



OMT WebService

[I N T E R F A C E S P E C I F I C A T I O N]

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[OMNIMARKETTIDE]

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OMT-WebService User Manual

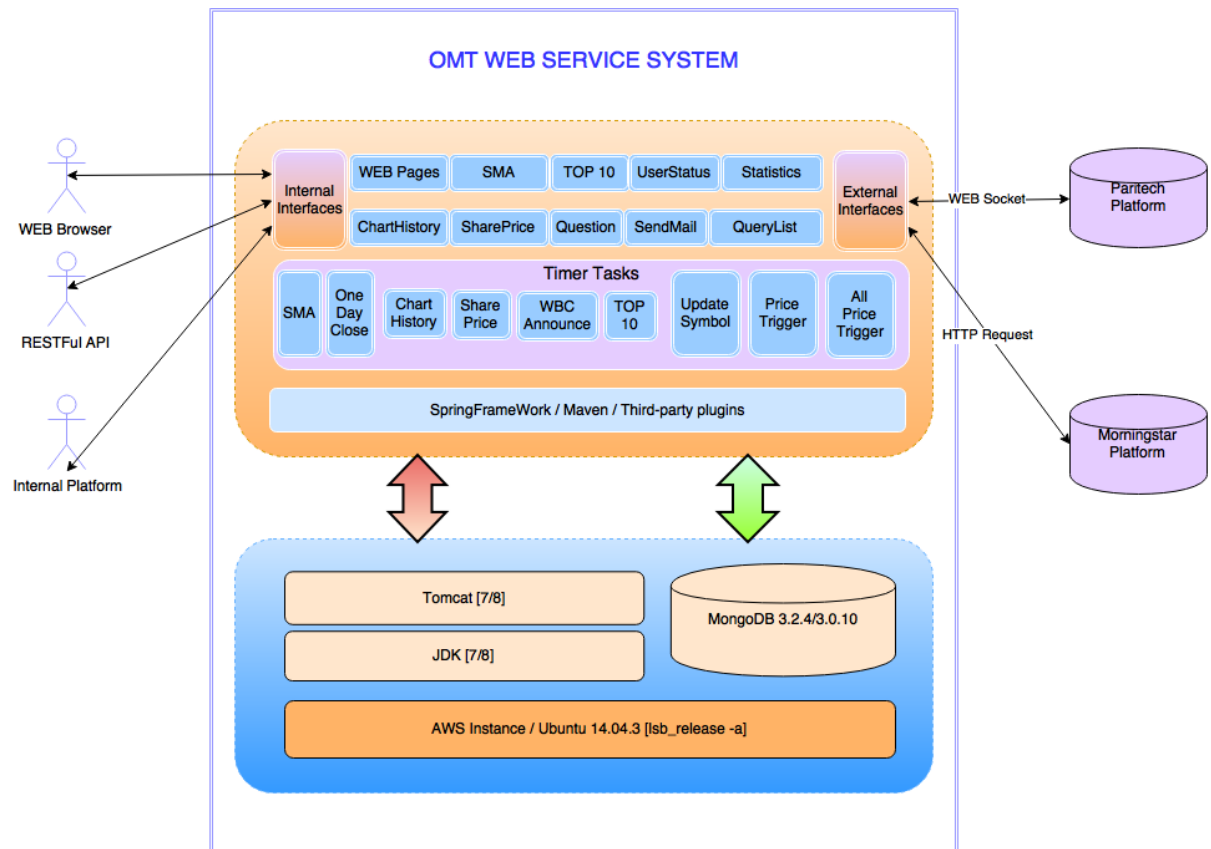
1. Summary

This document can be used for querying for interface abilities and Web-UI features.

Including:

- System Diagram
- Web-UI Features
- External Interfaces (postman)
- Internal Interfaces
- Testing load Balance method

2. System diagram

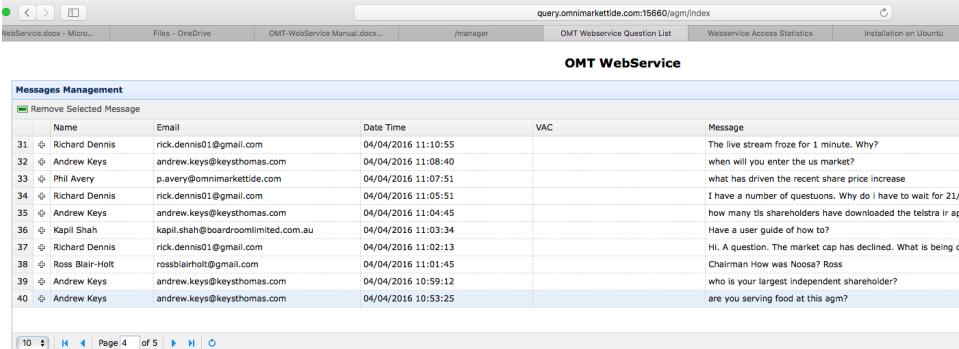


- Two Data Sources from third-party platforms: Paritech Via WebSocket Connection and Morningstar Via HttpRequest

- Three Clients outside: WEB Browser, RESTful API for mobiles, HTTP External interfaces like trigger for Price Change
- WEB SERVICE running on AWS instance of UBUNTU 14.04.3
- System Running Environment including: Tomcat, JRE, MongoDB
- Based on Maven use a series of plugins like SpringFrameWork, JSON, WebSocket Client, Log4j
- Modules including: Chart History, Share Price, Question, Send Mail, Top 10, Set User status, SMA, Statistics.
- System including 8 timer tasks currently:
 - Share Price: running on a specific time interval (Configurable parameter) get data from MS
 - Chart History: every day morning clear cache and get new history data(5AM)
 - One Day close: every day morning get only last day close price for all (6AM)
 - WBC Announce: get WBC announcement running on a specific time interval(every 2 hours)
 - TOP 10: get top 5 gains and 5 declines running on a specific time interval (every 20 mins)
 - Update Symbol: every day night (8PM) update all symbol list from FTP server of MS
 - Price Trigger: send price trigger to another service url (configurable parameter)
 - All Price Trigger: send all price fields trigger to another endpoint (configurable parameter)

3. Web Pages

(1). Question List: <http://query.omnimarkettide.com:15660/agm/index>



The screenshot shows a web browser window with the address bar displaying `query.omnimarkettide.com:15660/agm/index`. The page title is "OMT WebService". Below the title, there is a "Messages Management" section with a "Remove Selected Message" button. A table lists messages with columns for Name, Email, Date Time, VAC, and Message. The table contains 10 rows of data, with the last row highlighted in blue. At the bottom of the page, there is a pagination bar showing "Page 4 of 5".

	Name	Email	Date Time	VAC	Message
31	Richard Dennis	rick.dennis01@gmail.com	04/04/2016 11:10:55		The live stream froze for 1 minute. Why?
32	Andrew Keys	andrew.keys@keystomas.com	04/04/2016 11:08:40		when will you enter the us market?
33	Phil Avery	p.avery@omnimarkettide.com	04/04/2016 11:07:51		what has driven the recent share price increase
34	Richard Dennis	rick.dennis01@gmail.com	04/04/2016 11:05:51		I have a number of questions. Why do I have to wait for 21/2
35	Andrew Keys	andrew.keys@keystomas.com	04/04/2016 11:04:45		how many tis shareholders have downloaded the telstra ir api
36	Kapil Shah	kapil.shah@boardroomlimited.com.au	04/04/2016 11:03:34		Have a user guide of how to?
37	Richard Dennis	rick.dennis01@gmail.com	04/04/2016 11:02:13		Hi. A question. The market cap has declined. What is being dr
38	Ross Blair-Holt	rossblairholt@gmail.com	04/04/2016 11:01:45		Chairman How was Noosa? Ross
39	Andrew Keys	andrew.keys@keystomas.com	04/04/2016 10:59:12		who is your largest independent shareholder?
40	Andrew Keys	andrew.keys@keystomas.com	04/04/2016 10:53:25		are you serving food at this agm?

