

API specifications for Mutual Funds Service System

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1.1 Introduction

1.2 Definitions

The following are the definitions for the terms used in the document:

1.3 Scope of the project

1.3.1 Within Scope

The scope of this project is limited to designing, building and implementing Common Transaction Acceptance Platform as described in this document.

1.3.2 Out of scope

- Building and hosting of website / client application.

1.4 General Requirements

- In addition to the service specific parameters as described in this document, the following parameters shall be mandatory input for each service:
 - Login id – Unique User ID to authenticate Web service requests.
 - Password – Valid password for the User ID.
- The Web services will be deployed on secure channel (HTTPS).
- The Web services will return data in industry standard JSON message format.
- Based on this input we have to implement the service level authentication.

Sl. No	Column Name	Data Type	Mandatory	Field Validation
1	Login id	Varchar2(20)	Yes	Must be a valid user id for the purpose of authenticating web service requests.
2	Password	Varchar2(25)	Yes	Must be a valid password for the Application ID. Password Length Should be 8 to 25 . 8 Characters are applicable to old cases which are before implementation of new password rules.
3	Broker Code	Varchar2(15)	Yes	Must be valid Broker Code.
4	User IP	Varchar2(20)	No	

- The web services shall return the result code as '0' or any other digit(s), where 0 indicates success and non-zero value indicates errors.
- The values of Application ID & Password are:
 1. Login id - << Contact NSE BO >>
 2. Password – << Contact NSE BO >>

This is mandatory information to consume the API

- Valid Broker Code - Broker should be empaneled
- Valid Login ID and Password

1.5 Service Specific Requirements

1.5.1 Method to Login

Method Name: “**LOGIN**”

This service will Authenticate User Credential. User will attempt more than one login for same user code, old session is discontinued and new session creation is allowed.

Sample Json Request Format :

```
{
  "NMFTMRequest":
    [
      {
        "loginid":"30000",
        "password":"Test$2587896",
        "brokercode":"31877",
        "userip":""
      }
    ]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login id	Varchar2(20)	Y	30000
password	Password	Varchar2(25)	Y	TEST\$2587896. Password Length Should be 8 to 25
brokercode	MemberCode	Varchar2(20)	Y	31877
userip	User IP address	Varchar2(20)	N	142.253.25.24

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [
      {
        "servicereturncode":"0",
        "servicemessage":"Success"
      }
    ],
  "Response":
    [
      {
        "loginstatus":"Success",
```

```

        "brokername":"Rabic",
        "lastpasswordchangedate":"18-Apr-2018 10:15:20 PM",
        "branchcode":"4521",
        "brokercode":"31877",
        "loginid":"30000",
        "apikey": "XXXXXX",
        "trader_name":"Rasul",
    }}
}

```

For Failure Case:

```

{
  "Status":
    [{
      "servicereturncode":"1",
      "servicemessage":"Failure"
    }],
  "Response":
    [{
      "returnmessage":"Authenticate Failure.",
      "returncode":"1"
    }]
}

```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Success:

Attributes	Field Description	Data Type	Remarks
loginstatus	Status of login	Varchar2(20)	Success / Failed / Password Expired
brokername	Broker Name	Varchar2(40)	Mr Rabic
lastpassword change date	Last Password changed date	Date	21-Nov-2017 10:15:20 PM

branchcode	Branch code	Varchar2(10)	004
brokercode	Broker code	Varchar2(10)	31877
loginid	Login id	Varchar2(20)	30000
apikey	API Key	Varchar2(60)	XXXX
trader_name	Trader Name	Varchar2(40)	Rasul

Failure:

Attributes	Remarks
Returnmessage	Authenticate Failure
Returncode	1

1.5.2 Method for Change Password

Method Name: **“CHANGEPWD”**

This service will allow to change user password.

Sample Json Request Format :

```
{
  "NMFTMRequest":
    [{
      "loginid":"30000",
      "password":"Test$258",
      "broker Code":"31877",
      "userip": "",
      "newpassword":"Test$6767896"
    }]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login id	Varchar2(20)	Y	30000
password	Password	Varchar2(25)	Y	Test\$258.
brokercode	Member Code	Varchar2(10)	Y	31877
userip	User IP address	Varchar2(20)	N	142.253.25.24
newpassword	New password	Varchar2(25)	Y	Test\$6767896. New Password Length Should be 12 to 25

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [{
      "servicereturncode": "0",
      "servicemessage": "Success"
    }],
  "Response":
    [{
      "loginstatus": "Success",
      "brokername": "Rabic",
      "lastpasswordchangedate": "21-Nov-2017 10:15:20 PM",
      "branchcode": "004",
      "brokerid": "31877",
      "loginid": "30000",
      "apikey": "XXXXXX",
      "trader_name": "Rasul"
    }]
}
```

For Failure Case:

```
{
  "Status":
    [{
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }],
  "Response":
    [{
      "returnmessage": "Password not changed.",
      "returncode": "1"
    }]
}
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response :

Success:

Attributes	Field Description	Data Type	Remarks
login Status	Status of login	Varchar2(20)	Success / Failed / Password Expired
brokername	Broker Name	Varchar2(50)	Mr Rabic
Lastpassword changedate	Last Password changed date	Date	31-Jul-1987
branchcode	Branch code	Varchar2(10)	000004
brokercode	Member Code	Varchar2(20)	31877
loginid	Login id	Varchar2(20)	30000
apikey	API Key	Varchar2(60)	XXXX
trader_name	Trader Name	Varchar2(40)	Mr Rasul

Failure:

Attributes	Remarks
Returnmessage	Password not changed.
Returncode	1

1.5.3 Method for LogOff

Method Name: “**LOGOFF**”

This service will allow to Logoff Session.

Sample Json Request Format :

```
{
  "NMFTMRequest":
    [
      {
        "loginid": "30000",
        "brokercode": "31877",
        "apikey": "XXXXXX"
      }
    ]
}
```

Input data as table format:

Attributes	Field Description	Data Type		Mandatory	Remarks
loginid	Login Id	Varchar2(20)		Y	30000
Brokercode	Member code	Varchar2(20)		Y	31877
apikey	API Key	Varchar2(60)		Y	XXXX

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [{
      "servicereturncode": "0",
      "servicemessage": "Success"
    }],
  "Response":
    [{
      "logoffstatus": "Successfully logged off"
    }]
}
```

For Failure Case:

```
{
  "Status":
    [{
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }],
  "Response":
    [{
      "returnmessage": "Error occurred during Log Off. ",
      "returncode": "1"
    }]
}
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Success:

Attributes	Field Description	Data Type	Remarks
logoffstatus	Log off Status	Varchar2(20)	Log of Successfully

Failure:

Attributes	Remarks
Returnmessage	Error occurred during Log Off.
Returncode	1

1.5.4 Method for Market Details

Method Name: “**MARKETDETAILS**”

This service will allow get Market Details report.

Sample Json Request Format :

```
{
  "NMFTMRequest":
    [{
      "loginid": "30000",
      "apikey": "XXXXXX"
    }]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
Loginid	Login Id	Varchar2(20)	Y	30000
apikey	API Key	Varchar2(60)	Y	XXXX

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [{
      "servicereturncode": "0",
      "servicemessage": "Success"
    }],
  "Response":
    [{
      "marketstatus": "Open"
    }]
}
```

For Failure Case:

```
{
  "Status":
  [{
    "servicereturncode": "1",
    "servicemessage": "Failure"
  }],

  "Response":
  [{
    "returnmessage": "No Data Found.",
    "returncode": "1"
  }]
}
```

For Service Response:

Success:

Attributes	Field Description	Data Type	Remarks
marketstatus	Market Status	Varchar2(40)	Started / Not Started / Stopped

Failure:

Attributes	Remarks
Returnmessage	No Data Found.
Returncode	1

1.5.5 Method for Creating Client Master

Method Name: "UCC"

This service will allow Client Creation.

Sample Json Request Format :

```
{
  "NMFTMRequest":
  [{
    "loginid": "30000",
    "apikey": "XXXXXXX",
    "param": "19806544|Rabic|Raja|01|M|01/11/1984|01|S|N|N|N|ASDFH0231F
|||||P|||||SB|0004585812348989|HDFC0000004|Y|||||RABIC RAJA|01
|ADD 1|ADD 2|ADD 3|CHENNAI|TN|600021|INDIA|rabid@abcd.com|P|||||
||||9789897898|||||K||||N|N|Y|P||||",
  }]
}
```

