Etrade Alerts API

Our API Provider is Overloaded and there is still uncertainty whether it maps all available Etrade API functionality.
We should centralize common function into a Parent Class these API classes can inherit or provide it to them through composition
We will refactor pieces out into their own API Layer.
Most of this functionality is in this class EtradeAlertsClient
We should refactor it to EtradeApiClientAlertsAPI
It should meet all the contract obligations as provided below.
Things to note
  - Request Object must be DTO and Model objects NOT Maps
  - Response Objects must be DTO and Model Object NOT Maps.
  - All Fields expected whether optional or not should be implemented.
  - Implement Database Layer to meet all Model Requirements
  - Implement Repository Layer to meet all model requirements.
  - Implement Service Layer

Alerts API

Overview

Interface for all of the Alert-related APIs

List Alerts link

Description

This API provides a list of alerts.

HTTP Method: GET

Live URL

```
https://api.etrade.com/v1/user/alerts
```

Sandbox URL

```
https://apisb.etrade.com/v1/user/alerts
```

Request

Property	Type	Required?	Description	Allowable Values
count	query	no	The alert count. By default it returns 25. Max values that can be returned: 300.	
category	query	no	The alert category. By default it will return STOCK and ACCOUNT.	STOCK, ACCOUNT
status	query	no	The alert status. By default it will return READ and UNREAD.	READ, UNREAD, DELETED
direction	query	no	Sorting is done based on the createDate	ASC, DESC

search   query   no   The alert search. Search is done based on the subject.

Response

Status Code	Reason	Response Model	Error Code
200	Successful Operation.	AlertsResponse	
404	There are currently no alerts in your inbox.		53
500	Service unrecoverable error.		25
500	Service SQL fetch error.		36
500	Alert service is not available, try after sometime.		300

500	Service no memory.	27
500	Alerts exceeded maximum allowed alerts.	160
500	Service failure, Please try again after some time.	163

List Alert Details [link](#)

Description

This API provides details for an alert.

HTTP Method: GET

Live URL

content_copy

```
https://api.etrade.com/v1/user/alerts/{id}
```

Sandbox URL

```
https://apisb.etrade.com/v1/user/alerts/{id}
```

Request

Property	Type	Required?	Description	Allowable Values
id	path	yes	The alert ID value. Alert id whose details are needed	
htmlTags	query	no	The HTML tags on the alert. By default it is false. If set to true, it returns the alert details msgText with html tags.	

Response

Status Code	Reason	Response Model	Error Code
200	Successful Operation.	AlertDetailsResponse	
400	Incorrect symbol.		464

400	Alert Id should be greater than 0.	499
400	Specified Type code does not exist for Index symbols.	700
404	There are currently no alerts in your inbox.	53
500	Requested alert does not exist.	11
500	Alert service is not available, try after sometime.	300
500	Service unrecoverable error.	25

500	Service SQL fetch error.	36
500	Service no memory.	27
500	Alerts exceeded maximum allowed alerts.	160
500	Service failure, Please try again after some time.	163

Delete Alert

Description

This API deletes a list of alerts.

HTTP Method: DELETE

Live URL

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https://api.etrade.com/v1/user/alerts/{alert_id_list}

Sandbox URL

content_copy

https://apisb.etrade.com/v1/user/alerts/{alert_id_list}

Request

Property	Type	Required?	Description	Allowable Values
id	path	yes	Comma separated alertId list	

Response

Status Code	Reason	Response Model	Error Code
200	Successful Operation.	DeleteAlertsResponse	

400	Incorrect symbol.	464
400	Alert Id should be greater than 0.	499
404	There are currently no alerts in your inbox.	53
500	Requested alert does not exist.	11
500	Alert service is not available, try after sometime.	300
500	Service unrecoverable error.	25

| 500 | Service SQL fetch error. | 36 |

| 500 | Service no memory. | 27 |

| 500 | Alerts exceeded maximum allowed alerts. | 160 |

| 500 | Service failure, Please try again after some time. | 163 |

Alert link

Property	Type	Description	Possible Values

Property	Type	Description	Possible Values
id	integer (int64)	The numeric alert ID	
createTime	integer (int64)	The date and time the alert was issued, in Epoch time	
subject	string	The subject of the alert	
status	string	The current status of the alert	UNREAD, READ, DELETED, UNDELETED