(2). Approved List: <http://query.omnimarkettide.com:15660/agm/approved>

Agm Approved Question List					
Approved Questions Management					
Remove Selected Message					
	Name	Email	Date Time	VAC	Message
1	Uuuu Uuuu	philip.ravery@gmail.com	26/05/2016 14:43:11		computershare have just released a competitive product?
2	Bryan Granzien	bgranzien@tataaustralia.com	26/05/2016 14:38:35		Can non shareholders ask questions
3	Uuuu Uuuu	philip.ravery@gmail.com	26/05/2016 14:38:06		like the news pulse, but will it have any enhancements
4	Tallai Zhi	tallai.zhi@gmail.com	26/05/2016 14:35:56		I am sending through a q. can u guys see
5	Uuuu Uuuu	philip.ravery@gmail.com	26/05/2016 14:32:58		where is the Telstra contract?
6	Uuuu Uuuu	philip.ravery@gmail.com	26/05/2016 14:27:31		can you provide revenue forecasts?
7	Ross Blair-Holt	rossblairholt@gmail.com	26/05/2016 14:07:19		All ok at my end Ross
8	Glenn Vassallo	gv@grtlawyers.com	26/05/2016 14:06:27		Did did you get this?
9		reid@gmail.com	25/05/2016 14:06:23		this is a test question on a new account.
10		r@gmail.com	23/05/2016 15:38:27		Sdfasfadsfsgfdsagsgsgdsagsa

(3). Statistics of SharePrice: <http://query.omnimarkettide.com:15660/stat/index>

Access Statistics			
Statistics List			
Date	Company	Type	Count
11/05/2016		All	
171 11/05/2016	WBCPE	SharePrice	399
172 11/05/2016	WBCPD	SharePrice	400
173 11/05/2016	WBCPC	SharePrice	405
174 11/05/2016	WBCBH	SharePrice	405
175 11/05/2016	WBCBA	SharePrice	405
176 11/05/2016	WBC	SharePrice	667
177 11/05/2016	MSE	ChartHistory	19
178 11/05/2016	MSE	SharePrice	6
179 11/05/2016	OMT	ChartHistory	430
180 11/05/2016	OMT	SharePrice	293

(4). Westpac announcements: <http://query.omnimarkettide.com:15660/agm/news>

WestPac ASX announcements		
Download as a CSV file		
Date	Title	Link
1 17 May 2016	Westpac Capital Notes 4 Offer Letter to Westpac TPS holders	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922796
2 17 May 2016	Postcard to be sent to Eligible Securityholders	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922793
3 17 May 2016	Appendix 3B - Interim	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922791
4 17 May 2016	Westpac Capital Notes 4 Investor Presentation	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922789
5 17 May 2016	Westpac Capital Notes 4 Offer Announcement	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922787
6 17 May 2016	Westpac Capital Notes 4 Prospectus	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922786
7 16 May 2016	Westpac Self-Funding Instalments over securities in WBC	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922747
8 16 May 2016	Appendix 3B	http://ir.iguana2.com/westpac/news-item?S=WBC&E=ASX&N=922679
9 16 May 2016	RWH: Change in substantial holding from WBC	http://ir.iguana2.com/westpac/news-item?S=RWH&E=ASX&N=922670
10 13 May 2016	RWH: Becoming a substantial holder from WBC	http://ir.iguana2.com/westpac/news-item?S=RWH&E=ASX&N=922452

(5). System Configuration: <http://query.omnimarkettide.com:15660/cfg/index>

If you want to login and have a look ask username/password from admin

System Configuration		
System Configuration [Carefully to edit the values]		
Item	Applied Value	Default Value
1 Mail Switcher	1	1
2 Mail Username	admin@omnimarkettide.com	admin@omnimarkettide.com
3 Mail Password	MSqH05bXh5656wqPbR4A	MSqH05bXh5656wqPbR4A
4 Mail From	virtualagm@omnimarkettide.com	virtualagm@omnimarkettide.com
5 Mail Title	Omni Market Tide Ltd	Omni Market Tide Ltd
6 Mail Subject	OMT 2016 AGM	OMT 2016 AGM
7 Mail Content	Thanks for lodging your vote via OmniLOOP for Omni Market Tide Ltd's 2016 Annual General Meeting. Your vote has been recorded.	Thanks for lodging your vote via OmniLOOP for Omni Market Tide Ltd's 2016 Annual General Meeting. Your vote has been recorded.
8 Mail Tag	OMTVEC	OMTVEC
9 Mail Host	smtp.mandrillapp.com	smtp.mandrillapp.com
10 Mail Port	587	587

(6). SMA history list: <http://localhost:9090/omtwebservice/stat/smahistory>

SMA History			
SMA History List			
Code		Type	Value
		All	
1	AUC	1Y	{ "open": 0.04390909090909087, "low": 0.04314685314685311, "high": 0.044734265734265706, "close": 0.04404895104895103, "volume": 0.04756989247311826, "low": 0.04660215053763441, "high": 0.04866666666666666, "close": 0.04777419354838709, "volume": 0.05188888888888889, "low": 0.05044444444444445, "high": 0.05324074074074074, "close": 0.05196296296296295, "volume": 0.05400000000000002, "low": 0.05311111111111114, "high": 0.05483333333333336, "close": 0.05405555555555557, "volume": 0.05440000000000004, "low": 0.0536, "high": 0.0548, "close": 0.0538, "volume": 101173.8 }
2	AUC	3M	{ "open": 0.02113253012048188, "low": 0.020542168674698727, "high": 0.021618473895582285, "close": 0.0209357429718875, "volume": 0.02079032580645164, "low": 0.02029837096774194, "high": 0.02116129032258063, "close": 0.020588709677419346, "volume": 0.020131147540983607, "low": 0.01970491803278689, "high": 0.02045901639342615, "close": 0.019983606557377052, "volume": 0.020157894736842107, "low": 0.01978947368421053, "high": 0.020657894736842108, "close": 0.020157894736842107, "volume": 0.02045901639342615 }
3	AUC	3M	
4	AUC	1M	
5	AUC	1W	
6	DDT	1Y	
7	DDT	3M	
8	DDT	6M	
9	DDT	1W	
10	DDT	1W	