```
"filler1": "",
"filler2": ""
```

```
}}
```

```
}
```

Note: System will check client code and member code combination. If data exist for this combination, then system will consider as modification process and update the details. If data do not exist for this combination, then system will consider as 'New' and create the details.

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
Apikey	API Key	Varchar2(60)	Y	XXXX
param	Param	Varchar2(4000)	Y	Param Value should be Pipe separator. Example :19806544 Rabic Raja 01 M 01/11/1984 01 S N N N N ASDFH0231F P SB 000458581234 8989 HDFC0000004 Y RABIC RAJA 01 ADD 1 ADD 2 ADD 3 CHENNAI TN 600021 INDIA rabica@ bcd.com P 9789897898 K N N Y P
filler1	Filler 1	Varchar2(1000)	N	
filler2	Filler 2	Varchar2(1000)	N	
filler3	Filler 3	Varchar2(1000)	N	

Input data for Param Attribute:

Field Description	Data Type	Mandatory	Remarks
Client code	Varchar2(10)	Y	1987310730
Primary Holder First Name	Varchar2(70)	Y	RABIC
Primary Holder Middle Name		Y	
Primary Holder Last Name		Y	RAJA
Tax Status	Varchar2(2)	Y	Refer Tax Status Master (Section 1.9.2)
Gender	Char (1)	N	Mandatory for Individual, NRI and Minor clients. Values would be M/F/O
Primary Holder DOB/Incorporation	Varchar2(10)	Y	01/11/1984
Occupation Code	Varchar2(2)	Y	Refer Occupation Master (Section 1.9.3)
Holding Nature	Varchar2(2)	Y	SI/ JO/ AS
Second Holder First Name	Varchar2(70)	N	Mandatory if Mode of Holding JO/AS
Second Holder Middle Name		N	Mandatory if Mode of Holding JO/AS

Second Holder Last Name		N	Mandatory if Mode of Holding JO/AS
Third Holder First Name	Varchar2(70)	N	
Third Holder Middle Name		N	
Third Holder Last Name		N	
Second Holder DOB	Varchar2(10)	N	Mandatory if SECOND HOLDER NAME mentioned DD/MM/YYYY
Third Holder DOB	Varchar2(10)	N	Mandatory if THIRD HOLDER NAME mentioned DD/MM/YYYY
Guardian First Name	Varchar2(120)	N	Mandatory for Minor Clients
Guardian Middle Name		N	Mandatory for Minor Clients
Guardian Last Name		N	Mandatory for Minor Clients
Guardian DOB	Varchar2(10)	N	Mandatory for Minor Clients DD/MM/YYYY
Primary Holder PAN Exempt	Char (1)	Y	Value should be Y / N
Second Holder PAN Exempt	Char (1)	Y	Value should be Y / N
Third Holder PAN Exempt	Char (1)	Y	Value should be Y / N
Guardian PAN Exempt	Char (1)	Y	Value should be Y / N
Primary Holder PAN	Varchar2(10)	N	Mandatory if Primary Holder PAN Exempt flag N.
Second Holder PAN	Varchar2(10)	N	Mandatory if Second Holder PAN Exempt flag N And if Second Holder name is provided
Third Holder PAN	Varchar2(10)	N	Mandatory if Third PAN Exempt flag N And if Third Holder name is provided
Guardian PAN	Varchar2(10)	N	Mandatory if Guardian PAN Exempt flag N And Minor client
Primary Holder-Exempt Category	Varchar2(2)	N	Mandatory if PRIMARY Holder PAN Exempt flag Y. Refer PAN Exempt Category (Section 1.9.6)
Second Holder-Exempt Category	Varchar2(2)	N	Mandatory if Second Holder PAN Exempt flag Y. Refer PAN Exempt Category (Section 1.9.6)
Third Holder-Exempt Category	Varchar2(2)	N	Mandatory if Third Holder PAN Exempt flag Y. Refer PAN Exempt Category (Section 1.9.6)
Guardian-Exempt Category	Varchar2(2)	N	Mandatory if Guardian PAN Exempt flag Y. Refer PAN Exempt Category (Section 1.9.6)
Client Type	Char (1)	Y	Value should be D / P
PMS	Char (1)	N	Mandatory if client type D. Value should be

			Y / N
Default DP	Varchar2(4)	N	Mandatory if client type D (CDSL/NSDL), PHYS in case of Physical
CDSL DPID	Varchar2(8)	N	Mandatory if Default DP is CDSL
CDSL CLTID	Varchar2(16)	N	Mandatory if Default DP is CDSL
CMBP ID	Numeric (16)	N	Mandatory if PMS Flag is 'Y' and client Default DP is NSDL
NSDL DPID	Varchar2(8)	N	Mandatory if Default DP is NSDL
NSDL CLTID	Varchar2(8)	N	Mandatory if Default DP is NSDL
Account Type 1	Varchar2(2)	Y	Refer Account Type Master (Section 1.9.1)
Account No 1	Varchar2(40)	Y	0004565678789898
MICR No 1	Numeric (9)	N	123456789
IFSC Code 1	Varchar2(11)	Y	HDFC0453333
Default Bank Flag	Char (1)	Y	Y/N. Default Bank Flag can be Y for any 1 Bank account
Account Type 2	Varchar2(2)	Y	Refer Account Type Master (Section 1.9.1)
Account No 2	Varchar2(40)	Y	0004565678789899
MICR No 2	Numeric (9)	N	123456789
IFSC Code 2	Varchar2(11)	Y	HDFC0453334
Default Bank Flag	Char (1)	Y	Y/N
Account Type 3	Varchar2(2)	Y	Refer Account Type Master (Section 1.9.1)
Account No 3	Varchar2(40)	Y	0004565678789897
MICR No 3	Numeric (9)	N	123456789
IFSC Code 3	Varchar2(11)	Y	HDFC0453335
Default Bank Flag	Char (1)	Y	Y/N
Account Type 4	Varchar2(2)	Y	Refer Account Type Master (Section 1.9.1)
Account No 4	Varchar2(40)	Y	0004565678789894
MICR No 4	Numeric (9)	N	123456789
IFSC Code 4	Varchar2(11)	Y	HDFC0453333
Default Bank Flag	Char (1)	Y	Y/N
Account Type 5	Varchar2(2)	Y	Refer Account Type Master (Section 1.9.1)
Account No 5	Varchar2(40)	Y	0004565678789891
MICR No 5	Numeric (9)	N	123456789
IFSC Code 5	Varchar2(11)	Y	HDFC0453331
Default Bank Flag	Char (1)	Y	Y/N
Cheque name	Varchar2(35)	N	
Div pay mode	Varchar2 (2)	Y	01-Cheque 02-Direct Credit 03-ECS 04-NEFT 05-RTGS
Address 1	Varchar2(40)	Y	Address 1
Address 2	Varchar2(40)	Y	Address 2
Address 3	Varchar2(40)	N	Address 3
City	Varchar2(35)	Y	Chennai
State	Varchar2(2)	Y	Refer State Master (Section 1.9.5)

Pincode	Varchar2(6)	Y	600021
Country	Varchar2(35)	Y	Refer Country Master (Section 1.9.4)
Resi. Phone	Varchar2(15)	N	
Resi. Fax	Varchar2(15)	N	
Office. Phone	Varchar2(15)	N	
Office. Fax	Varchar2(15)	N	
Email	Varchar2(50)	Y	rabicraja@gmail.com
Communication Mode	Char (1)	Y	P-Physical/E-Email/M-Mobile
Foreign Address 1	Varchar2(40)	N	Mandatory for NRI, Except for Seafarer. Refer Tax Status
Foreign Address 2	Varchar2(40)	N	Mandatory for NRI
Foreign Address 3	Varchar2(40)	N	
Foreign City	Varchar2(35)	N	Mandatory for NRI
Foreign Pincode	Varchar2(10)	N	Mandatory for NRI
Foreign State	Varchar2(35)	N	Mandatory for NRI
Foreign Country	Varchar2(3)	N	Mandatory for NRI
Foreign Resi. Phone	Varchar2(15)	N	
Foreign Resi. Fax	Varchar2(15)	N	
Foreign Office. Phone	Varchar2(15)	N	
Foreign Office. Fax	Varchar2(15)	N	
Indian Mobile No.	Varchar2(10)	Y	9876698766
Nominee 1 Name	Varchar2(40)	N	
Nominee 1 Relationship	Varchar2(40)	N	Mandatory if client nominee available
Nominee 1 Applicable (%)	Numeric (5,2)	N	Mandatory if client nominee available
Nominee 1 Minor Flag	Char (1)	N	Mandatory if client nominee Available (Y/N)
Nominee 1 DOB	Date	N	Mandatory if Nominee minor flag Y DD/MM/YYYY
Nominee 1 Guardian	Varchar2(35)	N	Mandatory if Nominee minor flag Y
Nominee 2 Name	Varchar2(40)	N	
Nominee 2 Relationship	Varchar2(40)	N	Mandatory if client nominee 2 available.
Nominee 2 Applicable (%)	Numeric (5,2)	N	Mandatory if client nominee 2 available.
Nominee 2 DOB	Date	N	Mandatory if Nominee 2 minor flag Y DD/MM/YYYY
Nominee 2 Minor Flag	Char (1)	N	Mandatory if client nominee 2 Available (Y/N)
Nominee 2 Guardian	Varchar2(35)	N	Mandatory if Nominee 2 minor flag Y
Nominee 3 Name	Varchar2(40)	N	
Nominee 3 Relationship	Varchar2(40)	N	Mandatory if client nominee 3 available
Nominee 3 Applicable (%)	Numeric (5,2)	N	Mandatory if client nominee 3 available
Nominee 3 DOB	Date	N	Mandatory if Nominee 3 minor flag Y DD/MM/YYYY
Nominee 3 Minor Flag	Char (1)	N	Mandatory if client nominee 3 Available (Y/N)
Nominee 3 Guardian	Varchar2(35)	N	Mandatory if Nominee 3 minor flag Y
Primary Holder KYC Type	Char (1)	Y	K/C/B/E

			K - KRA Compliant C – CKYC Compliant B - BIOMETRIC KYC E - Aadhaar EKYC PAN
Primary Holder CKYC Number	Numeric (14)	N	Mandatory if primary holder KYC type 'C'
Second Holder KYC Type	Char (1)	Y	K/C/B/E K - KRA Compliant C – CKYC Compliant B - BIOMETRIC KYC E - Aadhaar EKYC PAN
Second Holder CKYC Number	Numeric (14)	N	Mandatory if second holder KYC type 'C'
Third Holder KYC Type	Char (1)	Y	K/C/B/E K - KRA Compliant C – CKYC Compliant B - BIOMETRIC KYC E - Aadhaar EKYC PAN
Third Holder CKYC Number	Numeric (14)	N	Mandatory if third holder KYC type 'C'
Guardian KYC Type	Char (1)	Y	K/C/B/E K - KRA Compliant C – CKYC Compliant B - BIOMETRIC KYC E - Aadhaar EKYC PAN
Guardian CKYC Number	Numeric (14)	N	Mandatory if Guardian KYC type 'C'
Primary Holder KRA Exempt Ref. No.	Varchar2(10)	N	Mandatory if Primary Holder Pan Exempt
Second Holder KRA Exempt Ref. No.	Varchar2(10)	N	Mandatory if Second Holder Pan Exempt
Third Holder KRA Exempt Ref. No.	Varchar2(10)	N	Mandatory if Third Holder Pan Exempt
Guardian KRA Exempt Ref. No.	Varchar2(10)	N	Mandatory if Guardian Pan Exempt
Aadhaar Updated	Char (1)	N	Y / N
Mapin Id.	Varchar2(16)	N	
Paperless_flag	Char (1)	Y	Investor onboarding P- Paper/ Z - Paperless
LEI No	Varchar2(20)	N	Mandatory for Non-Individual & HUF for orders above Rs.50 crores
LEI Validity	Date	N	Mandatory if LEI No is given
Filler 1			
Filler 2			
Filler 3			

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [{
      "servicereturncode": "0",
      "servicemessage": "Success"
    }],
  "Response":
    [{
      "Status": "0",
      "Remarks": "CLIENT REGISTERED SUCCESSFULLY",
      "Filler1": "",
      "Filler2": ""
    }]
}
```

For Failure Case:

```
{
  "Status":
    [{
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }],
  "Response":
    [{
      "Status": "1",
      "Remarks": "Invalid PAN",
      "Filler1": "",
      "Filler2": ""
      "Error Code": "E124"
    }]
}
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Success:

Attributes	Field Description	Data Type	Remarks
Status	Status	Number	0 / 1
Remarks	Remarks	Varchar2(100)	Client Registered Successfully
Filler 1	Filler 1		
Filler 2	Filler 1		

For Service Response:

Failure:

Attributes	Field Description	Data Type	Remarks
Status	Status	Number	0 / 1
Remarks	Remarks	Varchar2(100)	Invalid PAN
Filler 1	Filler 1		
Filler 2	Filler 1		
ErrorCode	Error Code	Varchar2(50)	E124

1.5.6 Method for Order Manage

Method Name: “**ORDERMANAGE**”

This service will allow order Manage.

Sample Json Request Format :

```
{
  "NMFTMRequest":
    [
      {
        "loginid": "30000",
        "apikey": "XXXXXXX",
        "activity": "1",
        "siptransactionindicator": "N",
        "clientcode1": "1200130014",
        "buysell": "2",
        "ordernumber": "",
        "sipflag": "",
        "modeofholding": "SI",
        "clientcode2": "",
        "clientcode3": "",
        "clientname1": "XXXXXXX",
        "clientname2": "",
        "clientname3": "",
        "pannumber1": "XXXXXXX",
        "pannumber2": "",
        "pannumber3": "",
        "kycccompliant1": "Y",
        "kycccompliant2": "",
        "kycccompliant3": "",
        "occupation": "01",
        "taxstatus": "01",
        "addressline1": "XXXXX",
        "addressline2": "XXXXX",
        "addressline3": "XXXXX",
        "city": "XXXXX",
        "state": "TN",
        "gender": "M",
        "pincode": "600032",
        "phoneoffice": "",
        "phoneresidence": "123456789123456",
        "mobilenumber": "",
        "emailaddress": "test@gmail.com",
        "bankname": "HDF",
        "bankbranch": "ITC",
        "bankcity": "CHENNAI",
        "accountno": "52562363",
        "neftcode": "",
        "bankaccounttype": "SB",
        "statementcommunicationmode": "E",
        "payoutmech": "1",
      }
    ]
}
```

