

SMART System

Web Trade Module

Project Code	ALL
Project Name	ALL

Category	Role	Name	Signed	Date
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Modified By	Project Leader			
Approved By	Project Manager			

Revision History

No	Version No	Date of Release	Prepared By	Approved By	List of changes from Previous Version
1	M001	31/10/16	WTS	RCC	Initial Version
2	M002	07/11/17	WTS	RCC	- Functions : Buy and Sell Order , Cancel order - Disclaimers - Validation for Internet trading

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Introduction

To enhance the investor's service quality for investors who want to use the trading system to place the purchasing orders by themselves significantly increasing at the stock brokerage firms. Freewill Solution has developed a new module so-called Webtrade aim to meet the requirement of the stock brokerage firms.

Definition

Mobile trading is the system used for investor stock trading. The system is divided into 4 parts:

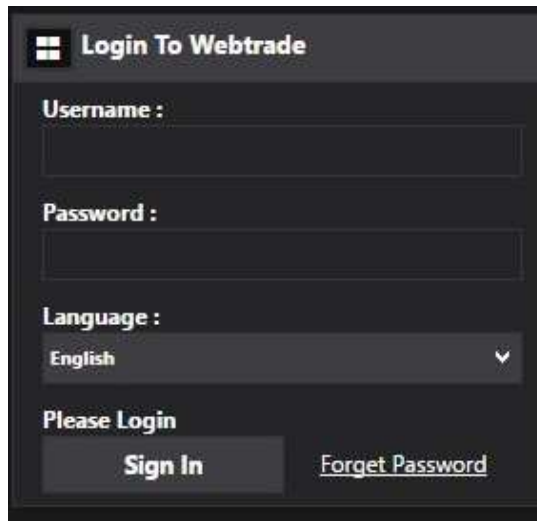
- **Stock information:** showing detail stock information such as price, traded volume, stock transaction, includes history data.
- **Market information:** showing general market and stock information of YSX.
- **Order Information:** using for view order
- **Account Information:** viewing account information.

Definition and Color:

- **Information of Index**
 - White: Stock index has not changed.
 - Green: Stock index has increased from the last official day.
 - Red: Stock index has decreased from the last official day.
- **Stock information**
 - Yellow: That stock has a present price equals closed price of the last official day.
 - Green: That stock has a present price more than closed price of the last official day.
 - Red: That stock has a present price less than closed price of the last official day.
 - Green Screen, BlackLetter: That stock has a present price equals ceiling price.
 - Red Screen, Black Letter: That stock has a present price equals floor price.
- **Comparison of Last Trade Price and Closed Price of the Previous Day**
 - Grey : Last trade price equals closed price of last official day.
 - Green: Last trade price more than closed price of last official day.
 - Red: Last trade price less than closed price of last official day.
- **Information of Execution**
 - Blue : It is buying order.
 - Purple: It is selling order.
- **Hit/Take Sign Detail**
 - + sign mean It is Take; - sign mean It is Hit.

Login and Status line

- **Login :** login screen for webtrade and forget password



- **Status line :** This screen displays summarizes the overall state of market , market status of YSX and Time

Out put	Description
Time	The specific times when the trades are occurred (HH:MM:SS)
SS	Stock session S : Start Market P : Preopen O : Market OPEN K : Close
Logout	Logout webtrade

- **Disclaimers** : Customer must read and agree before access application

Confirm Login English Myanmar

1.) KTZ Ruby Hill Securities Co., Ltd. (KTZRH) is not liable for damages caused by any performance, failure of performance, error, omission, interruption, deletion, defect, delay in transmission or operations, computer virus, communications line failure, and unauthorized access to the personal accounts. KTZRH is not responsible for any technical failure or malfunctioning of the hardware and software or delays of any kind. We are also not responsible for non-receipt of registration details or e-mails. Users shall bear all responsibility of keeping the password secure. KTZRH is not responsible for the loss or misuse of the password. Moreover, KTZRH shall not be liable for any loss or liability resulting, directly or indirectly, from weather, strike walkouts, fire, riots, and armed conflicts, act of war or other like causes.