(7). SMA changing today: <http://localhost:9090/omtwebservice/stat/smadiff>

SMA Changing List			
Code	Type	Value	
	All		
1	AUC	1Y	"open":0.15926102882624626,"low":0.16207455429497572,"high":0.1563232765358762,"close":0.1587553579933226,"volume":0.06101510]
2	AUC	6M	"open":0.4520795660036176,"low":0.46146746654360854,"high":0.44189129474149363,"close":0.4501462975467027,"volume":0.08081038]
3	AUC	3M	"open":0.28551034957017836,"low":0.29368575624082227,"high":0.27826086956521734,"close":0.285103349964362,"volume":0.974612314]
4	AUC	1M	"open":0.10288065843621405,"low":0.10460251046025108,"high":0.103095136778115517,"close":0.10382347687564236,"volume":6.9592684]
5	AUC	1W	"open":0.0,"low":0.0,"high":0.0,"close":0.0,"volume":0.19766935708651845]
6	ACL	1Y	"open":0.2441108453899151,"low":0.244656235182551034,"high":0.24148980634375186,"close":0.24429202292586744,"volume":0.130424]
7	ACL	6M	"open":0.309995616896013,"low":0.31139419674451556,"high":0.30621021847583045,"close":0.31140657802659876,"volume":0.160020564]
8	ACL	3M	"open":0.10256410256410249,"low":0.8771929824561401,"high":1.0126582278481007,"close":0.8665511265164643,"volume":0.244785817]
9	ACL	1M	"open":0.7813273273273273,"low":0.8464516130737373,"high":0.7603937639376393,"close":0.8000000000000001,"volume":0.181373737]

(8). All pages in one: <http://query.omnimarkettide.com:15660/>
please ask administrator for access username/password.

[Files - OneDrive](#)
[OMT-WebService User Manual.docx...](#)
[OMT Webservice Page List](#)
[Agm Question List](#)
[Online User List](#)
[System Configuration](#)
[OMTLogin page](#)

[Agm Approved List](#)
[Agm Question List](#)
[Agm Online List](#)
[Data Access History](#)
[Westpac News List](#)
[System Configs](#)
[System Help](#)
<http://localhost:9090/omtwebservice/agm/index>

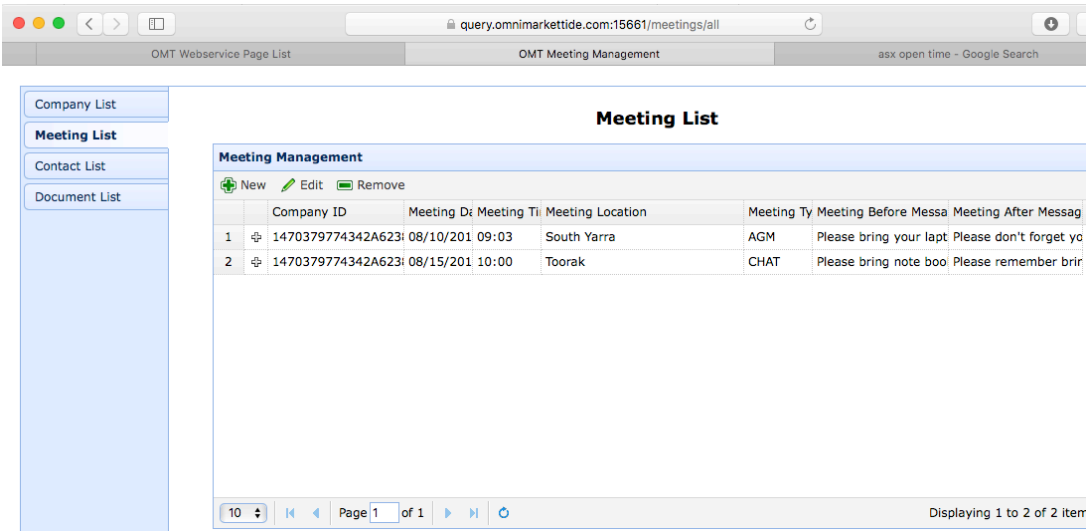
Agm Approved Question List

Approved Questions Management

Remove Selected Message

	<input type="checkbox"/>	Name	Email	Date Time	VAC	Message
1	<input type="checkbox"/>	test1001	t.liu@omnimarkettide.com	20/05/2016 10:22:22	vactest	testnotehow are you doing 20-05
2	<input type="checkbox"/>	test1001	t.liu@omnimarkettide.com	20/05/2016 10:22:22	vactest	testnotehow are you doing 20-05
3	<input type="checkbox"/>	Scott Standen	scottstanden@bigpond.com	04/04/2016 11:30:45		Oh, 3 minutes between questions, not 2
4	<input type="checkbox"/>	Andrew Keys	andrew.keys@keysthomas.com	04/04/2016 11:29:37		how much revenue to expect to generate in Cy17?
5	<input type="checkbox"/>	Andrew Keys	andrew.keys@keysthomas.com	04/04/2016 11:15:14		have you considered appointing an independent chairman?
6	<input type="checkbox"/>	Richard Dennis	rick.dennis01@gmail.com	04/04/2016 11:05:51		I have a number of questions. Why do i have to wait for 21/2 minutes? Rick Dennis

(9). Meeting management: Including company, meeting, contact, document management:



4. Web Service Interfaces

For HTTP Access: <http://query.omnimarkettide.com:15660>

For HTTPS Access: <https://query.omnimarkettide.com:156601>

(1). Post Get Share Price Query

REST URL	http://query.omnimarkettide.com:15660/wsssocket/wssrequestcode
Method	Post
Request body (Json Array)	[{"code":"OMT","timezone":"Australia/Victoria"}]
Content-Type	application/json
Result (Json Array)	[{ "Timestamp": "12/04/2016 10:44:39", "Currency": "AUD", "Index": null, "Code": "OMT", "Market": "ASX", "BestBid": 0.031, "BestAsk": 0.035, "BidCount": 1, "BidQuantity": 50000, "BidUndisclosed": false, "AskCount": 1, "AskQuantity": 39462, "AskUndisclosed": false, "High": 0.035, "Low": 0.035, }

	<pre> "Open": 0.035, "Close": 0.035, "Settlement": null, "Last": 0.035, "NumberOfTrades": 2, "Volume": 13538, "Trend": "None", "Clazz": null, "TradingState": "Normal", "StrikePrice": null, "CallOrPut": null, "ContractSize": null, "SubscriptionData": "All", "AuctionPrice": 0.035, "AuctionQuantity": 45033, "AuctionRemainder": 13538, "VWAP": 0.035, "OpenInterest": null, "ShareIssue": null, "ValueChanged": 0, "PercentChange": 0, "Name": "OMNIMARKET FPO" }] </pre>
--	--

(2). Post Get Chart History

REST URL	http://query.omnimarkettide.com:15660/wsocket/wssreqhistory
Method	Post
Request body (Json Object)	{"code":"sun","count":18}
Result (Json Array)	<pre> [{ "Low": 11.76, "Open": 11.87, "Close": 11.8, "Date": "2016-03-15Z", "Volume": 3684096, "High": 11.91 }, ...] </pre>

(3). Agm Post Create Question

Before starting create a question, you should follow the steps:

- Get a token via: POST <http://query.omnimarkettide.com:15660/rest/> with headers:
 - H "X-Username: {device_id}"
 - H "X-Password: omt@mel123"
- On each following post request post together with the returned token like:


```
8LwW+4p57oLgIjJmWd0jIzZFUjy+ku5LA4jB+KdKbzA=
```
- Post to <http://query.omnimarkettide.com:15660/rest/creatusermsg> with
 - H "X-Auth-Token: 8LwW+4p57oLgIjJmWd0jIzZFUjy+ku5LA4jB+KdKbzA="

- Any token error will result in an error in HTTPResponse Header: X-Token-Valid: true|false