```

        "dateofbirth":"31-Jul-1987",
        "guardianname": "",
        "guardianpanno": "",
        "nomineename": "",
        "nomineerelation": "",
        "applnumber": "",
        "dividendmechanism": "",
        "entrydatetime": "",
        "lastmodified": "",
        "branchid": "001",
        "subbrokercode": "",
        "siptranchenumber": "",
        "euin": "",
        "nfnfuserinfo": "",
        "traderid": "",
        "brokerid": "",
        "sipregistrationnumber": "",
        "echoback": "test",
        "dpc": "N",
        "umrn": "HFDC00000123654987"
    },
    "NMFTMChildRequest": {
        "symbol": "BSL15",
        "series": "DP",
        "amccode": "B",
        "folionumber": "",
        "purchasetype": "FP",
        "amount": "5000",
        "quantity": "",
        "bypassminredemptioncheck": "N",
        "amcschemecode": "01",
        "depositorysettlement": "D",
        "depositoryid": "",
        "depositorycode": "CDSL",
        "depositoryclientid": "8934567800120001",
        "rtschemecode": "",
        "rtagentcode": "",
        "sipfrequency": "OM",
        "sipperiod": "11",
        "sipdaydate": "01",
        "sipmonth": "",
        "sipgenerateorder": "y",
        "creditconfirmation": "Y"
    }
}

```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks	Request type
loginid	Login id	Varchar(20)	Yes	30000	NMFTMRequest
apikey	API Key	Varchar2(60)	Yes	XXXX	NMFTMRequest
activity	Type Of Activity	char(1)	Yes	1- Insert ;3 - Delete ; 4 - Update	NMFTMRequest
siptransactionindicator	Is SIP Trxn	char(1)	Yes	S- SIP ; N-Normal Orders	NMFTMRequest
clientcode1	client code	varchar2(20)	Yes	Client Code	NMFTMRequest
Buysell	Trxn Type	char(1)	Yes	1 - Purchase ; 2 - Redemption; Not Applicable for SIP	NMFTMRequest
ordernumber	Order Ref No	varchar2(30)	No	Required While Modify/ Cancel Trxn	NMFTMRequest
Sipflag	SIP Flag	char(1)	No		NMFTMRequest
modeofholding	Mode of Holding	varchar2(5)	Yes	“SI (SINGLE)” or “JO (JOINT)” or “AS (ANYONE SURVIVOR)”	NMFTMRequest
clientcode2	Client Code2	varchar2(20)	No		NMFTMRequest
clientcode3	Client Code3	varchar2(20)	No		NMFTMRequest
clientname1	Client Name1	varchar2(40)	Yes		NMFTMRequest
clientname2	Client Name2	varchar2(40)	No		NMFTMRequest
clientname3	Client Name3	varchar2(40)	No		NMFTMRequest
pannumber1	PAN Number1	varchar2(10)	Yes	XXXXXX	NMFTMRequest
pannumber2	PAN Number2	varchar2(10)	No		NMFTMRequest
pannumber3	PAN Number3	varchar2(10)	No		NMFTMRequest
kyccompliant1	KYC compliant1	char(1)	Yes		NMFTMRequest
kyccompliant2	KYC compliant2	char(1)	No		NMFTMRequest
kyccompliant3	KYC compliant3	char(1)	No		NMFTMRequest
Occupation	occupation	varchar2(5)	Yes	Refer Masters as per sec 1.9	NMFTMRequest
Taxstatus	Taxstatus	Varchar2(5)	Yes	Refer Masters as per sec 1.9	NMFTMRequest
addressline1	Address line1	Varchar2(40)	No		NMFTMRequest
addressline2	Address line2	Varchar2(40)	No		NMFTMRequest
addressline3	Address line3	Varchar2(40)	No		NMFTMRequest
city	City	Varchar2(20)	No		NMFTMRequest
state	State	Varchar2(20)	No		NMFTMRequest

gender	Gender	char(1)	No	"M (Male)" "F (Female)"	NMFTMRequest
pincode	Pincode	Varchar2(6)	No		NMFTMRequest
phoneoffice	Office Phone Number	Varchar2(15)	No		NMFTMRequest
phoneresidence	Residence Phone Number	Varchar2(15)	No		NMFTMRequest
mobilenumber	Mobilenummer	Varchar2(10)	No		NMFTMRequest
emailaddress	Emailaddress	Varchar2(20)	No		NMFTMRequest
bankname	Bankname	Varchar2(20)	No		NMFTMRequest
bankbranch	Bank Branch	Varchar2(20)	No		NMFTMRequest
bankcity	Bank city	Varchar2(20)	No		NMFTMRequest
accountno	Account number	Varchar2(20)	No		NMFTMRequest
neftcode	NEFT code	Varchar2(20)	No		NMFTMRequest
bankaccounttype	Bank Account Type	Varchar2(10)	No		NMFTMRequest
statementcommunicationmode	Statement communication mode	char(1)	No	"P (Physical)" "E (Electronic)"	NMFTMRequest
payoutmech	payoutmech	Varchar2(10)	No	"01 (Cheque)" "02 (Direct Credit)" "03 (ECS)" "04 (NEFT)" "05 (RTGS)"	NMFTMRequest
dateofbirth	Date of Birth	Date	No	Required when investor is minor. Format-DD-Mon-YYYY	NMFTMRequest
guardiannname	Guardian Name	Varchar2(10)	No	Required when investor is minor	NMFTMRequest
guardianpanno	Guardian PAN No	Varchar2(10)	No	Required when investor is minor	NMFTMRequest
nomineename	Nominee Name	Varchar2(40)	No		NMFTMRequest
nomineerelation	Nominee Relation	Varchar2(40)	No		NMFTMRequest
applnumber	Application Number	Varchar2(40)	No	Running No	NMFTMRequest
dividendmechanism	Dividendmechanism	Varchar2(10)	No	if series='DR' then 'R' if series='DP' then 'P' if series='GR' then "	NMFTMRequest
entrydatetime	Entry date time	Date	No		NMFTMRequest
lastmodified	Last Modified	Date	No		NMFTMRequest
branchid	Branchid	varchar2(10)	Yes	Dealer Branch ID	NMFTMRequest
subbrokercode	Sub broker code	varchar2(10)	No		NMFTMRequest
siptranchenumber	SIP tranchenumber	varchar2(10)	No		NMFTMRequest
euin	euin	varchar2(10)	No		NMFTMRequest

nfnuserinfo	nfnuserinfo	Double	No		NMFTMRequest
traderid	Traderid	varchar2(10)	No		NMFTMRequest
brokerid	brokerid	varchar2(10)	No		NMFTMRequest
sipregistrationn umber	SIP Registration Number	varchar2(20)	No		NMFTMRequest
echoback	Echo Back	varchar2(50)	No		NMFTMRequest
dpc	DPC	Char(1)	No	Should be always "Y" for Lumpsum /SIP	NMFTMRequest
Umrn	Unique Mandate Reference Number	varchar2(20)	No	UMRN is applicable for SIP	NMFTMRequest
symbol	symbol	varchar2(20)	Yes		NMFTMChildReque st
series	series	varchar2(2)			NMFTMChildReque st
amccode	AMC Code	varchar2(5)	Yes		NMFTMChildReque st
folionumber	Folio	varchar2(20)	No	Not Required for demat txn	NMFTMChildReque st
purchasetype	To decide Fresh Purchase or Additional Purchase	varchar2(2)	No	FP - Fresh Purchase ; AP - Additional Purchase; Not applicable for other txn	NMFTMChildReque st
amount	amount	Number	No	Required for Purchase and SIP;	NMFTMChildReque st
quantity	quantity	Number	No	Amount or unit is required for Redemption	NMFTMChildReque st
bypassminrede mptioncheck	To Bypass Minimum amount/unit checking in Redemption	char(1)	Yes	Y / N - Redemption ; N -All other txn	NMFTMChildReque st
amcschemecod e	amc schemecode	varchar2(20)	Yes		NMFTMChildReque st
depositorysettle ment	Is demat txn	char(1)	Yes	D - Demat Trxn ; P- Physical txn	NMFTMChildReque st
depositorycode	depository code	varchar2(4)	No	NSDL/CDSL . Required for Demat Trxn	NMFTMChildReque st
depositoryid	Depository Id	varchar2(8)	Yes		NMFTMChildReque st
depositoryclien t	BEN ID	varchar2(16)	Yes		NMFTMChildReque st
rtagentcode	RT Agent code	varchar2(20)	No		NMFTMChildReque st
rtschemecode	RTA schemecode	varchar2(20)	Yes		NMFTMChildReque st
sipfrequency	SIP frequency	varchar2(2)	No	Required for SIP; OM - Once a month ; Q- Quarterly ; H - half Yearly; Y - Yearly	NMFTMChildReque st
sipperiod	No of Installment	Number	No	Required for SIP	NMFTMChildRequest
sipdaydate	SIP Date Day	Number	No	Required for SIP	NMFTMChildReque st

sipmonth	SIP month	number	No	For Monthly : No Need For Quarterly: 01 - J-A-J-O 02 - F-M-A-N 03 - M-J-S-D For Semi Anually: For Semi annual the values are minimum 01 and maximum 06. 01 - J-J 02 - F-A 03 - M-S 04 - A-O 05 - M-N 06 - J-D. For Anually: For Annual the values are minimum 01 and maximum 12. 1-Jan 02 - Feb etc... up to 12-Dec	NMFTMChildRequest
sipgenerateorder	Same Day SIP flag	Char(1)	No	Required for SIP . Y/N	NMFTMChildRequest
creditconfirmation	Credit confirmation	Char(1)	No	1) Value should be always "N" or null or Empty.	NMFTMChildRequest

The invoke requested service and return the following output.

For Success Case:

```
{
  "Status":
    [{
      "servicereturncode": "0",
      "servicemessage": "Success"
    }],
  "Response":
    [{
      requestactivity: "1",
      reasoncode: "INSERT",
      symbol: "HDFC01",
      series: "DP",
      uniquerefnumber: "XXXXXX",
      ordernumber: "XXXXXXXX",
      applnumber: "62143",
      buysell: "2",
      purchasetype: null,
      amount: "0",
      quantity: "1000",
```

dividendmechanism:null,
entrydatetime:"03-Jan-2018 06:30:41 PM",
lastmodified:03-Jan-2018 06:30:41 PM,
depositorysettlement:"D",
depositoryid:"IN123456",
depositoryclientid:"12312312",
depositorycode:"NSDL",
folio number:null,
nnfuserinfo:null,
branchid:"123",
traderid:"3000",
brokercode:"ARN-71987",
subbrokercode:null,
euin:null,
Bypassminredemptioncheck:"N",
modeofholding:"SI",
clientcode1:"1200130014",
clientcode2:null,
clientcode3:null,
clientname1:"TESTAPI",
clientname2:null,
clientname3:null,
pannumber1:"ASDFG1234E",
pannumber2:null,
pannumber3:null,
kycccompliant1:"Y",
kycccompliant2:"N",
kycccompliant3:"N",
occupation:"4",
taxstatus:"01",
addressline1:null,
addressline2:null,
addressline3:null,
city:null,
state:null,
gender:null,
pincode:null,
phoneoffice:null,
phoneresidence:null,
mobilenumber:null,
emailaddress:null,
bank:null,
bankbranch:null,
bankcity:null,
accountno:null,
neftcode:null,
bankaccounttype:null,
statementcommunicationmode:null,
payoutmech:null,
dateofbirth:"03-Jan-1984",
guardianname:null,
guardianpanno:null,
nominee name:null,
nomineerelation:null,
siptransactionindicator:"N",
sipfrequency:null,
sipperiod:null,
sipmonth:null,
sipday_date:null,

```

sipregistrationnumber:"",
sipflag:null,
siptranchenumber:"",
sipgenerateorder:"N",
echoback:"test",
dpc:"N",
umrn:"HFDC00000123654987",
returnmessage:"OK",
returncode:"0"
}}

```

For Failure Case 1:

