APPLICATION PROGRAMMING INTERFACE

Version 1.0

ABSTRACT
Contains interface specification for connecting to the stock exchange systems like the Trading and Depository.
Lockminds Company Limited

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Document Control

Disclaimer

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Version Control

Date	Version	Action	Authors
04/11/2023	1.0	Creation	- Lockminds Dev Team - Edgar J. Nyabagaka (iTrust)

Scope

The following section will provide in detail all the functions that are in the scope of the interface. The functions can be accessed through given end points for API. The API uses the REST protocol and requests and responses are in application/json format. Every submission must include a valid signature, base64 of ClientID(id) and bearer token on **authorization** header.

Note: ClientID is the Logged User ID

- Some request submission requires a call-back URL to communicated and send result after a certain task is completed.
- The initial instant response from the API upon submission will be an acknowledgement with the relevant response code.
- Response codes have two broad categories namely code or data.
- There are multiple failure response codes ranging from 100 onwards, depending on the nature of the failure.
- After successful submission, the request will be processed accordingly.

Token Generation

Before consuming other endpoints you must perform a login call to receive an API token that will be used for accessing protected resources.

URL:base-url/tokens/create

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
grant_type	String	Mandatory	password
client_id	String	Mandatory	Must be specified
secret	String	Mandatory	Must be specified
username	String	Mandatory	Must be specified
password	String	Mandatory	Must be specified
Scope	String	Mandatory	*

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

The client id and the client secret will be provided by the Lockminds Team.

Request Body

```
{
"grant_type": "password",
"client_id": "9a8d51be-19ff-4814-ad95-f91f804cf05b ",
"client_secret": "PTNj3ReXt6csJwmJqZTU8oy2aJrU4no6uRqrdpyp ",
"username":"ed-tester",
"password":"edTester@2Q$5c",
"scope":"*"
}
```

Response

```
{
    "token_type": "Bearer",
    "expires_in": 1295999,
    "access_token":"eyJ0eX….",
    "refresh_token": "def5020044292…"
}
```

The access token from the response will be used to access protected resources.

OTP Verification

URL:base-url/valitade_otp

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
otp	String	Mandatory	Must be specified

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Request Body:

{

"otp":"379177"

}

Response

{

 "code":**100**,
data: {   "message": "success"}
}

OTP Resend

URL:base-url/resend_otp

Method Type: **POST**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Client Account Registration

This API is used to open a new client account to Brokerlink.

URL: base-url/customers/onboard/account/create

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
type	string	Mandatory	
firstname	string	Mandatory	
middlename	string	Optional	
lastname	string	Mandatory	
email	string	Mandatory	
country_code	string	Mandatory	
mobile	string	Mandatory	
password	string	Mandatory	
password_confirmation	string	Mandatory	
terms_of_service	Boolean	Mandatory	
required_email_verification	Boolean	Mandatory	

Request

```
{
    "type":"individual",
    "firstname":"Ed-Tester",
    "middlename":"John",
    "lastname":"Doe",
    "email":"me@example.com",
    "country_code":"TZ",
    "mobile":"255xxxxxxxxx",
    "password":"Ed@$5dfs**",
    "password_confirmation":" Ed@$5dfs**",
    "terms_of_service": true,
    "required_email_verification":false
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Individual Profile

Update Personal Information

URL: {{base_url}}/customers/profile/individual/update-personal-information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
title	string	Mandatory	
firstname	string	Mandatory	
middlename	string	Optional	
lastname	string	Mandatory	
gender	string	Mandatory	
dob	string	Mandatory	
id_type	string	Mandatory	
identity	string	Mandatory	
tin	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "title": "Mr.",
    "firstname": "Ed-Tester",
    "middlename": "Johnson",
    "lastname": "Doe",
    "gender": "male",
    "dob": "1999-05-27",
    "id_type":"Passport",
    "identity": "12489789478676678",
    "tin": "235-315-341",
    "position":"CEO"
}
```

Response

```
{
    "code":100,
    "message": "Account Updated Successfully"
}
```

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Update Contact Information

URL: {{base_url}}/customers/profile/individual/update_contact_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
mobile	string	Mandatory	
nationality	string	Mandatory	
country_code	string	Mandatory	
address	string	Mandatory	
email	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "mobile": "0746251344",
    "nationality": "Tanzanian",
    "country_code": "TZ",
    "address": "the addresses",
    "email": "me@example.com"
}
```

Response

```
{
    "code":100,
    "message": "Account Updated Successfully"
}
```

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Update Employment Information

URL: {{base_url}}/customers/profile/individual/update_employment_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
employment_status	string	Mandatory	
employer_name	string	Mandatory	
current_occupation	string	Mandatory	
business_sector	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "employment_status": "employed",
    "employer_name": "Lockminds",
    "current_occupation": "CEO",
    "business_sector": "3"
}
```