2.) The orders are to be executed by confirming PIN Code, therefore, the customer must be aware and comply with the following rules:

- The customer understands and agrees that you are responsible for maintaining the confidentiality of the User ID, Password and PIN Code and agree not to provide them to any other person.
- The customer specifically agrees that you are responsible for any actions entered through the website and/or applications

I agree.

Agree Cancel

Trade Information

- o **Market menu**: This screen shows functions to view detail stock information



TRADE INFORMATION



❖ **Description:**

Input	Description
STOCK Code	Code which indicates that stock.

Out put	Description
Full name	The listed company name
LAST PRICE	The last trade price of the stock in the trading date Color: data of the comparison price between the last trade price and closed price of the previous day
BASE PRICE	Close price
HI/LO	Highest price and lowest price
OPEN	Open : Opened price of the stock in the morning period
CEIL/FLOOR	Ceiling price: the highest trade price of the stock which is able to be traded Floor price: the lowest trade price of the stock which is able to be traded
T.VOL/T.VAL	Volume : Total volume which has been traded in the market Value : Total value which has been traded in the market
Proj.Open/Vol	Project open: The price is expected to be as open price Vol: Volume is expected for open price
SPREAD	Price range
Bid	Stock bidding volume
OFFER	Stock OFFER volume
PRICE	The price corresponds to each transaction
VOLUME	The volume corresponds to each transaction

Market Information

- **Most active menu** : This screen shows all functions to view detail market information such as: Local value , Local volume , Swing , Top gainer , Top loser



MOST ACTIVE BY VALUE

This screen display stocks which have the highest value .

- **Direction:**
 - Go to “Most Active” screen



symbol	mainaccval	pmkt_val	mainaccvol	last	change	pchange	avg	high	low
00001	41,599,500	95	2,507	17,000	500	303	16,593	17,000	16,500
00003	1,974,000	5	210	9,400	-100	-105	9,400	9,400	9,400

- **Description:**

Out put	Description
Symbol	Symbol which indicates that stock (abbreviation stock)
MainAccVal	Total value of each stock in the Main Board
%MKT.Val	The proportion of the value of each stock compare with the total value of each market, in percent
MainAccVol	Total volume of each stock in the Main Board
Last	The last trade price of the stock in the trading date

Change	The changes of the last trade price when compare with PRIOR
%Change	The percentage of the changes of the last trade price when compare with PRIOR
Avg	The average price of each stock in the trading date
High	The highest trade price of each stock in the trading date
Low	The lowest trade price of each stock in the trading date

MOST ACTIVE BY VOLUME

This screen display stocks which have most volume (amount of stocks), order from largest amount to smallest amount.

- **Direction:**
 - Go to “Most Active” screen



symbol	mainaccval	pmkt_val	mainaccvol	last	change	pchange	avg	high	low
00001	41,599,500	95	2,507	17,000	500	303	16,593	17,000	16,500
00003	1,974,000	5	210	9,400	-100	-105	9,400	9,400	9,400

- **Description:**

Out put	Description
Symbol	Symbol which indicates that stock (abbreviation stock)
MainAccVol	Total volume of each stock in the Main Board
MainAccVal	Total value of each stock in the Main Board
%MKT.Val	The proportion of the volume of each stock compare with the total volume of each market, in percent

Last	The last trade price of the stock in the trading date
Change	The changes of the last trade price when compare with PRIOR
%Change	The percentage of the changes of the last trade price when compare with PRIOR
Avg	The average price of each stock in the trading date
High	The highest trade price of each stock in the trading date
Low	The lowest trade price of each stock in the trading date

MOST SWING (MOST VOLATILE STOCK)

This screen display stocks which have price change between highest price and lowest price (swing), order by percent change (% swing).