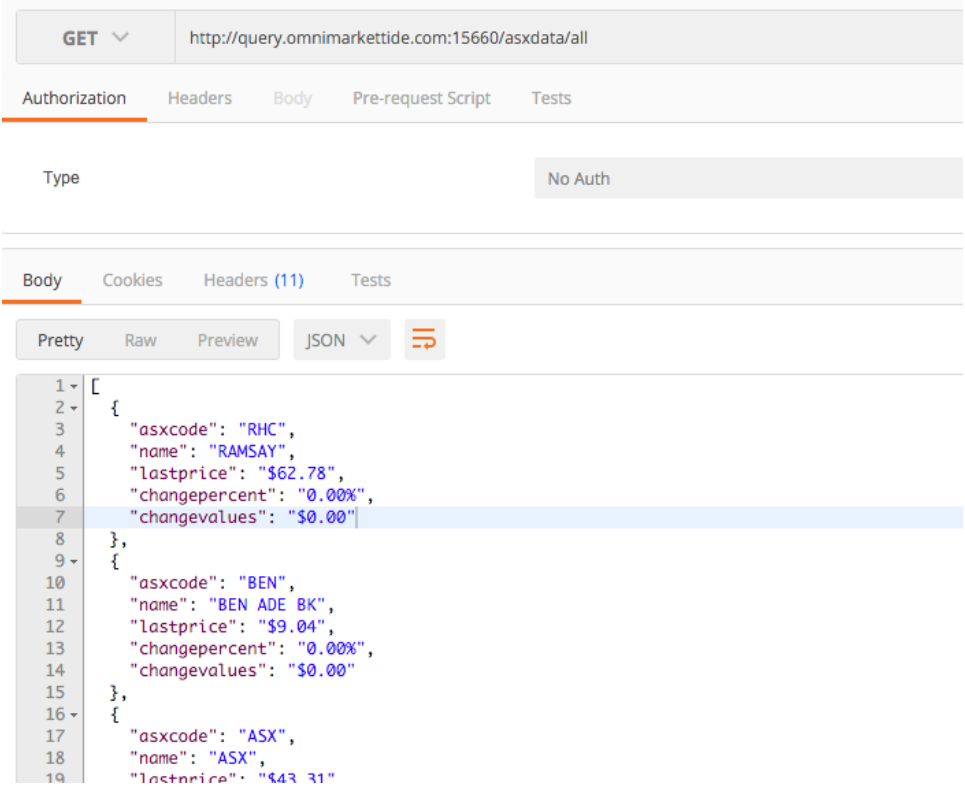
REST URL	http://query.omnimarkettide.com:15660/rest/creatusermsg
Method	Post
Request Header	X-Auth-Token:lEdcPbsfvT4NkwxEgw8dM6gcCt3QVELX3Z/VjzrjKbU= Content-Type:application/json Accept-Code:OMT
Request body	<code>{"name":"test1001","email":"t.liu@omnimarkettide.com","notes":"testnotehow are you doing22222.","datetime":"29/03/2016 10:22:22"}</code>
Result	<pre>{ "id": "570c4cb0e4b0af3f21d325d1", "name": "test1001", "email": "t.liu@omnimarkettide.com", "notes": "testnotehow are you doing22222.", "datetime": "29/03/2016 10:22:22", "status": 1 }</pre>

(4). Agm Get Question History

REST URL	http://query.omnimarkettide.com:15660/agm/getuserhistmsg
Method	Post
Request Header	Accept-Code:OMT
Request body	rick.dennis01@gmail.com , r@gmail.com
Content-type	text
Result (Json Array)	<pre>[{ "email": "r@gmail.com", "messageList": [{ "message": "This is long question that has lots of characters and more banteriusmatter in the content. This should show up in a single or multiple lines. Letssee how it goes. ", "status": 1, "datetime": "04/04/2016 10:45:00" }, { "message": "Robin's test message", "status": 1, "datetime": "11/04/2016 11:34:06" }] }, { "email": "r@gmail.com", "messageList": [{ "message": "This is long question that has lots of characters and more banteriusmatter in the content. This should show up in a single or multiple lines. Letssee how it goes. ", "status": 1, "datetime": "04/04/2016 10:45:00" }] }]</pre>

	<pre> { "message": "Sda", "status": 1, "datetime": "11/04/2016 11:16:50" }, { "message": "Robin's test message", "status": 1, "datetime": "11/04/2016 11:34:06" }] </pre>
--	--

(5). Get Top 10 for gains & declines

URL	http://query.omnimarkettide.com:15660/asxdata/all
Method	Get
Request body	Nil
Result	 <pre> [{ "asxcode": "RHC", "name": "RAMSAY", "lastprice": "\$62.78", "changepercent": "0.00%", "changevalues": "\$0.00" }, { "asxcode": "BEN", "name": "BEN ADE BK", "lastprice": "\$9.04", "changepercent": "0.00%", "changevalues": "\$0.00" }, { "asxcode": "ASX", "name": "ASX", "lastprice": "\$43.31" }] </pre>

(6). Get Top 5 of gains

URL	http://query.omnimarkettide.com:15660/asxdata/gains
Method	Get
Request body	Nil
Result	

	<div><div>GET</div><div>http://query.omnimarkettide.com:15660/asxdata/gains</div></div> <div>AuthorizationHeadersBodyPre-request ScriptTests</div> <div>TypeNo Auth</div> <div>BodyCookiesHeaders (11)Tests</div> <div>PrettyRawPreviewJSON</div> <div><pre>1 [2 { 3 "asxcode": "RHC", 4 "name": "RAMSAY", 5 "lastprice": "\$62.78", 6 "changepercent": "0.00%", 7 "changevalues": "\$0.00" 8 }, 9 { 10 "asxcode": "BEN", 11 "name": "BEN ADE BK", 12 "lastprice": "\$62.78", 13 "changepercent": "0.00%", 14 "changevalues": "\$0.00" 15 } 16]</pre></div>
--	--

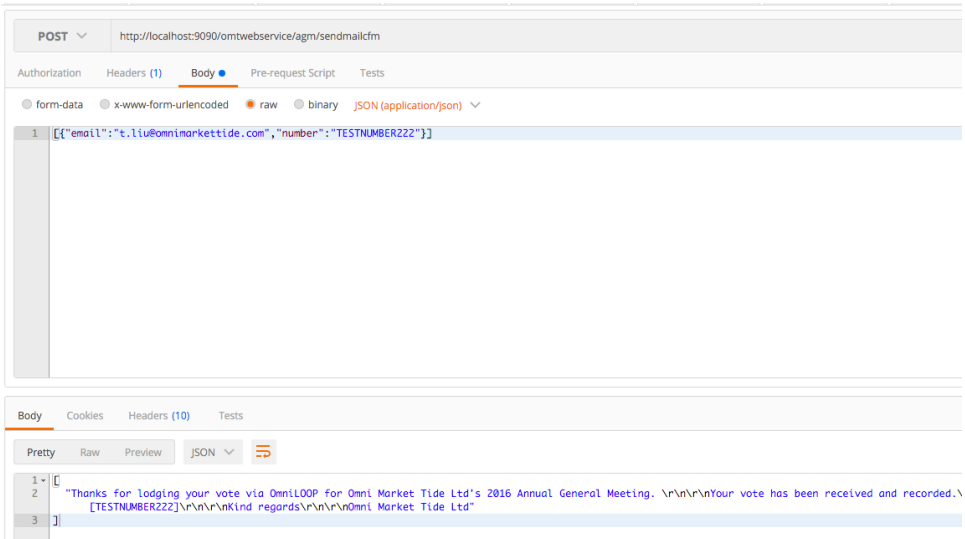
(7). Get Top 5 of declines

URL	http://query.omnimarkettide.com:15660/asxdata/declines
Method	Get
Request body	Nil
Result	<div><div>GET</div><div>http://query.omnimarkettide.com:15660/asxdata/declines</div></div> <div>AuthorizationHeadersBodyPre-request ScriptTests</div> <div>TypeNo Auth</div> <div>BodyCookiesHeaders (11)Tests</div> <div>PrettyRawPreviewJSON</div> <div><pre>1 [2 { 3 "asxcode": "RHC", 4 "name": "RAMSAY", 5 "lastprice": "\$62.78", 6 "changepercent": "0.00%", 7 "changevalues": "\$0.00" 8 }, 9 { 10 "asxcode": "BEN", 11 "name": "BEN ADE BK", 12 "lastprice": "\$62.78", 13 "changepercent": "0.00%", 14 "changevalues": "\$0.00" 15 } 16]</pre></div>