Response

```
{
    "code":100,
    "message": "Account updated successfully"
}
```

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Update Files Information

URL: {{base_url}}/customers/profile/individual/update_files_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
passport_file	image	Mandatory	png
tin_file	pdf, image	Mandatory	pdf png
signature_file	image	Mandatory	png
identity_file	pdf, image	Mandatory	pdf png

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
   "code":100,
   "message": "Account updated successfully"
}
```

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Joint Profile

Update Personal Information

URL: {{base_url}}/customers/profile/individual/update-personal-information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
title	string	Mandatory	
firstname	string	Mandatory	
middlename	string	Optional	
lastname	string	Mandatory	
gender	string	Mandatory	
dob	string	Mandatory	
id_type	string	Mandatory	
identity	string	Mandatory	
tin	string	Mandatory	
position	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
"title": "mrs",
"firstname": "Ed-Tester",
"middlename": "Johnson",
"lastname": "Doe",
"gender": "female",
"dob": "2000-04-27",
"id_type":"NIDA",
"identity": "12489789478676746",
"tin": "235-345-362"
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Update Contact Information

URL: {{base_url}}/customers/profile/individual/update_contact_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
mobile	string	Mandatory	
nationality	string	Mandatory	
country_code	string	Mandatory	
address	string	Mandatory	
email	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "mobile": "0746251393",
    "nationality": "Tanzanian",
    "country_code": "TZ",
    "address": "the addresses",
    "email": "fe@example.com"
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Update Employment Information

URL: {{base_url}}/customers/profile/individual/update_employment_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
employment_status	string	Mandatory	
employer_name	string	Mandatory	
current_occupation	string	Mandatory	
business_sector	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Request

```
{
    "employment_status": "employed",
    "employer_name": "Openminds",
    "current_occupation": "CFO",
    "business_sector": "5"
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

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Update Files Information

URL: {{base_url}}/customers/profile/individual/update_files_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
passport_file	image	Mandatory	png
tin_file	pdf, image	Mandatory	pdf png
signature_file	image	Mandatory	png
identity_file	pdf, image	Mandatory	pdf png

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Corporate Profile

Update Information

URL: {{base_url}}/customers/profile/corporate/update_corporate_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
board_resolution	string	Mandatory	
tin_certificate	string	Mandatory	
certificate_incorporation	string	Mandatory	
corporate_type	string	Mandatory	
other_corporate_type	string	Mandatory	
corporate_name	string	Mandatory	
corporate_telephone	string	Mandatory	
corporate_email	string	Mandatory	
corporate_trade_name	string	Mandatory	
business_sector	string	Mandatory	
corporate_address	string	Mandatory	
corporate_building	string	Mandatory	
corporate_reg_number	string	Mandatory	
corporate_tin	Mandatory	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "board_resolution":"board_resolution",
    "tin_certificate":"tin_certificate",
    "certificate_incorporation":"certificate_incorporation",
    "corporate_type":"corporate_type",
    "other_corporate_type":"other_corporate_type",
    "corporate_name":"corporate_name",
    "corporate_telephone":"corporate_telephone",
    "corporate_email":"corporate@email.com",
    "corporate_trade_name":"corporate_trade_name",
    "business_sector":"18",
    "corporate_address":"corporate_address",
    "corporate_building":"corporate_building",
    "corporate_reg_number":"corporate_reg_number",
    "corporate_tin":"corporate_tin"
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Update Files Information

URL: {{base_url}}/customers/profile/corporate/update_files_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
certificate_incorporation	pdf, image	Mandatory	pdf png
tin_certificate	pdf, image	Mandatory	pdf png
board_resolution	pdf, image	Mandatory	pdf png

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Update Next of Kin

URL: {{base_url}}/customers/profile/update_next_of_kin_information

Method Type: **POST**

Body Parameters – Form data

Name	Data Type	Condition	value
relationship	string	Mandatory	
name	string	Mandatory	
email	string	Mandatory	
mobile	string	Mandatory	

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "relationship": "Parent",
    "name": "Nickson Chingoma",
    "email": "parent@examplel.com",
    "mobile": "255653743604"
}
```

Response

```
{
    "code":100,

data: {    "message": "success"}
}
```

Account Information

URL:base-url/customers/profile/information

Method Type: **POST**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
   "code":100,

   "data": []
}
```

Holdings

Note: This request does not have a body.