- **Direction:**
 - Go to “Most Active” screen



symbol	swing	pswing	high	low	last	change	mainavg	mainaccvol	mainaccval
00001	500	303	17,000	16,500	17,000	500	16,593	2,507	41,599,500

- **Description:**

Out put	Description
Symbol	Symbol which indicates that stock (abbreviation stock)
Swing	The difference between highest trade price and the lowest price of the trading date (HIGH - LOW)
%Swing	The percentage of the proportion of SWING and Closed price (HIGH - LOW)*100/PRIOR

High	The highest trade price of each stock in the trading date
Low	The lowest trade price of each stock in the trading date
Last	The last trade price of the stock in the trading date
Change	The changes of the last trade price when compare with PRIOR
MainAvg	The average price of each stock in the trading date
MainAccVol	Total volume of each stock in the Main Board
MainAccVal	Total value of each stock in the Main Board

MOST ACTIVE GAINER

This screen display stock whose price is increased when compare with closed price of the previous trading date.

- **Direction:**
 - Go to “Most Active” screen



Symbol	Last	Change	%Change	MainAccVol	MainAccVal	%MKT.VAL	AVG	HIGH	LOW
00001	17,000	500	303	2,507	41,599,500	95	16,593	17,000	16,500

- **Description:**

Out put	Description
Symbol	Symbol which indicates that stock (abbreviation stock)
Last	The last trade price of the stock in the trading date
Change	The changes of the last trade price when compare with PRIOR

%Change	The percentage of the changes of the last trade price when compare with PRIOR
MainAccVol	Total volume of each stock in the Main Board
MainAccVal	Total value of each stock in the Main Board
%MKT.Val	The proportion of the value of each stock compare with the total value of each market, in percent
Avg	The average price of each stock in the trading date
High	The highest trade price of each stock in the trading date
Low	The lowest trade price of each stock in the trading date

MOST ACTIVE LOSER

This screen display stocks whose price is decreased when compare with closed price of the previous trading date.

- **Direction:**
 - Go to “Most Active” screen



symbol	last	change	pchange	mainaccvol	mainaccval	pmkt_val	avg	high	low
00003	9,400	-100	-105	210	1,974,000	5	9,400	9,400	9,400

- **Description:**

Output	Description
Symbol	Symbol which indicates that stock (abbreviation stock)
Last	The last trade price of the stock in the trading date
Change	The changes of the last trade price when compare with PRIOR

%Change	The percentage of the changes of the last trade price when compare with PRIOR
MainAccVol	Total volume of each stock in the Main Board
MainAccVal	Total value of each stock in the Main Board
%MKT.Val	The proportion of the value of each stock compare with the total value of each market, in percent
Avg	The average price of each stock in the trading date
High	The highest trade price of each stock in the trading date
Low	The lowest trade price of each stock in the trading date

Order Information

- **Order menu** : This screen shows functions to view detail order information



VIEW ORDER

This screen displays all the orders which will be ordered by time from latest to oldest. The followings are the order that can be filled to view order:

1. View order by Account
2. View order by Stock
3. View order by Side
4. View order by Status
5. View order by Trading time

❖ **Direction:**

- Go to “View Order” screen

View Order										
0000011	ALL SYMBOL	all_side	ALL STATUS	Normal				page	1	
orderno	symbol	price	vol	side	match	unmatch	ord_st	srv	type	
5	99045	1000	3	S		3	X	D		
4	99045	MP	2	S		2	X	D		
3	99045	1050	2	B		2	O	D		
2	99045	840	2	B		2	O	D		
1	99045	MP	20	B		20	O	D		

❖ Description:


Input	Description
ACCOUNT	Number ID of the customer who desires to buy the order (Cash account/Margin account)
SYMBOL	Symbol which indicates that stock (abbreviation stock)
SIDE	Buy/Sell
STATUS	Order status O = Open order M = Match order PO = Pending order PX = Pending Cancel R = Reject order X = Cancel order XA = Canceled Order; order which has been approved and cancelled