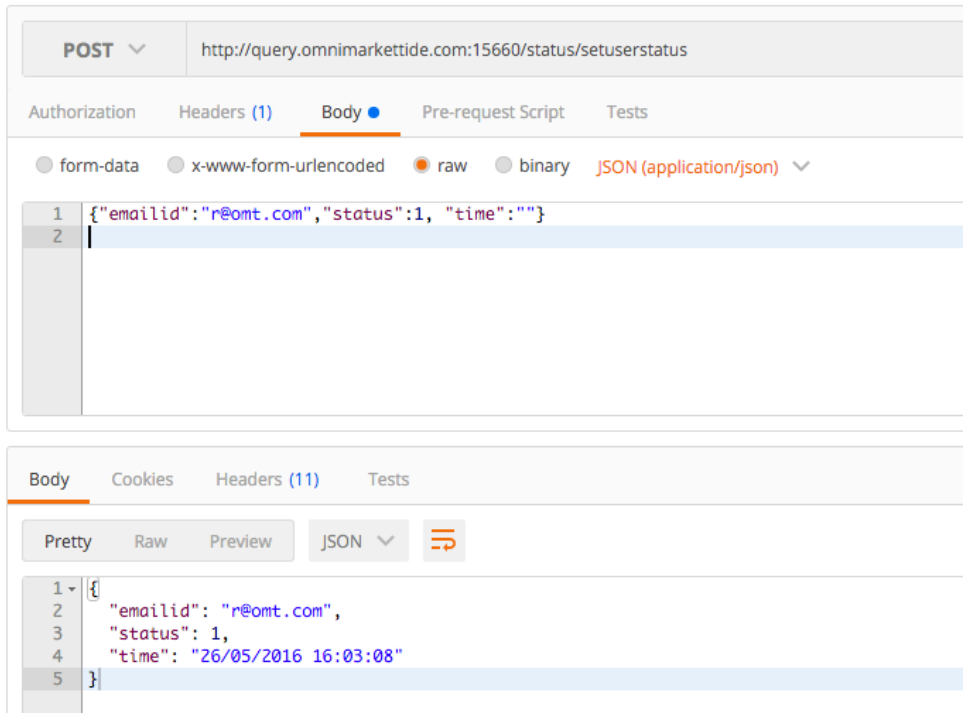
(8). Post Sending Emails

URL	http://query.omnimarkettide.com:15660/agm/sendmailcfm
Method	Post
Request body (Json Array)	[{"email":"t.liu@omnimarkettide.com","number":"TESTNUMBER123"}]

**Result
(Json Array)**

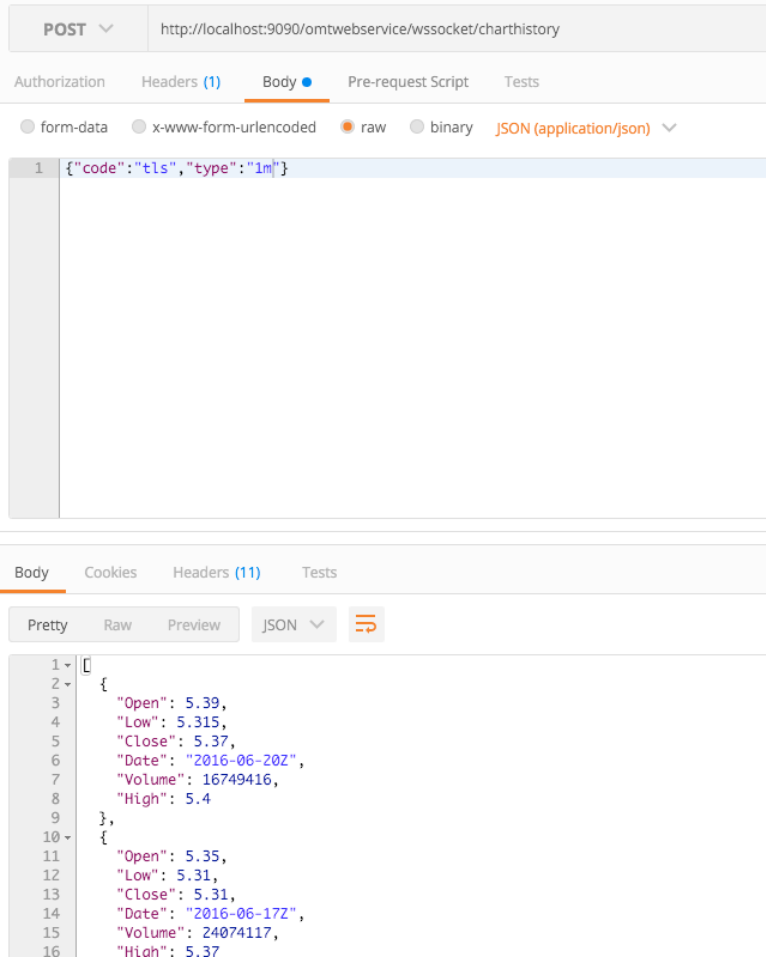


(9). Set User online status

URL	http://query.omnimarkettide.com:15660/status/setuserstatus
Method	Post
Request Header	Accept-Code: OMT
Request body (Json Array)	<code>{"emailid": "r@omt.com", "status": 1, "time": ""}</code>
Result (Json Array)	

(10). Get Single Chart History by Type

URL	http://query.omnimarkettide.com:15660/wssocket/charthistory
Method	Post
Request body	<code>{"code": "TLS", "type": "1M"}</code>

<p>(Json Array)</p> <p>Count: 1W-1week 1M-1Month 3M-3Month 6M-6Month 1Y-1Year</p>	
<p>Result (Json Array)</p>	 <p>The screenshot shows a REST client interface. The top section displays a POST request to the URL <code>http://localhost:9090/omtwebsevice/wssocket/charthistory</code>. The request body is a JSON object: <code>{"code": "tls", "type": "1m"}</code>. The bottom section shows the response, which is a JSON array of two objects. The first object represents data for the date "2016-06-20Z" and the second for "2016-06-17Z".</p> <pre>[{ "Open": 5.39, "Low": 5.315, "Close": 5.37, "Date": "2016-06-20Z", "Volume": 16749416, "High": 5.4 }, { "Open": 5.35, "Low": 5.31, "Close": 5.31, "Date": "2016-06-17Z", "Volume": 24074117, "High": 5.37 }]</pre>