```

{
  "Status":
    [{
      "servicereturncode":"1",
      "servicemessage":"Failure"
    }],
  "Response":
    [{
      "returnmessage":"Login id should not be null",
      "returncode":"E16001",
      "ordernumber":"XXXXX",
      "sipregistrationnumber":"XXXXX",
      "echoback":"test",
      "entrydatetime":"03-Jan-2018 06:30:41 PM",
      "lastmodified":"03-Jan-2018 06:30:41 PM"
    }]
}

```

Note:

1. For each and every New Order (Purchase/ Redemption) request New Exchange order Numer will be generated for every request and for the order rejection, It will be populated in ordernumber tag, sipregistrationnumber tag will be blank.
2. For each Order Modification/Cancellation(Purchase/Redemption) ,original order number provided in the modification/cancellation request will be populated in ordernumber tag, sipregistrationnumber tag will be blank.
3. For each and every New SIP Registration, New sipregistration number will be generated for every request and SIP rejection and the same will be populated in sipregistrationnumber tag, ordernumber tag will be blank
4. For each SIP Modification/Cancellation, original sip registration number provided in the order modification/ cancellation request will be populated in sipregistrationnumber tag, ordernumber tag will be blank
5. For any API order response Echo Back tag will be part of it.

For Failure Case 2:

```

{
  "Status":
    [{
      "servicereturncode":"1",
      "servicemessage":"Failure"
    }],
  "Response":

```

```
{
  "requestactivity":"1",
  "reasoncode":"INSERT",
  "symbol":"XXX",
  "series":"XXX",
  "uniquerefnumber":"XXX",
  "ordernumber":"XXX",
  "applnumber":"XXX",
  "buysell":"XXX",
  "purchasetype":"XXX",
  "amount":"XXX",
  "quantity":"XXX",
  "dividendmechanism":"",
  "entrydatetime":"03-Jan-2018 06:30:41 PM",
  "lastmodified":"03-Jan-2018 06:30:41 PM",
  "depositorysettlement":"XXX",
  "depositoryid":"",
  "depositoryclientid":"XXX",
  "depositorycode":"XXX",
  "folionumber":"XXX",
  "nnfuserinfo":"XXX",
  "branchid":"XXX",
  "traderid":"XXX",
  "brokercode":"XXX",
  "subbrokercode":"XXX",
  "euin":"XXX",
  "bypassminredemptioncheck":"XXX",
  "modeofholding":"XXX",
  "clientcode1":"XXX",
  "clientcode2":"XXX",
  "clientcode3":"XXX",
  "pannumber1":"XXX",
  "pannumber2":"XXX",
  "pannumber3":"XXX",
  "kyccompliant1":"XXX",
  "kyccompliant2":"XXX",
  "kyccompliant3":"XXX",
  "occupation":"XXX",
  "taxstatus":"XXX",
  "addressline1":"XXX",
  "addressline2":"XXX",
  "addressline3":"XXX",
  "city":"XXX",
  "state":"XXX",
  "gender":"XXX",
  "pincode":"XXX",
  "phoneoffice":"XXX",
  "phoneresidence":"XXX",
  "mobilenumber":"XXX",
  "emailaddress":"XXX",
  "bankbranch":"XXX",
  "bankcity":"XXX",
  "accountno":"XXX",
  "neftcode":"XXX",
  "bankaccounttype":"XXX",
  "payoutmech":"XXX",
  "dateofbirth":"XXX",
  "guardianname":"XXX",
  "guardianpanno":"XXX",
}
```

```

        "nomineename":"XXX",
        "nomineerelation":"XXX",
        "siptransactionindicator":"XXX",
        "sipfrequency":"XXX",
        "sipperiod":"XXX",
        "sipmonth":"XXX",
        "sipday_date":"XXX",
        "sipregistrationnumber":"XXX",
        "sipflag":"XXX",
        "siptranchenumber":"XXX",
        "sipgenerateorder":"XXX",
        "echoback": "",
        "dpc": "N",
        "umrn": "HFDC00000123654987",
        "returnmessage": "User Deposit Limit exceeds",
        "returncode": "E16210"
    }
}

```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Success:

Attributes	Field Description	Data Type	Remarks
Requestactivity	Type Of Activity	char(1)	1- Insert ;3 - Delete ; 4 – Update
siptransactionindicator	Is SIP Trxn	char(1)	S- SIP ; N-Normal Orders
Reasoncode		varchar2(10)	INSERT/MODIFY
Sipfrequency	SIP frequency	varchar2(2)	Applicable for SIP; OM - Once a month ; Q- Quartly ; H - half Yearly; Y – Yearly
Sipperiod	No of Installment	Number	Applicable for SIP

Sipmonth	SIP month	Number	For Monthly : No Need For Quarterly: 01 - J-A-J-O 02 - F-M-A-N 03 - M-J-S-D For Semi Anually: For Semi annual the values are minimum 01 and maximum 06. 01 - J-J 02 - F-A 03 - M-S 04 - A-O 05 - M-N 06 - J-D. For Anually: For Annual the values are minimum 01 and maximum 12. 1-Jan 02 - Feb etc... up to 12- Dec
sipday_date	SIP Date Day	Number	applicable for SIP
Symbol	Symbol	varchar2(20)	HDFC01
Series	Series	varchar2(2)	DP
BuySell	Trxn Type	char(1)	1 - Purchase ; 2 - Redemption; Not Applicable for SIP
Ordernumber	ORDER NUMBER	VARCHAR2(50)	Format: DDMMYYXXXXXX
Applnumber	Application Number	VARCHAR2(20)	Running Number
Purchasetype	To decide Fresh Purchase or Additional Purchase	varchar2(2)	FP - Fresh Purchase ; AP - Additional Purchase; Not applicable for other txn
Amount	Amount	Number	Applicable for Purchase and SIP;
Quantity	Quantity	Number	Amount or unit is required for Redemption
dividendmechanism	Divident Mech.	Varchar2(10)	
Entrydatetime	Entry date time	Date	Format : DD-Mon-YYYY hh12:mi:ss AM
Lastmodified	Last Modify Date Time	Date	Format : DD-Mon-YYYY hh12:mi:ss AM
depositorysettlement	Is demat txn	char(1)	D - Demat Trxn ; P - Physical txn
Depositoryid	DP ID	varchar2(8)	
Depositoryclientid	BEN ID	varchar2(16)	
Depositorycode	depository code	varchar2(4)	NSDL/CDSL
Folionumber	Folio	varchar2(20)	Not Applicable for demat txn

Nnfuserinfo			always empty/null
Branched	User Branch	varchar2(20)	Eg : 123
Traderid	User Code	varchar2(20)	
Brokercode	Broker Code	varchar2(10)	Eg: ARN-XXXX
Subbrokercode			
sipregistrationnumber	Sip Reg No	Number	Format :YYYYMMDDXXXXXX
Sipflag			Not Used
siptranchenumber	SIP Tranche number	Number	
Euin	EUIN	varchar2(10)	
Sipgenerateorder	Same Day Slip flag	char(1)	N - No ; Y – Yes
bypassminredemption check	Bypass Min Amount/unit Redemption check	char(1)	Applicable for Redemption
Modeofholding	Modeofholding	varchar2(2)	SI - Single ; JO - Joint ; AS - Anyone or survivor
clientcode1	Clientcode1	varchar2(20)	IIN -Physical txn ; Client Code - Demat txn
clientcode2	Clientcode2	varchar2(20)	Always empty/NULL
clientcode3	Clientcode3	varchar2(20)	Always empty/NULL
clientname1	Fh Name	varchar2(50)	
clientname2	Jh1 Name	varchar2(50)	
clientname3	Jh2 Name	varchar2(50)	
pannumber1	Pannumber1	varchar2(10)	
pannumber2	Pannumber2	varchar2(10)	
pannumber3	Pannumber3	varchar2(10)	
kyccompliant1	Kyccompliant1	char(1)	always 'Y' for demat txn
kyccompliant2	Kyccompliant2	char(1)	always 'Y' for demat txn
kyccompliant3	Kyccompliant3	char(1)	always 'Y' for demat txn
			Refer Master sec 1.9
Occupation	Occupation	varchar2(2)	
			Refer Master sec 1.9
Taxstatus	Taxstatus	varchar2(2)	
addressline1	Addressline1	varchar2(500)	Always empty/NULL for Demat Trxn
addressline2	Addressline2	varchar2(500)	Always empty/NULL for

			Demat Trxn
addressline3	Addressline3	varchar2(500)	Always empty/NULL for Demat Trxn
City	City	varchar2(500)	Always empty/NULL for Demat Trxn
State	State	varchar2(2)	Refer Master sec 1.9
Gender	Gender	char(1)	Always empty/NULL for Demat Trxn
Pincode	Pincode	varchar2(6)	Always empty/NULL for Demat Trxn
Phoneoffice	Phone Office	varchar2(15)	Always empty/NULL for Demat Trxn
Phoneresidence	Phone Residence	varchar2(15)	
Mobilenumbr	Mobile No	varchar2(15)	
Emailaddress	Email	varchar2(75)	
Bank	Bank Name	varchar2(20)	Always empty/NULL for Demat Trxn
Bankbranch	Bank Branch	varchar2(20)	Always empty/NULL for Demat Trxn
Bankcity	Bankcity	varchar2(20)	Always empty/NULL for Demat Trxn
Accountno	Account No	varchar2(20)	Always empty/NULL for Demat Trxn
Neftcode	Neftcode	varchar2(20)	Always empty/NULL for Demat Trxn
			Refer Master sec 1.9
Bankaccounttype	Bankaccounttype	varchar2(20)	
statementcommunicationmode	Statementcommunicationmode	char(1)	Always empty/NULL
Payoutmech	Payoutmech	varchar2(20)	Always empty/NULL for Demat Trxn
Dateofbirth	Dateofbirth	Date	Format : DD- Mon-YYYY Eg:03-Jan-1984
Guardianname	Guardianname	varchar2(50)	Applicable for Minor
Guardianpanno	Guardianpanno	varchar2(10)	Applicable for Minor
Nomineename	Nomineename	varchar2(50)	Always empty/NULL for Demat Trxn
Nomineerelation	Nomineerelation	varchar2(50)	Always empty/NULL for Demat Trxn
Echoback	Echo back	varchar2(50)	
Dpc	DPC	char(1)	N or Y
Umrn	Unique Mandate Reference No	Varchar2(20)	HDFC00000022
Returnmessage	Return Message	varchar2(250)	Ok
Returncode	Return Code	varchar2(1)	0

Failure:

Attributes	Remarks
Returnmessage	No Data Found
Returncode	E99999
Ordernumber	XXXXXX
Sipregistrationnumber	XXXXXX
Echoback	Test

Note:

1. sipregistrationnumber should not be null for SIP Modification/Deletion.
2. Ordernumber should not be null for Purchase./ Redemption order Modification/Deletion.

1.5.7 Method for Payment Link generation

Method Name: **"PAYMENTLINKGENERATION"**

This service will allow Retrigger email.

Sample Json Request Format

```
{
  "NMFTMRequest":
  [{
    "loginid": "30000",
    "apikey": "XXXXXXX",
    "client_code": "",
    "txn_type": "",
    "Return payment link" : "N"
    "Callback_URL": ""
  }]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
Apikey	API Key	Varchar2(60)	Y	XXXX
Client_code	Client Code	Varchar2(20)	Y	10004
Trxn_Type	Trxn Type	Varchar2(10)	Y	L or S (L – LUMPSUM;S-SYSTEMATIC)
Return payment link	Return payment link	Char(1)	Y	This flag will decide whether MFSS system will trigger email to investor or it should generate payment link in response .
Callback_URL	Callback_URL	Varchar2(4000)	Conditional	If Return payment

			Mandatory	link=Y then callback URL is mandatory.
--	--	--	-----------	--

The invoke requested service and return the following output.