Bonds

URL: {{base_url}}/holdings/bonds

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
   "code":100,

   "data": []
}
```

Equities

URL: {{base_url}}/holdings/equities

Method Type: **GET**

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Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
"data": [
{
"id": "4",
"security": "Jatu",
"total_buy": 37801,
"total_sell": 0,
"total": 37801
}
],
"code": 100
}
```

Statement

URL: {{base_url}}/holdings/statement

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
   "code":100,

   "data": []
}
```

Portfolio

URL: {{base_url}}/holdings/portfolio

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
"code": 100,
"sum_equity_buy": 0,
"sum_equity_sell": 0,
"total_equity": 0,
"sum_bond_buy": 0,
"sum_bond_sell": 0,
"total_bond": 0,
"wallet": 0
}
```

Equity Trading

Buy Order

URL: {{base_url}}/trading/equities/buy

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "use_custodian": true,
    "custodian": "7e50af7b-96db-4bb2-85de-68b34dd1bdc7",
    "price": 1000,
    "volume": 1000000,
    "type": "buy",
    "security": "1"
}
```

Response

```
{
   "code":100,

   "message": "Order Placed Successfully."
}
```

Sell Order

URL: {{base_url}}/trading/equities/sell

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
   "use_custodian": true,
   "custodian": "7e50af7b-96db-4bb2-85de-68b34dd1bdc7",
   "price": 1000,
   "volume": 1000000,
   "type": "buy",
   "security": "1"
}
```

Response
```
{
"data": "Order Placed Successfully.",
"code": 100
}
```

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All Orders

URL: {{base_url}}/trading/equities/orders

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
    "code":100,

    "data": []
}
```

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Pending Orders

URL: {{base_url}}/trading/equities/pending

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
"data": {
"current_page": 1,
"data": [
{
"id": "a5572a61-347c-47fa-91cf-fea8cf9b48f8",
"vat": "1506600",
"cmsa": "1400000",
"dse": "1400000",
"fidelity": "200000",
"cds": "708000",
"total_fees": "13584600",
"brokerage": "8370000",
"payout": "1013584600",
"volume": "1000000",
"price": "1000",
"type": "buy",
"amount": "1000000000",
"date": "2023-11-08 09:24:54",
"status": "new",
"security": "Vodacom"
},
],
}
"code": 100
}
```

Order Details

URL: {{base_url}}/trading/equities/order?id={{order-id}}

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Query Params:

id=order-id

e.g: {{base_url}}/trading/equities/order?id=fbf61198-f4e5-4612-be8a-86c4293c6c2d

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Response

```
{
"data": {
"id": "fbf61198-f4e5-4612-be8a-86c4293c6c2d",
"vat": "0",
"cmsa": "0",
"dse": "0",
"fidelity": "0",
"cds": "0",
"total_fees": "0",
"brokerage": "0",
"payout": "0",
"volume": "240000",
"price": "880",
"type": "sell",
"amount": "211200000",
"date": "2023-11-08 11:00:15",
"status": "complete",
"reference": "ITFL/2023/8",
"security": "Yetu",
"execution": [
{
"id": "c2b36dfa-b12e-4cd6-9653-e57265d919f5",
"reference": "EQS10112023/5",
"slip_no": "112423454358",
"vat": "370728",
"cmsa": "295680",
"dse": "295680",
"fidelity": "42240",
"cds": "149529.6",
"total_fees": "3213457.6",
"brokerage": "2059600",
"payout": "207986542.4",
"volume": "240000",
"price": "880",
"executed": "240000",
"type": "sell",
"amount": "211200000",
"trade_date": "2023-11-08 11:02:16",
"settlement_date": "2023-11-13",
"status": "approved"
}
]
},
"code": 100
}
```

Order Meta Data

URL: {{base_url}}/trading/equities/order-resources

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": {}
}
```

Calculate

Method Type: **GET**

URL: {{base_url}}/trading/equities/calculate

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": {}
}
```

Bond Trading

Buy Order

URL: {{base_url}}/trading/bonds/buy

Method Type: **POST**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
   "use_custodian": true,
   "custodian": "7e50af7b-96db-4bb2-85de-68b34dd1bdc7",
   "price": 1000,
   "volume": 1000000,
   "type": "buy",
   "security": "1"
}
```

Response

```
{
   "code":100,

   "message": "Order Placed Successfully."
}
```

Sell Order

Method Type: **POST**

URL: {{base_url}}/trading/bonds/sell

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Request

