "sp2": "1156.55",
    "bp3": "1155.75",
    "sp3": "1156.65",
    "bp4": "1155.70",
    "sp4": "1156.70",
    "bp5": "1155.65",
    "sp5": "1156.75",
    "bq1": "4",
    "sq1": "10",
    "bq2": "67",
    "sq2": "63",
    "bq3": "83",
    "sq3": "1",
    "bq4": "139",
    "sq4": "53",
    "bq5": "393",
```



```
"sq5": "94"
```

Unsubscribe Depth

 $\begin{tabular}{ll} \textbf{public bool } \textbf{Un} \textbf{SubscribeTokenDepth}(\textbf{string exch}, \textbf{ string token}) \\ \textbf{Request:} \end{tabular}$

Fields	Possible value	Description
exch	NSE, BSE, NFO	Exchange
token		Scrip Token



Subscribe Order Update

public bool SubscribeOrders(OnOrderFeed orderFeed, string account)

Request:

Fields	Possible value	Description
actid		Account id based on which order updated to be sent.

Order Update subscription Updates : NorenOrderFeed

Fields	Possible value	Description
t	om	'om' represents touchline feed
norenordno		Noren Order Number
uid		User Id
actid		Account ID
exch		Exchange
tsym		Trading symbol
qty		Order quantity
prc		Order Price
prd		Product
status		Order status (open, complete, rejected etc)
reporttype		Order event for which this message is sent out. (fill, rejected, canceled)
trantype		Order transaction type, buy or sell
prctyp		Order price type (LMT, MKT, SL-LMT, SL-MKT)
ret		Order retention type (DAY, EOS, IOC,)
fillshares		Filled shares



avgprc	Average fill price
rejreason	Order rejection reason, if rejected
exchordid	Exchange Order ID
cancelqty	Canceled quantity, in case of canceled order
remarks	User added tag, while placing order
dscqty	Disclosed quantity
trgprc	Trigger price for SL orders