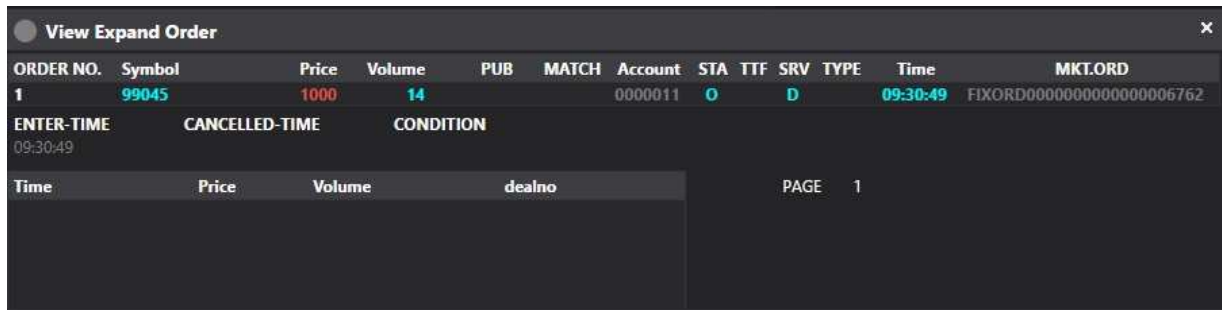
Output	Description
ORD	Order ID
SYMBOL	Symbol which indicates that stock (abbreviation stock)
PRICE	Price which user want to purchase stock
VOLUME	Quantity which the user want to buy stock
MATCH	Stock volume which has been sold/bought
UNMATCH	Stock volume which stock no match
STA	Order status
SRV	Service Type 'I' = Internet; 'D' = Dealer
TYPE	Order Type

VIEW EXPAND ORDER

The screen displays detail of the order information.

❖ **Direction:**

- From “View Order” screen, select the order want to change, then Press 
- View Expand Order screen will appear and show the order’s detail information for user checking again.



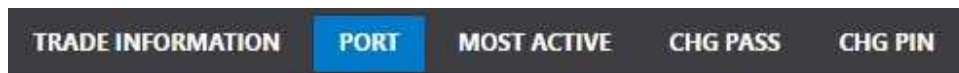
❖ **Description:**

Output	Description
ORDER NO.	Order ID
SYMBOL	Symbol which indicates that stock (abbreviation stock)
PRICE	Price which user want to purchase stock
VOLUME	Quantity which the user want to buy stock
PUB	Amount limitation in one transaction which summary publish must not exceed buy/sell orders
MATCH	Stock volume which has been sold/bought
ACCOUNT	Number ID of the customer who desires to buy the order (Cash account/Margin account)

STA	Order status
TTF	Thai Trust Fund Number
SRV	Service Type 'I' = Internet; 'D' = Dealer
TYPE	Order Type
ENTER TIME	Time of key order
MKT.ORD	Order market ID from stock exchange
ENTER TIME	Time when user entered order
CANCELLED TIME	Time when user cancelled order
Time	Time when order matched and sent from stock exchange
Price	The matched price
Volume	The matched quantity
Deals	Number of deal time

Account and Port Information

- **Port menu** : This screen shows all functions to view detail account information such as: Portfolio , Credit available



PORTFOLIO

Portfolio Status that show the Investor’s information about gain or loss divided by the stock that the investors have. It also shows whether the investor will gain or loss if they sell that stock at the trading date.

❖ **Direction:**

- Go to “Portfolio” menu

0005141	symbol	type	act	avai	cost	m_price	amount	m_value	unrealize	%Unrealize	realize
	99004	02	1,000	1,000	4,800	4,500	4,800,000	4,500,000	-345,000	-7.19	

❖ **Description:**

Output	Description
SYMBOL	Symbol which indicates that stock (abbreviation stock)
TYPE	Types of the stock
ACT	Actual amount of the stock
AVAI	Available amount of the stock
COST	The achieved price
M.PRICE	Price base on market in real time
AMOUNT	Amount = available * cost – commission amount
MARKET VALUE	Market value = available * market price
UNREALIZE	Gain or Loss that will happen if the stock was traded
REALIZE	Gain or Loss from traded that stock

CREDIT AVAILABLE

This screen displays information about customer credit in each account

❖ **Direction:**

- Go to “Portfolio” menu



❖ **Description:**

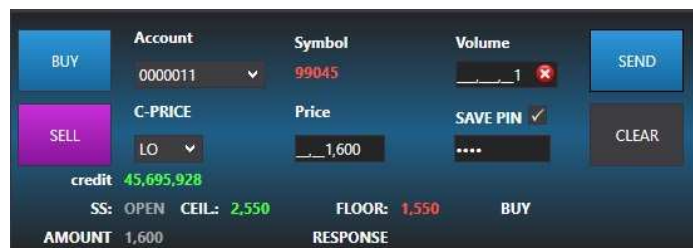
Output	Description
A/O	Trader who take care of the Account
BUY CREDIT	Total amount of money that customer can buy stock