AlertDetailsResponse link

Property	Type	Description	Possible Values
id	integer (int64)	The numeric alert ID	
createTime	integer (int64)	The date and time the alert was issued, in Epoch time	
subject	string	The subject of the alert	
msgText	string	The text of the alert message	

readTime	integer (int64)	The time the alert was read	
deleteTime	integer (int64)	The time the alert was deleted	
symbol	string	The market symbol for the instrument related to this alert, if any; for example, GOOG. It is set only in case of Stock alerts.	
next	string	Contains url for next alert	
prev	string	Contains url for previous alert	

AlertsResponse link

Property	Type	Description	Possible Values
totalAlerts	integer (int64)	The total number of alerts for the user including READ, UNREAD and DELETED	
alerts	array[Alert]	The array of alert responses	

DeleteAlertsResponse link

Property	Type	Description	Possible Values
result	string	The result status of the alert	SUCCESS, ERROR
failedAlerts	FailedAlerts	The failed alerts response	

FailedAlerts link

Property	Type	Description	Possible Values
alertId	array[integer]	The array of failed alert IDs	

Example

List Alerts Request URL

content_copy

```
https://api.etrade.com/v1/user/alerts
```

Response

content_copy

```
<?xml version="1.0" encoding="UTF-8"?>
<AlertsResponse>
    <totalAlerts>148</totalAlerts>
    <Alert>
        <id>6774</id>
        <createTime>1529426402</createTime>
        <subject>Transfer failed-Insufficient Funds</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6773</id>
        <createTime>1529416825</createTime>
        <subject>AAPL down by at least 2.00%</subject>
```

```xml
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6772</id>
        <createTime>1529393902</createTime>
        <subject>External Account Added</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6771</id>
        <createTime>1529392976</createTime>
        <subject>External Account Added</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6770</id>
        <createTime>1529392374</createTime>
        <subject>External Account Added</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6767</id>
        <createTime>1529352321</createTime>
        <subject>Buy 4 AAPL Expired</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6769</id>
        <createTime>1529352321</createTime>
        <subject>Buy 4 AAPL Expired</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6768</id>
        <createTime>1529352321</createTime>
        <subject>Buy 4 AAPL Expired</subject>
        <status>UNREAD</status>
    </Alert>
    <Alert>
        <id>6750</id>
        <createTime>1528857024</createTime>
        <subject>Your Core Portfolios Rebalanced</subject>
        <status>UNREAD</status>
    </Alert>
</AlertsResponse>
```

Read Alert Request URL

content_copy
```
https://api.etrade.com/v1/user/alerts/6773
```

Response

content_copy

```xml
<?xml version="1.0" encoding="UTF-8"?>
<AlertDetailsResponse>
    <id>6773</id>
    <createTime>1529416825</createTime>
    <subject>AAPL down by at least 2.00%</subject>
    <symbol>AAPL</symbol>
    <msgText>APPLE INC COM (AAPL) stock has met your target percentage decrease of
2.00%. The stock is currently trading at $184.96.
""
""
""
""
""
APPLE INC COMnbsp;AAPL Stock
""
""
""
""
""
""
""
""
LastPrice184.96Bid (size)184.92 (x600)
""
Today'sChange -3.78 (-2.00%)Ask (size)184.93 (x100)</msgText>
    <readTime>0</readTime>
    <deleteTime>0</deleteTime>
    <next>https://api.etrade.com/v1/user/alerts/6772</next>
    <prev>https://api.etrade.com/v1/user/alerts/6774</prev>
</AlertDetailsResponse>
```

Delete Alert Request URL

content_copy

```
https://api.etrade.com/v1/user/alerts/6772,6774
```

Response

content_copy

```xml
<?xml version="1.0" encoding="UTF-8"?>
<AlertsResponse>
    <result>Success</result>
</AlertsResponse>
```