(11). *Get Share Price by different markets*

URL	http://query.omnimarkettide.com:15660/difmarket/wssrequestcode
Method	Post
Request body (Json Array)	<code>{"code": "OMT", "market": "ASX", "count": 260}</code>

**Result
(Json Array)**

POST

http://localhost:9090/omtwebservice/difmarket/wssrequestcode

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1

[{"code": "WBC", "market": "ASX", "timezone": "Australia/Hobart"}]

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

{
 "Code": "WBC",
 "Name": "WESTPAC FPO [WBC]",
 "Timestamp": "21/06/2016 14:18:08",
 "BestBid": 29.63,
 "BestAsk": 29.64,
 "BidCount": 8,
 "BidQuantity": 5974,
 "BidUndisclosed": null,
 "AskCount": 7,
 "AskQuantity": 962,
 "AskUndisclosed": null,
 "High": 29.91,
 "Low": 29.57,
 "Open": 29.71,
}

(12). *Get Single Chart History by different markets*

URL	http://query.omnimarkettide.com:15660/difmarket/wssreqhistory
Method	Post
Request body (Json Array)	{"code": "OMT", "market": "ASX", "count": 260}

Result
(Json Array)

POST

http://localhost:9090/omtwebservice/difmarket/wssreqhistory

1

```
{ "code": "WBC", "market": "asx", "count": 3 }
```

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

```
[
  {
    "Open": 28.9,
    "Low": 28.28,
    "Close": 28.4,
    "Date": "2016-06-16Z",
    "Volume": 8390268,
    "High": 29.01
  },
  {
    "Open": 28.68,
    "Low": 28.44,
    "Close": 28.67,
    "Date": "2016-06-17Z",
    "Volume": 5468742,
    "High": 28.785
  }
]
```

(13). *Get Single Chart History by Market and Type*

URL	http://query.omnimarkettide.com:15660/difmarket/charthistory
Method	Post
Request body (Json Array) Count: 1W-1week 1M-1Month 3M- 3Month 6M-6Month 1Y-1Year	<pre>{"code": "tls", "market": "ASX", "type": "1M"}</pre>

**Result
(Json Array)**

POST

http://localhost:9090/omtwebservice/difmarket/charthistory

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1

{ "code": "tls", "market": "ASX", "type": "1m" }

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

[

{

"Open": 5.39,

"Low": 5.315,

"Close": 5.37,

"Date": "2016-06-20",

"Volume": 16749416,

"High": 5.4

},

{

"Open": 5.35,

"Low": 5.31,

"Close": 5.31,

"Date": "2016-06-17",

"Volume": 24874117

}

]

(14). Get SMA History by Type

URL	http://query.omnimarkettide.com:15660/wssocket/sma http://query.omnimarkettide.com:15660/wssocket/smalist
Method	Post
Request body (Json Array) Count: 1W-1week 1M-1Month 3M- 3Month 6M-6Month 1Y-1Year	<pre>{"code": "TLS", "type": "1W"} [{"code": "TLS", "type": "1W"}...]</pre>

Result
(Json Array)

POST

http://query.omnimarkettide.com:15660/wssocket/sma

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1

{ "code": "tls", "type": "1w" }

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

{

2

"open": 5.473999999999999,

3

"low": 5.416,

4

"high": 5.545,

5

"close": 5.5,

6

"volume": 39400346.6

7

}

(15). *Get SMA Changing by Type*

URL	http://query.omnimarkettide.com:15660/wssocket/smadiff http://query.omnimarkettide.com:15660/wssocket/smadifflist
Method	Post
Request body (Json Array) Count: 1W-1week 1M-1Month 3M-3Month 6M-6Month 1Y-1Year	<pre>{"code": "TLS", "type": "1W"} [{"code": "TLS", "type": "1W"}...]</pre>

Result
(Json Array)

POST

http://query.omnimarkettide.com:15660/wssocket/smadiff

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1

{ "code": "tls", "type": "1w" }

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

{

2

"open": 0.8037997807818805,

3

"low": 0.8493353028064976,

4

"high": 0.23444544634806272,

5

"close": 0.40000000000000113,

6

"volume": -15.7545492252091

7

}

(16). *Get Multiple Chart History List*

URL	http://query.omnimarkettide.com:15660/wssocket/chartlist
Method	Post
Request body (Json Array) Type: 1W-1week 1M-1Month 3M-3Month 6M-6Month 1Y-1Year	{ "type": "1M", "codelist": [{ "code": "OMT", "exchange": "ASX" }, { "code": "WBC", "exchange": "ASX" }, { "code": "TLS", "exchange": "ASX" }] }

Result (Json Array)

POST http://query.omnimarkettide.com:15660/wssocket/chartlist

Authorization Headers (1) Body Pre-request Script Tests

form-data x-www-form-urlencoded raw binary JSON (application/json)

```
1 [{"type": "1Y", "odelist": [{"code": "OMT", "exchange": "ASX"}, {"code": "WBC", "exchange": "ASX"}, {"code": "TLS", "exchange": "ASX"}]}
```

Body Cookies Headers (11) Tests

Pretty Raw Preview JSON

```
1 {
2   {
3     "code": "OMT",
4     "exchange": "ASX",
5     "value": [
6       {
7         "Low": 0.08,
8         "Open": 0.09,
9         "Close": 0.083,
10        "Date": "2015-07-30Z",
11        "Volume": 6935130,
12        "High": 0.092
13      },
14      {
15        "Low": 0.083,
16        "Open": 0.085,
17        "Close": 0.083,
18        "Date": "2015-07-31Z",
19        "Volume": 224000,
20        "High": 0.089
21      },
22      {
23        "Low": 0.091
```

(17). *Get All Meeting list*

URL	http://query.omnimarkettide.com:15660/meeting/all
Method	GET
Request body	Nil

Result (Json Array)

GET http://query.omnimarkettide.com:15660/meeting/all

Body Cookies Headers (11) Tests

Pretty Raw Preview JSON

```
[
  {
    "companyID": "1470379774342A623851223",
    "companyName": "Omni Market Tide Ltd.",
    "tickerCode": "OMT",
    "companyLogo": "http://www.omnimarkettide.com",
    "meetings": [
      {
        "meetingID": "1470380678114A1239966990",
        "meetingDate": "08/10/2016",
        "meetingTime": "09:03",
        "meetingLocation": "South Yarra",
        "meetingType": "AGM",
        "meetingBeforeMsg": "Please bring your laptop",
        "meetingAfterMsg": "Please don't forget your laptop",
        "meetingContacts": {
          "name": "Reid",
          "email": "reid@omt.com.au",
          "phone": "0432123321",
          "webur": "http://www.omt.com.au",
          "contactID": "1470379927649A495319795"
        },
        "meetingDetails": {
          "documents": [
            {
              "documentID": "1470379855695A1382752245",
              "documentType": "Doc",
              "documentName": "OmtLight",
              "documentLink": "http://www.google.com/",
              "documentAttributes": [
                {
                  "attributeName": "length",
                  "attributeValue": "1:30"
                },
                {
                  "attributeName": "size",
                  "attributeValue": "2MB"
                }
              ]
            }
          ]
        }
      }
    ]
  }
]
```