```
{
    "use_custodian": true,
    "custodian": "7e50af7b-96db-4bb2-85de-68b34dd1bdc7",
    "price": 1000,
    "volume": 1000000,
    "type": "buy",
    "security": "1"
}
```

Response
```
{
"data": "Order Placed Successfully.",
"code": 100
}
```

All Orders

URL: {{base_url}}/trading/bonds/orders

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
"data": [
 {
   "bond": "T BOND 7777",
   "total_buy": 10000000000,
   "total_sell": 0,
   "total": 10000000000
 }
],
"code": 100
}
```

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Pending Orders

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Response

```
{
"data": {
"current_page": 1,
"data": [
{
"id": "662a0956-945e-412d-bc12-5e1787cca779",
"vat": "536589",
"cmsa": "0",
"dse": "0",
"cds": "0",
"total_fees": "3517639",
"brokerage": "2981050",
"payout": "11871482361",
"face_value": "9500000000",
"price": "125",
"type": "sell",
"amount": "11875000000",
"date": "2023-11-08 12:03:38",
"status": "new",
"bond": "T BOND 7777"
}
],
"code": 100
}
```

Order Details

URL: {{base_url}}/trading/bonds/order?id={{order-id}}

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json
id	string		User-id

Query Params

e.g {{base_url}}/trading/bonds/order?id=662a0956-945e-412d-bc12-5e1787cca779

Response

```
{
"data": {
"id": "662a0956-945e-412d-bc12-5e1787cca779",
"vat": "536589",
"cmsa": "0",
"dse": "0",
"cds": "0",
"total_fees": "3517639",
"brokerage": "2981050",
"payout": "11871482361",
"face_value": "9500000000",
"price": "125",
"type": "sell",
"amount": "11875000000",
"date": "2023-11-08 12:03:38",
"status": "new",
"reference": "TBO/2023/2",
"execution": []
},
"code": 100
}
```

Order Meta Data

URL: {{base_url}}/trading/bonds/order-resources

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

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Response

```
{
"data": {
"code": 100,
"sum_equity_buy": 287802,
"sum_equity_sell": 243700,
"total_equity": 44102,
"sum_bond_buy": 10000000000,
"sum_bond_sell": 0,
"total_bond": 10000000000,
"wallet": 0,
"bonds": [
{
"id": "accd56ff-3d7a-41b7-b641-35e172d3ac22",
"security_name": "T BOND 2345",
"category": "bill",
"market": "secondary"
},
{
"id": "d134dab1-924b-450d-99b4-86116313cf2d",
"security_name": "T BOND 7777",
"category": "bond",
"market": "primary"
}
],
"custodians": [
{
"id": "426f3da7-1506-4c8a-9cd5-7d9ee2567035",
"user_id": "0ceacb56-6a45-4b86-b591-7246a3c75908",
"custodian_id": "7e50af7b-96db-4bb2-85de-68b34dd1bdc7",
"status": "active",
"created_at": "2023-11-09 22:22:44",
"updated_at": "2023-11-09 22:22:44"
}
]
},
"code": 100
}
```

Calculate

URL: {{base_url}}/trading/bonds/calculate

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": {}
}
```

Banks

URL: {{base_url}}/banks

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Companies

URL: {{base_url}}/companies

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Custodians

URL: {{base_url}}/custodians

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Bonds

URL: {{base_url}}/bonds

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Account Types

URL: {{base_url}}/account_types

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Identity Types

URL: {{base_url}}/identity_types

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Employment Types

URL: {{base_url}}/employment_statuses

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
    "code":100,

    "data": []
}
```

Countries

URL: {{base_url}}/countries

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
   "code":100,

   "data": []
}
```

Sectors

URL: {{base_url}}/sectors

Method Type: **GET**

Headers Parameter

Name	Data Type	Condition	value
Content-type	String		Application / json

Response

```
{
   "code":100,

   "data": []
}
```

Error Codes and Responses

This section descibe the responce codes implemented by Brokerlink in request processing.

Error Response

STATUS 200

```
{
      "code":100,
      "message": "error descriptions",
      "errors": [
            "field":"field",
            "message":"error message"
      ]
}
```

STATUS (OTHER THAN 200)

```
{
      "message": "error descriptions",
}
```

Error	Description
100	Request processed successfully
101	Internal server error,it indicates undhandled exception has occured
102	Validation Error (check message for description)
103	Email already exists.
104	Invalid Phone number
105	Identity Number already exists.
106	Custodian id provided is invalid
107	Bond id provided is invalid
108	Security id provided is invalid
109	Customer ID. is missing
110	Un Authenticated request.
111	Invalid Client Credentials
112	Invalid User Credentials
113	Signature is missing
114	Not Authorized
115	Insufficiency Balance
116	Customer do not have enough shares
117	OTP Expired
118	Wrong OTP

APPLICATION PROGRAMMING INTERFACE DOCUMENT