Send and Cancel Order

SEND ORDER

Customer can send order in online trading both buy side and sell side

❖ Buy Order:



The screenshot shows the 'BUY' order form. It includes fields for 'Account' (0000011), 'Symbol' (99045), and 'Volume' (1). The 'C-PRICE' is set to 'LO' and the 'Price' is 1,600. There is a 'SAVE PIN' checkbox checked. The 'SEND' button is highlighted in blue. Below the form, the account credit is 45,695,928. The order type is 'BUY' with an amount of 1,600 and a response field.

❖ Sell Order:



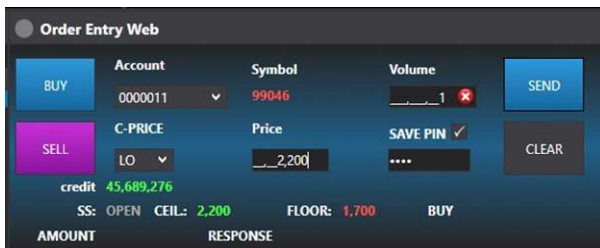
The screenshot shows the 'SELL' order form. It includes fields for 'account' (0000011), 'symbol' (99046), and 'volume' (2). The 'c_price' is set to 'LO' and the 'price' is 1,700. There is a 'save_pin' checkbox checked. The 'SEND' button is highlighted in purple. Below the form, the account credit is 4,985,722. The order type is 'SELL' with an amount of 3,400 and a response field.

❖ Description:

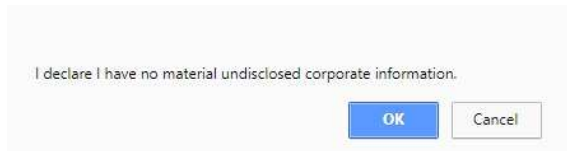
	Description
ACCOUNT	Number ID of the customer who desires to buy the order (Cash account/Margin account)
SYMBOL	Symbol which indicates that stock (abbreviation stock)
VOLUME	Quantity which the user want to buy stock
SIDE	Buy/Sell
C_PRICE	Condition price: MP or Limited Price

PRICE	Price which user want to purchase stock
SAVE PIN	SAVE PIN
CREDIT	Total amount of money that customer can buy stock
CEIL/FLOOR	Ceiling price: the highest trade price of the stock which is able to be traded Floor price: the lowest trade price of the stock which is able to be traded
AMOUNT	Amount = available * cost - commission amount
RESPONSE	Text from system

Step for send order



1. Search : Stock code
2. Input Volume
3. Select C-PRICE
4. Input PRICE
5. Input PIN
6. SEND
7. Answer question
8. See the result from system