For Success Case: Sample#1

```
{
  "Status":
  [{
    "servicereturncode":"0",
    "servicemessage":"Success"
  }],
  "Response":
  [{
    "Status": "0",
    "Remarks": "PAYMENT LINK SENT SUCCESSFULLY"
    "Return_payment_link":"N",
    "Payment_link",""
  }
}
```

For Success Case: Sample#2

```
{
  "Status":
  [{
    "servicereturncode":"0",
    "servicemessage":"Success"
  }],
  "Response":
  [{
    "Status": "0",
    "Remarks": " PAYMENT LINK GENERATED SUCCESSFULLY"
    "Return_payment_link":"Y",
    "Payment_link":"<<payment link>>"
  }
}
```

```
}}
```

For Failure Case:

```
{
  "Status":
  [{
    "servicereturncode":"1",
    "servicemessage":"Failure"
  }],
  "Response":
  [{
    "Status ":"1",
    " Remarks ":" Error Occurred.",
    "Return_payment_link": "",
    "Payment_link": ""
  }
]
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
Status	0 / 1
Remarks	PAYMENT LINK GENERATED SUCCESSFULLY
Return_payment_link	N / Y
Payment_link	<<Payment Link>>

1.5.8 Method for SIP and UMRN Mapping

Method Name: **"SIPUMRNMAPPING"**

This service will allow to SIP UMRN mapping.

Sample Json Request Format :

```
{
  [{"NMFTMRequest":
    "loginid":"30000",
```

```

    "apikey": "XXXXXX",
    "umrn": "HDFC0000015454",
    "sip_reg_no": "20120120222222",
    "client_code": "007NRE"
  }
}

```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
apikey	API Key	Varchar2(60)	Y	XXXX
umrn	Unique Mandate Reference Number	Varchar2(20)	Y	HDFC000000365
sip_reg_no	SIP Registration No	Varchar2(20)	Y	20120120222222
client_code	Client code	Varchar2(20)	Y	007NRE

The invoke requested service and return the following output

For Success Case:

```

{
  "Status":
  {
    "servicereturncode": "0",
    "servicemessage": "Success"
  },
  "Response":
  {
    "Status": "0",
    "Remarks": "Mapped Successfully"
  }
}

```

For Failure Case:

```

{
  "Status":
  {
    "servicereturncode": "1",
    "servicemessage": "Failure"
  },
  "Response":
  {
    "Status": "1",
    "Remarks": "provided UMRN number does not match for the Client Code"
  }
}

```

Output data as table format:**For Service Status:**

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
Status	0 / 1
Remarks	Mapped Successfully

1.5.9 Method for SUBMITUTRNUMBERMethod Name: **"SUBMITUTRNUMBER"**

This service will allow update the UTR Number and authorize the transaction.

Pass the input as json format mentioned below.

```
{
  "NMFTMRequest": [
    {
      "loginid": "10004",
      "apikey": "NMF|10004NMF0000000079627",
      "client_code": "007NRE",
      "bank_name": "HDFC BANK",
      "acc_no": "50100084831604",
      "rtgs_code": "HFDC0065656",
      "utr_no": "234234234",
      "transfer_date": "01-Jan-2022",
      "order_no": "0302220800041"
    }
  ]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
apikey	API Key	Varchar2(60)	Y	XXXX
Client_code	Client Code	Varchar2(20)	Y	007NRE

Bank_name	Bank Name	Varchar2(100)	Y	HDF
Acc_no	Account no	Varchar2(20)	Y	345345345
Rtgs_code	RTGS Code	Varchar2(11)	Y	HDFC0000004
UTR_no	UTR Number	Varchar2(30)	Y	12123
transfer_date	UTR Date	Date	Y	DD-Mon-YYYY
Order_no	Order_no	Varchar2(80)	Y	Order No can be pipe separated. Maximum No of Orders is 10

The invoke requested service and return the following output

For Success Case:

```
{
  "Status": [
    {
      "servicereturncode": "0",
      "servicemessage": "Success"
    }
  ],
  "Response": [
    {
      "returnmessage": "Transaction authorized Successfully.",
      "returncode": "1"
    }
  ]
}
```

For Failure Case:

```
{
  "Status": [
    {
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }
  ],
  "Response": [
    {
      "returnmessage": "No Record found for this - 0302220800041",
      "returncode": "1"
    }
  ]
}
```

Output data as table format:**For Service Status:**

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
returncode	0 / 1
returnmessage	Transaction authorized Successfully

1.5.10 Method for ACHMANDATEREGISTRATION

Method Name: "ACHMANDATEREGISTRATION"

This service will allow create the ACH details (Physical/ eMandate) .

Pass the input as json format mentioned below.

```
{
  "NMFTMRequest": [
    {
      "loginid": "10004",
      "apikey": "NMF|10004NMF0000000006569",
      "client_code": "007NRE",
      "bank_name": "HDFC BANK",
      "acc_no": "50100084831604",
      "acc_type": "SB",
      "ifsc_code": "AKJB0000025",
      "branch_name": "MUMBAI",
      "uc": "Y",
      "ach_fromdate": "10-Feb-2022",
      "ach_todate": "05-Feb-2025",
      "ach_amount": "1000",
      "micr_no": "946464464",
      "process_mode": "P",
      "debit_type": "FA",
      "return_flag": "N",
      "channel_type": "",
      "bank_holder_name": "Test",
      "bank_holder_name1": "",
      "bank_holder_name2": "",
      "reference": "N",
      "process_flag": ""
    }
  ]
}
```

```

    }
}

```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
apikey	API Key	Varchar2(60)	Y	XXXX
Client_code	Client Code	Varchar2(20)	Y	007NRE
Bank_name	Bank Name	Varchar2(100)	Y	HDF
Acc_no	Account no	Varchar2(20)	Y	345345345
acc_type	Account Type	varchar2(5)	Y	Only IIN registered Bank Account Type need to provide. Value: SB
ifsc_code	IFSC Code	varchar2(11)	Y	Only IIN registered Bank IFSC Code need to provide. Value: HDFC0125484
branch_name	Branch name	varchar2(40)	Y	Only IIN registered Bank Branch need to provide. Value: Chennai
uc	Until Cancelled	CHAR(1)	Y	N. if until_cancelled = "Y" default date will be "31-Dec-2999"
ach_fromdate	ACH From Date	date	Y	22-Feb-2022
ach_todate	ACH To Date	date	Y	22-Feb-2023
ach_amount	ACH Amount	NUMBER (25,8)	Y	5000

micr_no				
process_mode	Process Mode	Char (1)	N	Value should be 'P' or 'E' P = Physical E = eMandate
debit_type	Debit Type	Varchar2(10)	Y	Value should be "FA" or "MA"
return_flag	Return Flag	Varchar2(10)		
channel_type	eMandate Channel Type	Varchar2(20)	N	Value should be 'NET' or 'DC' NET – Netbanking DC – Debit card
bank_holder_name	Bank holder name	Varchar2(70)	Y	
bank_holder_name1	Bank holder name1	Varchar2(70)	N	
bank_holder_name2	Bank holder name2	Varchar2(70)	N	
process_flag	Process Flag	Char(1)	N	Value should be "I" or "E" or "D" In case value empty consider the "I"

The invoke requested service and return the following output

For Success Case: Return Flag = 'N'

```
{
  "Status": [
    {
      "servicereturncode": "0",
      "servicemessage": "Success"
    }
  ],
  "Response": [
    {
      "status": "0",
      "Remarks": "MANDATE REGISTERED SUCCESSFULLY",
      "MANDATE_ID": "2022032480002"
    }
  ]
}
```

}
Return Flag = “Y”

```
{
  "Status": [
    {
      "servicereturncode": "0",
      "servicemessage": "Success"
    }
  ],
  "Response": [
    {
      "status": "0",
      "Remarks": "EMANDATE REGISTERED SUCCESSFULLY",
      "Emandate_link": "https://uat.nsenmf.com/NMFTM_Trxn/MFS_TM_AChMandateConfirmati
on.aspx?1bzDbiqUj5LWO7iymr6zzhrR6Yl8srl50Mjib2KLmtnxvuhRh%2fw1LPsMfv54KF5vEc2eKQXy11tN5GC170
EQH1Qme1G6nhLNit8USH%2buJCSr9bf1vZWMYbsK9KQmMjmHd6iqu4A5LIHaFJna6FORWf3SVwWVdSzLrU4bVlSREpE6
WQLskz6EqdncK3xd7Vw19xUwANH7ZKjBtFD0SGsxJHbcu5F57%2ftUyJGXAZPWYQ%3d"
    }
  ]
}
```

For Failure Case:

```
{
  "Status": [
    {
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }
  ],
  "Response": [
    {
      "status": "1",
      "Remarks": "MANDATE NOT REGISTERED",
      "Error_Code": "REGISTRATION IS ALREADY AVAILABLE WITH THE GIVEN MANDAT
E.",
      "MANDATE_ID": ""
    }
  ]
}
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
status	0 / 1
remarks	Transaction authorized Successfully
Error_code	REGISTRATION IS ALREADY AVAILABLE WITH THE GIVEN MANDATE
Mandate_id	202656565

1.5.11 Method for ACHIMAGEUPLOADMethod Name: **"ACHIMAGEUPLOAD"**

This service will allow to Upload the Image

Pass the input as mentioned below.

Field	Data Type	Mandatory	Remarks
loginid	Varchar2(20)	Y	10004
apikey	Varchar2(15)	Y	NMF 10004NMF0000000079627
client_code	Varchar2(15)	Y	007NRE
Mandate_id	Varchar2(20)	Y	
Image	Stream	Y	Content type should be Application / Ocet-Stream
ImageFormat	Varchar2(15)	N	PDF / TIFF Default value is TIFF.

For Success Case:

```

{
  "Status": [
    {
      "servicereturncode": "0",
      "servicemessage": "Success"
    }
  ],
  "Response": [
    {
      "status": "0",
      "Remarks": "ACH Image Upload SUCCESSFULLY"
    }
  ]
}

```

```
    ]
  }
}
```

For Failure Case:

```
{
  "Status": [
    {
      "servicereturncode": "1",
      "servicemessage": "Failure"
    }
  ],
  "Response": [
    {
      "status": "1",
      "Remarks": "Image Upload failed"
    }
  ]
}
```

Output data as table format:

For Service Status:

XML Tag	Remarks
service_return_code	0 / 1
service_msg	(0) Success / (1) Failure

For Success Case:

Service Response:

XML Tag	Remarks
return_msg	Image Uploaded successfully

For Failure Case:

Service Response:

XML Tag	Remarks
return_msg	Image upload failed.

How to consume ACHIMAGEUPLOAD:

```
Dim url As String = String.Empty
```

```
Dim resp As HttpWebResponse
Dim req As HttpWebRequest

url = "https://uat.nsenmf.com/NMFIITMService/NMFTMService/ACHIMAGEUPLOAD?"
url = url & "loginid=10004&apikey=NMF|10004NMF0000000009928&client_code=007NRE&mandate_id=2022020780004&ImageFormat=TIF"

req = TryCast(HttpWebRequest.Create(url), HttpWebRequest)
req.Method = "POST"
req.ContentType = "application/octet-stream"
req.ContentLength = filebyte.Length
Dim reqStream As Stream = req.GetRequestStream()
reqStream.Write(filebyte, 0, filebyte.Length)
reqStream.Close()

resp = DirectCast(req.GetResponse(), HttpWebResponse)
reader = New StreamReader(resp.GetResponseStream())
Dim content As String = reader.ReadToEnd()
```

1.5.12 Method for Payment Status

Method Name: "PAYMENTSTATUS"

This service will get Payment Status for given Transaction orders.

Sample Json Request Format

```
{
  "NMFTMRequest":
  [{
    "loginid": "30000",
    "apikey": "XXXXXXX",
    "exg_order_ref_no": ""
  }]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000
Apikey	API Key	Varchar2(60)	Y	XXXX
exg_order_ref_no	Exg order ref no	Varchar2(20)	Y	070222800008

The invoke requested service and return the following output.