EntyResponseData Example:

```
[
  {
    "companyID": "1470379774342A623851223",
    "companyName": "Omni Market Tide Ltd.",
    "tickerCode": "OMT",
    "companyLogo": "http://www.omnimarkettide.com",
    "meetings": [
      {
        "meetingID": "1470380678114A1239966990",
        "meetingDate": "08/10/2016",
        "meetingTime": "09:03",
        "meetingLocation": "South Yarra",
        "meetingType": "AGM",
        "meetingBeforeMsg": "Please bring your laptop",
        "meetingAfterMsg": "Please don't forget your laptop",
        "meetingContacts": {
          "name": "Reid",
          "email": "reid@omt.com.au",
          "phone": "0432123321",
          "webur": "http://www.omt.com.au",
          "contactID": "1470379927649A495319795"
        },
        "meetingDetails": {
          "documents": [
            {
              "documentID": "1470379855695A1382752245",
              "documentType": "Doc",
              "documentName": "OmtLight",
              "documentLink": "http://www.google.com/",
              "documentAttributes": [
                {
                  "attributeName": "length",
                  "attributeValue": "1:30"
                },
                {
                  "attributeName": "size",
                  "attributeValue": "2MB"
                }
              ]
            }
          ]
        }
      }
    ]
  }
]
```



```

"documentName": "OmtLight",
"documentLink": "http://www.google.com/",
"documentAttributes": [
  {
    "attributeName": "length",
    "attributeValue": "1:30"
  },
  {
    "attributeName": "size",
    "attributeValue": "2MB"
  }
]
},
{
  "documentID": "1470379884368A856081389",
  "documentType": "Video",
  "documentName": "Reuquirement",
  "documentLink": "http://www.video.com.au",
  "documentAttributes": [
    {
      "attributeName": "length",
      "attributeValue": "2:30"
    },
    {
      "attributeName": "size",
      "attributeValue": "200MB"
    }
  ]
}
]
}
},
{
  "meetingID": "1470381526834A694560670",
  "meetingDate": "08/15/2016",
  "meetingTime": "10:00",
  "meetingLocation": "Toorak",
  "meetingType": "CHAT",
  "meetingBeforeMsg": "Please bring note book",
  "meetingAfterMsg": "Please remember bring your stuff",
  "meetingContacts": {
    "name": "Tony",
    "email": "tony@omt.com.au",
    "phone": "0455834439489",
    "weburl": "http://www.omt.com.au",
    "contactID": "1470379948403A110078332"
  },
  "meetingDetails": {
    "documents": [
      {
        "documentID": "1470379855695A1382752245",
        "documentType": "Doc",
        "documentName": "OmtLight",
        "documentLink": "http://www.google.com/",
        "documentAttributes": [
          {
            "attributeName": "length",
            "attributeValue": "1:30"
          }
        ]
      }
    ]
  }
}



```

	<pre> }, { "attributeName": "size", "attributeValue": "2MB" }] }] }</pre>
--	--

(18). *Get All Meeting Company List*

URL	http://query.omnimarkettide.com:15660/company/allcompany
Method	GET
Request body	
Result (Json Array)	<div><div>GET  http://localhost:9090/omtwebservice/company/allcompany</div><div><div>Body Cookies Headers (11) Tests</div><div><div>Pretty Raw Preview JSON </div><pre>1 [2 { 3 "companyID": "1470274922405A1684052826", 4 "companyName": "OMNIMARKET FPO [OMT]", 5 "tickerCode": "OMT" 6 }, 7 { 8 "companyID": "1470358214818A1497020445", 9 "companyName": "WESTPAC FPO [WBC]", 10 "tickerCode": "WBC" 11 }, 12 { 13 "companyID": "1470358302074A1516036667", 14 "companyName": "TELSTRA FPO [TLS]", 15 "tickerCode": "TLS" 16 }, 17 { 18 "companyID": "1470620604136A838095337", 19 "companyName": "CARDNO FPO [CDD]", 20 "tickerCode": "CDD" 21 }, 22 { 23 "companyID": "1470636364888A1459755024", 24 "companyName": "ALTERRA FPO [1AG]", 25 "tickerCode": "1AG" 26 } 27]</pre></div></div></div>

(19). *Get the meetings with CompanyID*

URL	http://query.omnimarkettide.com:15660/meeting/query
Method	Post
Request body (Json Array)	<code>[{"1470274922405A1684052826","1470358214818A1497020445"}]</code>
Result (Json Array)	<div><div>POST  http://localhost:9090/omtwebservice/meeting/query</div><div><div>1 <code>[{"1470274922405A1684052826","1470358214818A1497020445"}]</code></div></div><div><div>Body Cookies Headers (11) Tests</div><div><div>Pretty Raw Preview JSON </div><div><div>1 <code>[</code></div><div>2 <code>{</code></div><div>3 <code> "companyID": "1470274922405A1684052826",</code></div><div>4 <code> "companyName": "OMNIMARKET FPO [OMT]",</code></div><div>5 <code> "tickerCode": "OMT",</code></div><div>6 <code> "companyLogo": "http://omnimarkettide.com",</code></div><div>7 <code> "meetings": [</code></div><div>8 <code> {</code></div><div>9 <code> "meetingID": "1470289958830A115672871",</code></div><div>10 <code> "meetingDate": "2016-08-09",</code></div><div>11 <code> "meetingTime": "09:30",</code></div><div>12 <code> "meetingLocation": "South Yarra",</code></div><div>13 <code> "meetingType": "AGM",</code></div><div>14 <code> "meetingBeforeMsg": "Please bring your laptop.",</code></div><div>15 <code> "meetingAfterMsg": "Please remember take your laptop.",</code></div><div>16 <code> "meetingContacts": {</code></div><div>17 <code> "name": "Reid",</code></div><div>18 <code> "email": "Reid@omnimarkettide.com.au",</code></div><div>19 <code> "phone": "0432221234",</code></div><div>20 <code> "weburl": "http://localhost:9090/omtwebservice/contact/index",</code></div><div>21 <code> "contactID": "1470275838009A1699159276"</code></div><div>22 <code> },</code></div><div>23 <code> "meetingDetails": {</code></div><div>24 <code> "documents": [</code></div><div>25 <code> {</code></div><div>26 <code> "documentID": "1470275935757A1062751762"</code></div></div></div></div></div>

(20). *Validate the password of the meetings*

URL	http://query.omnimarkettide.com:15660/meeting/validatepwd
Method	Post
Request body (Json Array)	<code>{"meetingID":"1470708040252","password":"123","valid":false}</code>

Result
(Json Array)

POST

http://localhost:9090/omtwebservice/meeting/validatepwd

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

1

{ "meetingID": "1470708040252", "password": "123", "valid": "false" }

Body

Cookies

Headers (11)

Tests

Pretty

Raw

Preview

JSON

1

{

2

"meetingID": "1470708040252",

3

"password": "123",

4

"valid": true

5

}

(21). *Get one day close price*

URL	http://query.omnimarkettide.com:15660/wssocket/allclose
Method	GET
Request body (Json Array)	

Result (Json Array)

GET <http://query.omnimarkettide.com:15660/wssocket/allclose>

Authorization Headers Body Pre-request Script Tests

Type No Auth

Body Cookies Headers (11) Tests

Pretty Raw Preview JSON

```
1 {
2   {
3     "code": "1AG",
4     "exchange": "ASX",
5     "close": 0.047
6   },
7   {
8     "code": "1AL",
9     "exchange": "ASX",
10    "close": 0.9
11  },
12  {
13    "code": "1PG",
14    "exchange": "ASX",
15    "close": 0.385
16  },
17  {
18    "code": "1ST",
19    "exchange": "ASX",
20    "close": 0.05
21  },
22 }
```