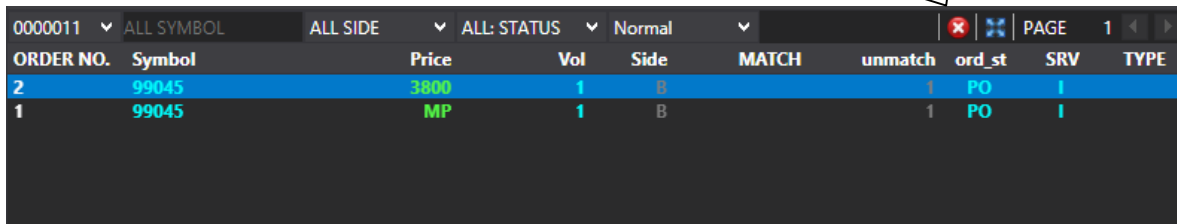
CANCEL ORDER

Customer can cancel unmatched order

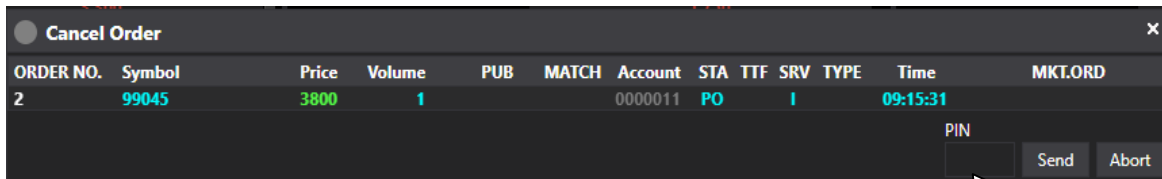
❖ **Cancel Order:**

After cancel order status is X

Step 1. Click Cancel Button



ORDER NO.	Symbol	Price	Vol	Side	MATCH	unmatch	ord_st	SRV	TYPE
2	99045	3800	1	B		1	PO	I	
1	99045	MP	1	B		1	PO	I	



ORDER NO.	Symbol	Price	Volume	PUB	MATCH	Account	STA	TTF	SRV	TYPE	Time	MKT.ORD
2	99045	3800	1			0000011	PO	I			09:15:31	

PIN Send Abort

Step 2. Input PIN and send

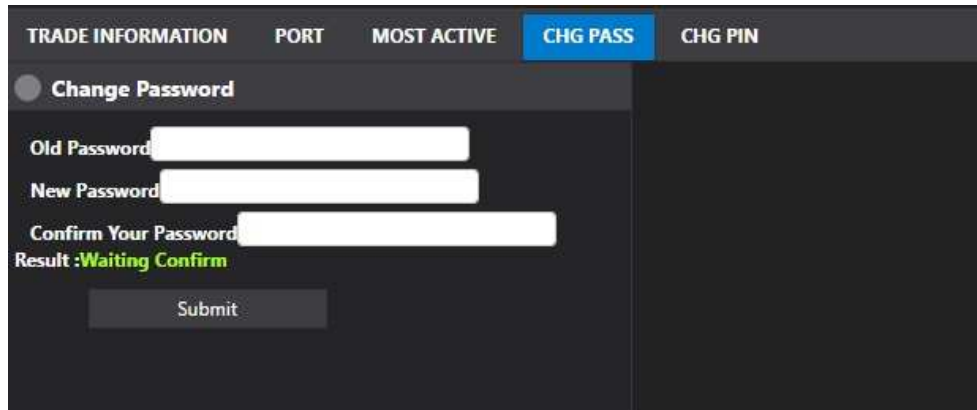
❖ **Description:**

Output	Description
ORDER NO.	Order ID
SYMBOL	Symbol which indicates that stock (abbreviation stock)
PRICE	Price which user want to purchase stock
VOLUME	Quantity which the user want to buy stock
PUB	Amount limitation in one transaction which summary publish must not exceed buy/sell orders
MATCH	Stock volume which has been sold/bought

ACCOUNT	Number ID of the customer who desires to buy the order (Cash account/Margin account)
STA	Order status
TTF	Thai Trust Fund Number
SRV	Service Type 'I' = Internet; 'D' = Dealer
TYPE	Order Type
ENTER TIME	Time of key order
MKT.ORD	Order market ID from stock exchange

Change Password

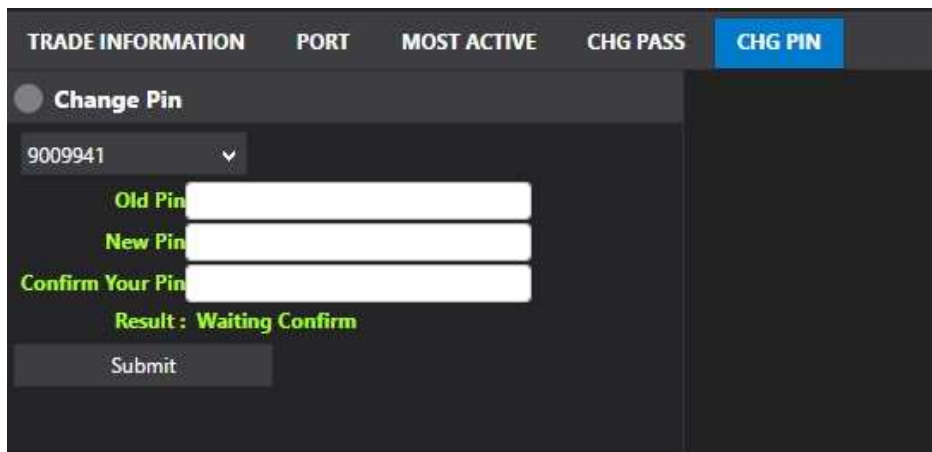
- **Change Password menu** : This screen for customer change password for login Webtrade