For Success Case: Sample#1

```
{
  "Status":
  [{
    "servicereturncode": "0",
    "servicemessage": "Success"
  }]
}
```

```

    }},
    "Response":
    [{
        "Status": "0",
        "Remarks": "PAYMENT STATUS RETRIEVED SUCCESSFULLY",
        "Exg_Order_Ref_No": "1602220800001",
        "Client_Code": "007NRE",
        "Payment_Status": "Success",
        "Payment_Mode": "Online",
        "Payment_Ref_No": "344546",
        "Payment_Account_No": "123654789",
        "Payment_Account_Type": "SB",
        "Payment_RTGS_Code": "HDFC0000004",
        "Payment_Amount": "10000",
        "Payment_Bank": "HDFC",
        "Payment_Branch": "Chennai",
        "Payment_Charges": "10",
        "Payment_City": "Chennai",
        "Payment_Done_Date": "16-Feb-2022 05:25:54 PM",
        "CC_Clear_Flag": "Success",
        "CC_Clear_Date": "17-Feb-2022 11:31:19 AM",
        "CC_Clear_Remarks": "XXXX",
        "Order_Status": "Active",
        "Order_Cancel_Date": ""
    }
    ]

```

For Success Case: Sample#2

```

{
    "Status": [
        {
            "servicereturncode": "0",
            "servicemessage": "Success"
        }
    ],
    "Response": [
        {
            "status": "0",
            "Remarks": "PAYMENT STATUS RETRIEVED SUCCESSFULLY",
            "Exg_Order_Ref_No": "080222800003",
            "Client_Code": "007NRE",
            "Payment_Status": "",
            "Payment_Mode": "",
            "Payment_Ref_No": "",
            "Payment_Account_No": "",
            "Payment_Account_Type": "",
            "Payment_RTGS_Code": "",
            "Payment_Amount": "",
            "Payment_Bank": "",
            "Payment_Branch": "",
            "Payment_Charges": ""
        }
    ]
}

```

```

        "Payment_City": "",
        "Payment_Done_Date": "",
        "CC_Clear_Flag": "Rejected",
        "CC_Clear_Date": "",
        "CC_Clear_Remarks": "XXX",
        "Order_Status": "Cancelled",
        "Order_Cancel_Date": "10-Feb-2022 12:11:37 PM"
    }
}
}

```

For Failure Case:

```

{
    "Status":
    [{
        "servicereturncode": "1",
        "servicemessage": "Failure"
    }],
    "Response":
    [{
        "Status": "1",
        "Remarks": "Invalid Exg_Order_Ref_No."
    }]
}

```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
Status	0 / 1
Remarks	PAYMENT LINK GENERATED SUCCESSFULLY
Exg_Order_Ref_No	454522488
Client Code	Client Code
payment_Status	P- pending ; S-Success; R-Rejected ; I- initiated
Payment Mode	OL-Online;TR-Transfer;Q-Cheque;M-Mandate;UPI
Payment Ref no	4589756
Payment Account No	145875656
Payment Account Type	Refer Account Type Master (Section 1.9.1)
Payment RTGS Code	AKJB0000025
Payment Amount	10000
Payment Bank	HDFC

Payment_Branch	Chennai
Payment_Charges	10
Payment_City	Chennai
Payment_Done_Date	17-Feb-2022 11:31:19 AM
CC_Clear_Flag	Y - Success ;R - Reject;N - Pending
CC_Clear_Date	17-Feb-2022 11:31:19 AM
CC_Clear_Remarks	XXXXXXX
Order_Status	A-Active;D-Cancelled
Order_Cancel_Date	17-Feb-2022 11:31:19 AM

1.5.13 Method for ACH Mandate Report

Method Name: “ACHMANDATEREPORT”

This service will get Payment Status for given Transaction orders.

Sample Json Request Format

```
{
  "NMFTMRequest": [
    {
      "loginid": "12345",
      "apikey": "NMF|12345NMF0000000027581",
      "client_code": "RAS123",
      "from_date": "",
      "to_date": "",
      "umrn": "N",
      "mandate_id": ""
    }
  ]
}
```

Input data as table format:

Attributes	Field Description	Data Type	Mandatory	Remarks
loginid	Login Id	Varchar2(20)	Y	30000

Apikey	API Key	Varchar2(60)	Y	XXXX
Client_code	Client Code	Varchar2(20)	N	10004
From_date	From Date	Date(dd-Mon-YYYY)	Y	01-Mar-2022
To_date	To Date	Date(dd-Mon-YYYY)	Y	10-Mar-2022
umrn	UMRN	Varchar2(20)	N	HDFC00000000566
Mandate_id	Mandate ID	Varchar2(20)	N	212145445

The invoke requested service and return the following output.

For Success Case: Sample#1

```
{
  "Status": [
    {
      "servicereturncode": "0",
      "servicemessage": "Success"
    }
  ],
  "Response": [
    {
      "MANDATE_ID": "2022030780004",
      "CLIENT_CODE": "007NRE",
      "BANK_HOLDER_NAME": "rasul test",
      "BANK_CODE": "Allahabad Bank",
      "BANK_BRANCH_NAME": "Chennai",
      "ACC_NO": "9876543210",
      "ACC_TYPE": "Savings Bank",
      "IFSC_CODE": "HDFC0000004",
      "CREATED_DATE": "07-Mar-2022",
      "ACH_START_DATE": "07-Mar-2022",
      "ACH_END_DATE": "31-Dec-2099",
      "AMOUNT": "10000",
      "EMAIL": "abc@gmail.com",
      "FREQUENCY": "As & When Presented",
      "UNTIL_CANCELLED": "Yes",
      "DEBIT_TYPE": "Fixed",
      "ACH_STATUS": "Mandate Request Registered",
      "CREATED_BY": "10004"
    },
    {
      "MANDATE_ID": "2022030780003",
      "CLIENT_CODE": "007NRE",
      "BANK_HOLDER_NAME": "test",
      "BANK_CODE": "HDFC BANK",

```

```

        "BANK_BRANCH_NAME": "MUMBAI",
        "ACC_NO": "50100084831604",
        "ACC_TYPE": "Savings Bank",
        "IFSC_CODE": "AKJB0000025",
        "CREATED_DATE": "07-Mar-2022",
        "ACH_START_DATE": "08-Mar-2022",
        "ACH_END_DATE": "31-Dec-2099",
        "AMOUNT": "1000",
        "EMAIL": "abc@gmail.com",
        "FREQUENCY": "As & When Presented",
        "UNTIL_CANCELLED": "Yes",
        "DEBIT_TYPE": "Fixed",
        "ACH_STATUS": "Mandate Request Registered",
        "CREATED_BY": "10004"
    }
]
}

```

For Failure Case:

```

{
    "Status": [
        {
            "servicereturncode": "1",
            "servicemessage": "Failure"
        }
    ],
    "Response": [
        {
            "returnmessage": "From date not be null",
            "returncode": "1"
        },
        {
            "returnmessage": "TO date should not be null",
            "returncode": "1"
        }
    ]
}

```

For Failure Case 2:

```

{
    "Status": [
        {
            "servicereturncode": "1",
            "servicemessage": "Failure"
        }
    ],
    "Response": [

```

```
{
  "returnmessage": "No Record found",
  "returncode": "1"
}
```

Output data as table format:

For Service Status:

Attributes	Remarks
Servicereturncode	0 / 1
Servicemsg	(0) Success / (1) Failure

For Service Response:

Attributes	Remarks
MANDATE_ID	2022030780003
BD_MANDATE_ID	xxxxxxxxx
CLIENT_CODE	007NRE
BANK_HOLDER_NAME	test
BANK_CODE	HDFC BANK
BANK_BRANCH_NAME	MUMBAI
ACC_NO	XXXXXXX
ACC_TYPE	Savings Bank
MICR_NO	
IFSC_CODE	AKJB0000025
CREATED_DATE	07-Mar-2022
ACH_START_DATE	08-Mar-2022
ACH_END_DATE	31-Dec-2099
AMOUNT	1000
UMRN	XXXXXX
EMAIL	abc@gmail.com
FREQUENCY	Yes
UNTIL_CANCELLED	Fixed
DEBIT_TYPE	As & When Presented
ACH_STATUS	Mandate Request Registered
ACH_REJECTED_REASON	null
CREATED_BY	10004

1.6 Document History Change:

Date	Version	Change Reference
23-Nov-2017	1.0	Document Created and updated
18-Dec-2017	1.1	Document updated
27-Dec-2017	1.2	Document updated
04-Jan-2018	1.3	Master Data Included
09-Jan-2018	1.4	Login Procedure has been changed.
18-Jan-2018	1.5	Correction made on Client Details
04-May-2018	1.7	SIP Registration No Format mentioned
18-May-2018	1.9	catgory_code added in Market Details and bypassminredemptioncheck removed from header tag and added in Child tag.
01-Jun-2018	1.11	SIP Tranchno modification

13-Jun-2018	1.12	DepositorySettlement value changed to D/P from Y/N
15-Jun-2018	1.13	1. Changed response tag names Status_Desc to returnmessage and Status_code to returncode in Method 1.5.8 ORDERMANAGE . 2. Newly added failure response tag name returncode in All methods.
25-Jun-2018	1.14	1. Newly added response tag name apikey in Method 1.5.2 CHANGEPWD 3. Separated Error code assign to all response in Method 1.5.8 ORDERMANAGE .
04-Jul-2018	1.16	Newly added response tag nnfuserinfo,traderid,sipregistrationnumber,Brokerid,rtagentcode in Method 1.5.8 ORDERMANAGE .
04-Jul-2018	1.17	Added new Error codes.
05-Jul-2018	1.18	Added New column (Request type) in input data as table format in Method 1.5.8 ORDERMANAGE .
09-Jul-2018	1.19	SIP registration number is mandatory for SIP Modification/Deletion
23-Jul-2018	1.20	1. Added New request and response tag echoback in Method 1.5.8 ORDERMANAGE . 2. Added new response tag ordernumber in validation error response in Method 1.5.8 ORDERMANAGE .
25-Jul-2018	1.21	Sipregistrationnumber and echoback tag are added in Method 1.5.8 ORDERMANAGE .
27-Jul-2018	1.22	Added two new Error Code

01-Jul-2018	1.23	1. Values are populated in Entrydatetime and lastmodified even for error cases. 2. E16321 error code added
03-Dec-2018	1.25	Added New Request and response tag DPC in Method 1.5.8 ORDERMANAGE .
14-Jan-2019	1.26	Added new Response tags trader_name in Method 1.5.1 LOGIN AND 1.5.2 CHANGEPWD
20-Dec-2019	1.27	Password Length changed In 1.5.1 LOGIN AND 1.5.2 CHANGEPWD
05-Feb-2021	1.28	1) Added New Request tag creditconfirmation in Method 1.5.8 ORDERMANAGE . 2) Added new error codes in in Method 1.8 Service error code .
16-Sep-2021	1.29	1) Added New Method “ UCC ” in section 1.5.9 2) Section 1.9.1 Account Type Master Section 1.9.2 Tax Status Master Section 1.9.3 Occupation Master Section 1.9.4 Country Master Section 1.9.5 State Master Section 1.9.6 PAN Exempt Category Master
20-Dec-2021	1.30	1) Added New Method “ PAYMENTLINKGENERATION ” in section 1.5.7 , “ SIPUMRNMAPPING ” in section 1.5.8 & “ SUBMITUTRNUMBER ” in section 1.5.9. In Order Manage method , changed as value of CC flag must be N and value of DPC flag must be Y 2) Added New Request tag umrn in Method 1.5.8 ORDERMANAGE .
24-Mar-2021	1.31	1) Added New Method “ ACHMANDATEREPORT ” in section 1.5.13 2) Added MANDATE_ID in Response in ACHMANDATEREGISTRATION Section 1.5.10

1.7 Important Note :

Note : Attributes are case sensitive.