5. Running mongo in the security mode

(1). Add users first:

with default roles:[dbOwner,]

```
db.createUser(
  {
    user:"admin",
    pwd:"admin",
    roles:[{role:"dbOwner",db:"testdb"}]
  }
)
```

(2). Restart mongo

```
db.shutdownServer()
```

-- [need close all connections to mongo, like web application , cmd lines, and robomongo client] , otherwise you cannot start mongo with the same port:27017

(3). sudo mongod --auth

```
>use testdb
```

```
>db.auth("admin","admin")
```

The above is mongodb command lines after login

(4). Programmly connect to auth mongodb

```
Mongo client = new MongoClient("localhost");
new MongoTemplate(client, "testdb", null);
// mongod --auth [ for security reason ]
UserCredentials credential=new UserCredentials("admin", "admin");
MongoTemplate auth=new MongoTemplate(client, "testdb",
credential);
```

6. Tomcat SSL configuration

(1). Get file from

[:smb://omtsvr/Development/Misc/SSLCertificate/omnimarkettide.com/Tomcat](smb://omtsvr/Development/Misc/SSLCertificate/omnimarkettide.com/Tomcat)

(2). Reference to

<https://au.godaddy.com/help/tomcat-generate-csrs-and-install-certificates-5239>

```
$> openssl pkcs12 -export -in omt.crt -inkey
certificate_key.key -out mycert.p12 -name tomcat -CAfile
intermediate.crt -caname root -chain
```

```
$> keytool -importkeystore -srckeystore mycert.p12 -
destkeystore tomcat.keystore
```

```
$> keytool -list -keystore tomcat.keystore
```

Enter keystore password:

Keystore type: JKS

Keystore provider: SUN

Your keystore contains 1 entry

tomcat, 01/08/2016, PrivateKeyEntry,

Certificate fingerprint (SHA1):

C2:C6:07:30:6F:28:84:25:FF:CD:3C:98:41:0F:8D:7D:90:27:70:3C

In tomcat configuration file server.xml:

```
<Connector port="15661"
protocol="org.apache.coyote.http11.Http11Protocol"
maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
```

```
keystoreFile="/Users/tonyliu/tomcat/tomcat.keystore"
keystorePass="omt@mel123" keyAlias="tomcat"

clientAuth="false" sslProtocol="TLS" />
```

7. Testing in Locust using Python

Ref: <https://docs.python.org/2.7/>

(1). brew install python

(2). pip install locustio

(3). Mkdir testing; cd testing;

(4). Touch locustioTest.py

(5). Open locustioTest.py in Xcode or VIM

```
from locust import HttpLocust, TaskSet, task
import requests
import json

class UserBehavior(TaskSet):
    headers = {'content-type': 'application/json'}
    params = {'sessionKey': '9ebbd0b25760557393a43864a92bae539d962103', 'format': 'xml', 'platformId': 1}
    token = ''

    #--Start End points
    @task(1)
    def creatusermsg(self):
        header = {'X-Username': 'abc', 'X-Password': 'omt@mel123'}
        url = '/rest'

        response = self.client.post(url, headers=header, catch_response=True)
        self.token = response.headers.get('X-Auth-Token')
        print 'the token is:' + self.token

        newheader = {'content-type': 'application/json', 'X-Auth-Token': self.token}
        newurl = '/rest/creatusermsg'
        data = {'name': 'pythonLoadTest', 'email': 't.liu@omnimarkettide.com', 'notes': 'pythonLoadTest load testing', 'datetime': '07/07/2016 6:22:22', 'vac': 'vactest'}
        #response = self.client.post(newurl, data=json.dumps(data), headers=newheader)
        #print "response:" + response.content

    @task(1)
    def charthistory(self):
        url = '/wssocket/charthistory'
        data = {'code': 'tls', 'type': 'IY'}
        #self.client.post(url, data=json.dumps(data), headers=self.headers)

    @task(1)
    def wssrequestcode(self):
        url = '/wssocket/wssrequestcode'
        data = [{'code': 'WBC', 'timezone': 'Australia/Hobart'}, {'code': 'WBCA', 'timezone': 'Australia/Hobart'}, {'code': 'WBCB', 'timezone': 'Australia/Hobart'}, {'code': 'WBCPC', 'timezone': 'Australia/Hobart'}, {'code': 'WBCPF', 'timezone': 'Australia/Hobart'}, {'code': 'WBCPG', 'timezone': 'Australia/Hobart'}, {'code': 'WBCPC', 'timezone': 'Australia/Hobart'}]
        response = self.client.post(url, data=json.dumps(data), headers=self.headers)
        print response.content

    @task(1)
    def wssreqhistory(self):
        url = '/wssocket/wssreqhistory'
        data = {'code': 'tls', 'count': 260}
        #self.client.post(url, data=json.dumps(data), headers=self.headers)

    @task(1)
    def sendmailcfm(self):
        url = '/api/sendmailcfm'
        data = [{'email': 't.liu@omnimarkettide.com', 'number': 'TESTNUMBER123'}]
        #self.client.post(url, data=json.dumps(data), headers=self.headers)

    @task(1)
    def getuserhistmsg(self):
        url = '/api/getuserhistmsg'
        data = 'getuserhistmsg'
        #self.client.post(url, data=data)

    @task(1)
    def setuserstatus(self):
        url = '/status/setuserstatus'
        data = {'emailid': 'rgent.com', 'status': 1, 'time': ''}
        #self.client.post(url, data=json.dumps(data), headers=self.headers)

    @task(1)
    def gains(self):
        self.client.get('/asxdata/gains')

class WebsiteUser(HttpLocust):
    task_set = UserBehavior
    min_wait=5000
    max_wait=9000
```

(6). locust -f locustioTest.py --

host="http://query.omnimarkettide.com:15660/"

(7). localhost:8089


localhost:8089

Contact | Omni Market Tide

[MSPF-6] Upgrade JRE&JDK&Tomcat 7->8 - Omn...

Files - OneDrive

OMT-WebService User Manual.docx - Microsoft W...



LOCUST
A MODERN LOAD TESTING TOOL

STATUS
STOPPED
[New test](#)

RPS
2.3

FAILURES
0%

Statistics

Failures

Exceptions

Download Data

Type	Name	# requests	# fails	Median	Average	Min	Max	Content Size	# reqs/sec
GET	/agm/approved	5	0	43	161	42	633	1418	0.1
GET	/agm/index	12	0	44	106	43	734	1418	0.1
GET	/agm/news	7	0	44	44	42	47	1418	0.2
GET	/agm/online	12	0	43	47	42	62	1418	0.4
GET	/asxdata/all	13	0	23	26	22	42	1035	0.2
GET	/asxdata/declines	8	0	23	97	23	602	519	0.1
GET	/asxdata/gains	19	0	22	53	21	585	517	0.1
GET	/cfp/index	12	0	44	78	41	404	1418	0.1
GET	/login	16	0	22	24	20	46	1418	0.3
GET	/stat/index	14	0	43	47	42	70	1418	0
GET	/stat/smadiff	16	0	43	44	42	55	1418	0.2
GET	/user/index	17	0	44	83	42	662	1418	0.5
POST	/wssocket/wsrequestcode	11	0	180	190	154	303	5357	0
Total		162	0	43	89	20	734	1504	2.3