1.8 How to consume Service: Test URL:

<https://uat.nsenmf.com/NMFIITMSservice/NMFTMSservice/>

VB.NET :

```

serviceUrl = "https://uat.nsenmf.com/NMFIITMSservice/NMFTMSservice/LOGIN"
Dim InputJson As String = (New JavaScriptSerializer()).Serialize(NMF)
    InputJson = ("{"NMFTMRequest":{"loginid":"MFSS001","password":"TEST$258","brokercode":"ARN-71987","userip":"124.124.98.3"}}")

Dim httpRequest As HttpWebRequest = DirectCast(WebRequest.Create(New Uri(serviceUrl)), HttpWebRequest)
httpRequest.Accept = "application/json; charset=utf-8"
httpRequest.ContentType = "application/json; charset=utf-8"
httpRequest.Method = "POST"

Dim bytes As Byte() = Encoding.UTF8.GetBytes(InputJson)
Using stream As Stream = httpRequest.GetRequestStream()
    stream.Write(bytes, 0, bytes.Length)
    stream.Close()
End Using

Dim WebResp As HttpWebResponse = DirectCast(httpRequest.GetResponse(), HttpWebResponse)
Dim dsAPI As New DataSet()
Dim reader As StreamReader = Nothing
reader = New StreamReader(WebResp.GetResponseStream(), Encoding.UTF8)
Dim content As String = reader.ReadToEnd()
    
```

1.8.1 Service Error Code for ORDERMANAGE:

Code	Error Description
E16000	User IP should not be null.
E16001	Login id should not be null
E16002	API key should not be null
E16003	Password should not be null
E16004	Member Code Required.
E16005	Activity should not be null.
E16006	buy sell should not be null.
E16007	ClientCode1 Required.
E16008	Purchase Type should not be null.
E16009	AMC Code Required.
E16010	Depository Settlement should not be null.
E16011	Depository code Required.
E16012	Depository client ID Required.
E16013	Depository id Required.
E16014	Folio Number Required.
E16015	Symbol Required.
E16016	Series Required.
E16017	Amount Required.
E16018	Quantity should not be null.
E16019	Order Number Required.
E16020	SIP Generate order should not be null
E16021	Sip Frequency should not be null.
E16022	SIP Period should not be null
E16023	SIP daydate should not be null
E16024	SIP month should not be null.
E16025	SIP Transaction indicator should be (S/N).
E16026	Activity should be 1 or 3 or 4.
E16027	Order Number should not be null for Modify/cancel order.
E16028	Depository settlement should be D or P.
E16029	No Records Found for given Clientcode1.
E16030	Trxn is not allowed on NON BUSINESS DAY.

E16031	No Data Found for given Symbol and Series.
E16032	Product Limits not available.
E16033	Entered amount less than minimum amount.
E16034	Entered amount greater than maximum amount.
E16035	Product Limits not available.
E16036	Entered Quantity less than minimum Quantity.
E16037	Entered Quantity greater than maximum Quantity.
E16038	Amount should be Multiples of {Multiples}
E16039	No data found in Product Limits for this product.Please set Product limits for this product.
E16040	Amount not allowed for demat.
E16041	Place order using Either one (Amount or Quantity).
E16042	Either one should be Mandatory Amount or Unit.
E16043	No Data Found for given Symbol and Series.
E16045	Trxn not found or you are trying to modify non-editable fields.
E16046	(DP details or amount) need for Modify order.
E16047	(DP details or quantity) need for Modify order.
E16048	Invalid DP id
E16049	Amount should be positive value.
E16050	Amount Modify not allowed for demat order
E16051	Quantity should be positive value.
E16052	Amount need for Modify order.
E16053	folionumber need for Modify order
E16054	Quantity not required for Modify order (FP/AP).
E16055	(Folionumber or Quantity/Amount) need for Modify order.
E16056	Only Alpha Numeric characters are allowed in Folio.
E16057	Invalid Order Number.
E16058	Provided SIP daydate is not available for the given Scheme.
E16059	Provided No.instalment is not available for the given Scheme
E16060	Provided SIP Month is not available for the given Scheme.
E16061	Product Limits not available
E16062	Entered amount less than minimum amount
E16063	Entered amount greater than maximum amount
E16064	Provided SIP frequency is not available for the given Scheme.
E16065	No Data Found
E16066	Invalid User Credentials {User Code or API key or Password}
E16067	Invalid Authentication Data

E16068	Mandatory Validation Failed
E16069	Business Validation Failed
E16070	Invalid IP
E16071	No Input Data Found
E16072	Invalid Broker Type
E16073	Invalid Usercode
E16074	Invalid Broker code
E16075	Invalid Member code
E16076	Invalid Systematic Type
E16077	Invalid Holding Type
E16078	Invalid Folio No
E16079	Invalid Product_Code
E16080	Invalid Trxn Type
E16081	Invalid Trxn Nature
E16082	Invalid Amount or Unit(s)
E16083	Invalid DP Client Id
E16084	Invalid Sys Date {Period_day}
E16085	Invalid Month {Month}
E16087	Invalid ACH Amount
E16089	Invalid Plan Type
E16090	Invalid Target Product Symbol
E16091	Invalid Target Product Series
E16092	Invalid All Units
E16093	Invalid Scheme Category
E16094	Invalid Order No
E16095	Invalid Branch Code
E16096	Invalid Units
E16097	Invalid DPC
E16098	Invalid Minimum Redemption Check Flag
E16099	Invalid User Trxn No for Switch in Transaction
E16100	Invalid Holding Nature
E16103	Invalid Jh1 Pan
E16104	Invalid Jh2 Pan
E16105	Invalid Guardian Pan
E16106	Invalid Inv DOB Format
E16107	Invalid Acc Type

E16108	Invalid Inv DOB Format
E16109	Invalid Nominee DOB Format
E16110	Invalid Tax Status Code
E16111	Invalid State
E16112	Invalid Email
E16113	Invalid Registrarid/AMC
E16114	Invalid UMRN
E16116	DP Id not Required
E16117	Frequency Required
E16118	Period_day Required
E16119	Target Scheme Required
E16120	Umrn Required
E16121	ACH from date Required
E16122	ACH end date Required
E16123	ACH amount Required
E16124	SIP From Date Required
E16125	SIP To date Required
E16126	Scheme Category Required
E16127	User Group Required
E16128	Branch Code Required
E16129	User_trxn_no Required
E16130	Product Code Required
E16131	Unique Ref No Required
E16132	Fh/Gurdian Pan Required
E16133	Tax Status Code Required
E16134	Holding Nature Required
E16135	Occupation Required
E16136	Investor Name Required
E16137	Jh1 Pan Required
E16138	Jh1 Name Required
E16139	Jh2 Name Required
E16140	Jh2 Pan Required
E16141	Gurdian Pan Required
E16144	User_code Required

E16145	Trxn_Type Required
E16146	Holding Type Required
E16147	Fh/Guardian Kyc Status Required
E16148	Address1 Required
E16149	City Required
E16150	Pincode Required
E16151	State Required
E16152	Nominee Required
E16153	No_of_instalments Required
E16154	You are not authorised person fro this transaction
E16155	Amc not empanneled
E16156	Folio Not Required for this txn {txn_type}
E16157	DP Id Not Required for this txn
E16158	Ben id not Required for this txn
E16159	EUIN no.length should be 7
E16160	EUIN no.should starts with E
E16161	EUIN no.should be a number from second digit
E16162	EUIN opted n, arn_emp_code should be null
E16163	Prospect Mapping not available
E16164	DP Master Mapping not Available {client_code} {broker_code}
E16165	Debarred pan
E16166	RIA not Empanaled
E16168	Scheme not Eligible for SIP {series} {symbol} {product_code}
E16169	Trxn Time not Opend or Closed {series} {symbol} {product_code}
E16170	Weekly Holiday for this scheme {series} {symbol} {product_code}
E16171	This Scheme not Eligible for Depository {dp_code} {product_code} {amc_code}
E16172	Trxn Could not be Accepted on Holidays
E16173	Total SIP Amount across Tranches Should be greater than or equal to {value}
E16174	NFO not in Window
E16175	SIP not Allowed for this Scheme {product_code}
E16176	SWP not Allowed for this Scheme {product_code}
E16177	STP-out not Allowed for this Scheme {product_code}
E16178	STP-in not Allowed for this Scheme {product_code}
E16179	STP-in and out Product Should not be same
E16180	Amount should be Greater than Minimum Amount

E16181	Amount should be less than Maximum amount
E16182	Amount should be less than Minimum amount
E16183	Amount should be in Multiples of {multiples}
E16184	Same day SIP trigger cannot be no as the date of sip Registration is the same as sip date selected
E16185	Unable to Calculate Sys From date
E16186	Sys from date should not be null
E16187	From date should not be less than Current date
E16188	Unable to calculate Sys to date.
E16189	Sys to date should not be null
E16190	To date should not be less than Current date
E16191	Transaction Amount can not Exceed Mandate Amount
E16192	Difference between current date and SIP from date should be 7 days
E16193	SIP from date should be greater than or equal to ACH from date
E16194	SIP to date should be less than or equal to ACH end date
E16195	Not Logged in {usercode} {brokercode}
E16196	DPC Applicable for Purchase only
E16197	Minimum Redemption check flag applicable for Redemption only
E16198	Client code Mapping not Available {Client Code} {Member Code}
E16199	DP Master Mapping not Available
E16200	Fh and Jh1 client code should not be same
E16201	Fh and Jh2 client code should not be same
E16202	Jh1 and Jh2 client code should not be same
E16203	Fatca not Register/Not Verified
E16208	Trxn Type not Allowed for NFO
E16209	Purchase not Allowed for this Symbol {symbol}
E16210	User Deposit Limit Exceeds
E16211	Branch Deposit Limit Exceeds
E16212	Redemption not Allowed for this Symbol {symbol}
E16213	No Corresponding switch-out Transaction
E16214	More switch-out entries for the switch-in
E16215	Source Product and Target Product should not be same
E16216	Zero Divide error Product Limits
E16217	Value_error error Product Limits
E16218	Units should be greater than Minimum units
E16219	Units should be less than Maximum units

E16220	No data found in Prospect
E16221	No data found in Client Master
E16222	No data found in DP Master
E16223	Previous day Trxn cant be Edited
E16224	Market closed.trxn cant be Edited
E16225	Trxn not found or you are trying to modify non-editable fields
E16226	Tranche Order can not be Edited
E16228	No data found in Product Limits
E16231	Units should be in Multiples of {multiples}
E16234	Depositoryid Not Required.
E16235	invalid DP ID
E16236	Invalid frequency
E16237	Invalid Instalment no
E16238	Previous day Trxn cant be deleted
E16239	Market Closed.Trxn cant be delete
E16240	Transaction not found
E16241	Can not be delete Tranch
E16242	No Records found in PATD
E16243	Cease Date not available
E16244	Auto_trxn_no Required
E16245	Trxn_type Required
E16246	Same_day_sip flag Required
E16247	SIP Reg No Required
E16248	Invalid Period day
E16249	you are not authorised person for this transaction
E16250	holding code required
E16251	client code already exist {client code}
E16252	maximum length of client code is 10 characters
E16253	invalid depository code
E16254	dp id should be 8 characters
E16255	depository client id should be 8 characters
E16256	depository id not required for cdsI
E16257	depository client id should be 16 characters
E16258	invalid investor pan
E16259	holding mode should be single for miner

E16260	investor dob required
E16261	guardian name required
E16262	dob required
E16263	investor pan required
E16264	investor pan and gurdian pan should not be same
E16265	investor pan and joint1 pan should not be same
E16266	investor pan and joint2 pan should not be same
E16267	gurdian pan and joint1 pan should not be same
E16268	gurdian pan and joint2 pan should not be same
E16269	joint1 pan and joint2 pan should not be same
E16270	depositoryid start with in
E16271	mode of holding should not be null
E16272	guardian name should not be null
E16273	age should be less than 18 years for selected tax status.
E16274	clientname2 should not be null
E16275	Pannumber2 should not be null
E16276	Pannumber3 should not be null
E16277	Invalid Clientcode1
E16278	Invalid Pan
E16279	Invalid client pan2
E16280	Invalid client pan3
E16281	Clinet name required
E16282	Broker code required
E16283	Gender Required
E16284	Fh1 kyc complaint required
E16285	Fh1 address1 required
E16286	Fh1 city required
E16287	Fh1 state required
E16288	Fh1 pincode required
E16289	Fh1 email required
E16290	Mobile no required
E16291	Fh bank required
E16292	Fh1 bank branch required
E16293	Fh1 bank acc no required
E16294	Fh1 bank acc type required
E16295	Fh1 payment mech required

E16296	MICR/IFSC/NEFT required
E16297	Maximum length of MICR/IFSC/NEFT is 12 characters
E16298	IFSC/NEFT should be 11 characters
E16300	Invalid IFSC code format
E16301	Fh1 bank city required
E16302	Statement of communication required
E16303	Invalid payment mechanism
E16304	Guardian name required
E16305	Nominee relation required
E16306	Nominee name required
E16307	Client name should be less than 100 characters
E16308	Gender should be either male or female
E16309	KYC complaint should be either yes or no
E16310	City should be less than 50 characters
E16311	Pincode should be 6 characters
E16312	Office phone no should be 15 characters
E16313	Residence phone no should be 15 characters
E16314	Mobile no should be 10 characters
E16315	Guardian name should be less than 100 characters
E16316	Nominee name should be less than 100 characters
E16317	Nominee relation should be less than 50 characters
E16318	Statement come mode should be either Physical or Electronic
E16319	Invalid buysell value
E16320	SIP txn Purchasetype should be FP
E16321	Applnumber length should be less then or equal to 10 digit
E16322	Invalid characters present in Investor Name
E16322	Invalid characters present in Gurdian Name
E16322	Invalid characters present in Joint1 Holder Name
E16322	Invalid characters present in Joint2 Holder Name
E16323	SIP DAY should be 10 for this symbol and series
E16324	Credit confirmation update should be between txn start time and credit confirmation cut of time
E16325	Credit confirmation reported txn cant be edited
E16326	Credit confirmation txn cant be delete, credit confirmation cut of time Closed
E16327	Credit confirmation txn cant be delete, market Closed

E99999	Unhandled Exception run time error will be throw
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1.9 Masters:

1.9.1 Account Type Master

ACCOUNT TYPE	DESCRIPTION
SB	Savings Bank
CB	Current Bank
NRE	Non Resident External Account
NRO	Non Resident Ordinary

1.9.2 Tax Status Master

TAX STATUS CODE	TAX STATUS DESCRIPTION
1	Individual
2	On Behalf Of Minor
3	HUF
4	Corporate
5	AOP
6	Partnership Firm
7	Body Corporate
8	Trust
9	Society
10	Others
11	NRI-Others
12	DFI
13	Sole Proprietorship
21	NRE
22	OCB
23	FII
24	NRO
25	Overseas Corp. Body - Others
26	NRI Child
27	NRI - HUF (NRO)

28	NRI - Minor (NRO)
29	NRI - HUF (NRE)
31	Provident Fund
32	Super Annuation Fund
33	Gratuity Fund
34	Pension Fund
35	New Pension Scheme
37	NPS Trust
41	QFI – Individual
47	Limited Liability Partnership
51	Public Limited Company
52	Private Limited Company
53	Unlisted Company
55	FPI - Category I
56	FPI - Category II
57	FPI - Category III
60	Insurance Company
61	OCI - Repatriation
62	OCI - Non Repatriation
70	Person of Indian Origin
72	Government Body
73	Defense Establishment
74	Non - Government Organisation
76	Artificial Juridical Person

1.9.3 Occupation Master

OCCUPATION CODE	OCCUPATION DESCRIPTION
1	Business
2	Services
3	Professional
4	Agriculture
5	Retired
6	Housewife

7	Student
8	Others
9	Not specified
41	Private Sector Service
42	Public Sector / Government Service
43	Forex Dealer
44	Government Service
99	Unknown / NotApplicable

1.9.4 Country Master

COUNTRY CODE	COUNTRY NAME
001	Afghanistan
002	Aland Islands
003	Albania
004	Algeria
005	American Samoa
006	Andorra
007	Angola
008	Anguilla
009	Antarctica
010	Antigua And Barbuda
011	Argentina
012	Armenia
013	Aruba
014	Australia
015	Austria
016	Azerbaijan
017	Bahamas
018	Bahrain
019	Bangladesh
020	Barbados
021	Belarus
022	Belgium

023	Belize
024	Benin
025	Bermuda
026	Bhutan
027	Bolivia
028	Bosnia And Herzegovina
029	Botswana
030	Bouvet Island
031	Brazil
032	British Indian Ocean Territory
033	Brunei Darussalam
034	Bulgaria
035	Burkina Faso
036	Burundi
037	Cambodia
038	Cameroon
039	Canada
040	Cape Verde
041	Cayman Islands
042	Central African Republic
043	Chad
044	Chile
045	China
046	Christmas Island
047	Cocos (Keeling) Islands
048	Colombia
049	Comoros
050	Congo
051	Congo, The Democratic Republic Of The
052	Cook Islands
053	Costa Rica
054	Cote D'Ivoire
055	Croatia
056	Cuba

057	Cyprus
058	Czech Republic
059	Denmark
060	Djibouti
061	Dominica
062	Dominican Republic
063	Ecuador
064	Egypt
065	El Salvador
066	Equatorial Guinea
067	Eritrea
068	Estonia
069	Ethiopia
070	Falkland Islands (Malvinas)
071	Faroe Islands
072	Fiji
073	Finland
074	France
075	French Guiana
076	French Polynesia
077	French Southern Territories
078	Gabon
079	Gambia
080	Georgia
081	Germany
082	Ghana
083	Gibraltar
084	Greece
085	Greenland
086	Grenada
087	Guadeloupe
088	Guam
089	Guatemala
090	Guernsey

091	Guinea
092	Guinea-Bissau
093	Guyana
094	Haiti
095	Heard Island And Mcdonald Islands
096	Holy See (Vatican City State)
097	Honduras
098	Hong Kong
099	Hungary
100	Iceland
101	India
102	Indonesia
103	Iran, Islamic Republic Of
104	Iraq
105	Ireland
106	Isle Of Man
107	Israel
108	Italy
109	Jamaica
110	Japan
111	Jersey
112	Jordan
113	Kazakhstan
114	Kenya
115	Kiribati
116	Korea, Democratic Peoples Republic
117	Korea, Republic Of
118	Kuwait
119	Kyrgyzstan
120	Lao Peoples Democratic Republic
121	Latvia
122	Lebanon
123	Lesotho
124	Liberia

125	Libyan Arab Jamahiriya
126	Liechtenstein
127	Lithuania
128	Luxembourg
129	Macao
130	Macedonia, The Former Yugoslav Republic Of
131	Madagascar
132	Malawi
133	Malaysia
134	Maldives
135	Mali
136	Malta
137	Marshall Islands
138	Martinique
139	Mauritania
140	Mauritius
141	Mayotte
142	Mexico
143	Micronesia, Federated States Of
144	Moldova, Republic Of
145	Monaco
146	Mongolia
147	Montserrat
148	Morocco
149	Mozambique
150	Myanmar
151	Namibia
152	Nauru
153	Nepal
154	Netherlands
155	Netherlands Antilles
156	New Caledonia
157	New Zealand
158	Nicaragua

159	Niger
160	Nigeria
161	Niue
162	Norfolk Island
163	Northern Mariana Islands
164	Norway
165	Oman
166	Pakistan
167	Palau
168	Palestinian Territory, Occupied
169	Panama
170	Papua New Guinea
171	Paraguay
172	Peru
173	Philippines
174	Pitcairn
175	Poland
176	Portugal
177	Puerto Rico
178	Qatar
179	Reunion
180	Romania
181	Russian Federation
182	Rwanda
183	Saint Helena
184	Saint Kitts And Nevis
185	Saint Lucia
186	Saint Pierre And Miquelon
187	Saint Vincent And The Grenadines
188	Samoa
189	San Marino
190	Sao Tome And Principe
191	Saudi Arabia
192	Senegal

193	Serbia And Montenegro
194	Seychelles
195	Sierra Leone
196	Singapore
197	Slovakia
198	Slovenia
199	Solomon Islands
200	Somalia
201	South Africa
202	South Georgia And The South Sandwich Islands
203	Spain
204	Sri Lanka
205	Sudan
206	Suriname
207	Svalbard And Jan Mayen
208	Swaziland
209	Sweden
210	Switzerland
211	Syrian Arab Republic
212	Taiwan, Province Of China
213	Tajikistan
214	Tanzania, United Republic Of
215	Thailand
216	Timor-Leste
217	Togo
218	Tokelau
219	Tonga
220	Trinidad And Tobago
221	Tunisia
222	Turkey
223	Turkmenistan
224	Turks And Caicos Islands
225	Tuvalu
226	Uganda

227	Ukraine
228	United Arab Emirates
229	United Kingdom
230	United States of America
231	United States Minor Outlying Islands
232	Uruguay
233	Uzbekistan
234	Vanuatu
235	Venezuela
236	Viet Nam
237	Virgin Islands, British
238	Virgin Islands, U.S.
239	Wallis And Futuna
240	Western Sahara
241	Yemen
242	Zambia
243	Zimbabwe

1.9.5 State Master

STATE CODE	STATE NAME
UC	Uttaranchal
MP	Madhya Pradesh
GO	Goa
UP	Uttar Pradesh
AP	Andhra Pradesh
TN	Tamil Nadu
SI	Sikkim
AS	Assam
WB	West Bengal
GU	Gujarat
MA	Maharashtra
HP	Himachal Pradesh
MN	Manipur

OR	Orissa
PO	Pondicherry
ME	Meghalaya
RA	Rajasthan
PU	Punjab
MI	Mizoram
AN	Andaman Nicobar
NA	Nagaland
TR	Tripura
AR	Arunachal Pradesh
BH	Bihar
CH	Chandigarh
HA	Haryana
ND	New Delhi
CG	Chhattisgarh
JK	Jharkhand
KA	Karnataka
KE	Kerala
DL	DELHI
JM	JAMMU KASMIR
UL	Uttarakhand
TG	Telangana(New)
LD	Lakshadweep
DN	Dadra
DD	Daman
AD	Andhra Pradesh(New)
TS	Telangana
XX	Others

1.9.6 PAN Exempt Category Master

Category	Description
01	SIKKIM Resident
02	Transactions carried out on behalf of STATE GOVT
03	Transactions carried out on behalf of CENTRAL GOVT

04	COURT APPOINTED OFFICIALS
05	UN Entity/Multilateral agency exempt from paying tax in India
06	Official Liquidator
07	Court Receiver
08	Investment in Mutual Funds Upto Rs. 50,000/- p.a. including SIP