The screenshot shows the 'Change Password' menu in the Webtrade user interface. The menu is titled 'Change Password' and is located under the 'CHG PASS' tab. The form contains three input fields: 'Old Password', 'New Password', and 'Confirm Your Password'. Below the input fields, the text 'Result :Waiting Confirm' is displayed in green. A 'Submit' button is located at the bottom of the form.

Change PIN

- **Change Pin menu** : This screen for Customer change PIN for Order



The screenshot shows the 'Change Pin' menu in the Webtrade user interface. The menu is titled 'Change Pin' and is located under the 'CHG PIN' tab. The form contains a dropdown menu with the value '9009941' and three input fields: 'Old Pin', 'New Pin', and 'Confirm Your Pin'. Below the input fields, the text 'Result : Waiting Confirm' is displayed in green. A 'Submit' button is located at the bottom of the form.

Validation for Internet trading

- **Market data validation**

- Stock name

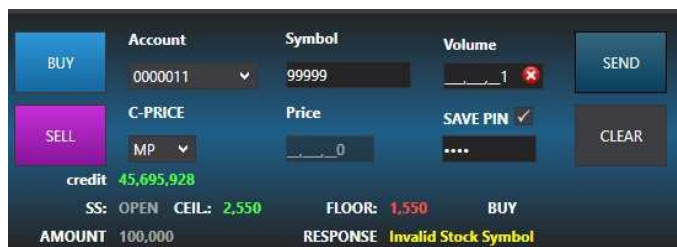
The system can validate stock name both of buy side and sell side that reference data from YSX .



The screenshot shows a trading interface with the following fields and values:

BUY	Account	Symbol	Volume	SEND
	0000011	99045	1	
SELL	C-PRICE	Price	SAVE PIN	CLEAR
	LO	1,875	✓	

credit: 45,695,928
 SS: OPEN CEIL: 2,550 FLOOR: 1,550 SELL
 AMOUNT 1,875 RESPONSE Price is Invalid Spread



The screenshot shows a trading interface with the following fields and values:

BUY	Account	Symbol	Volume	SEND
	0000011	99999	1	
SELL	C-PRICE	Price	SAVE PIN	CLEAR
	MP	0	✓	

credit: 45,695,928
 SS: OPEN CEIL: 2,550 FLOOR: 1,550 BUY
 AMOUNT 100,000 RESPONSE Invalid Stock Symbol

Ceiling/Floor

The system can validate ceiling and floor of stock both of buy side and sell side that reference data from YSX.

BUY	Account 0000011	Symbol 99045	Volume 1	SEND
SELL	C-PRICE LO	Price 100,000	SAVE PIN ✓	CLEAR
credit 45,695,928				
SS: OPEN CEIL: 2,550 FLOOR: 1,550 BUY				
AMOUNT 100,000 RESPONSE Price is Upper Ceiling				

BUY	Account 0000011	Symbol 99045	Volume 1	SEND
SELL	C-PRICE LO	Price 4	SAVE PIN ✓	CLEAR
credit 45,695,928				
SS: OPEN CEIL: 2,550 FLOOR: 1,550 BUY				
AMOUNT 4 RESPONSE Price is Lower Floor				

Tick Size

The system can validate Tick Size of price both of buy side and sell side that reference data from YSX.

BUY	Account 0000011	Symbol 99045	Volume 1	SEND
SELL	C-PRICE LO	Price 1,875	SAVE PIN ✓	CLEAR
credit 45,695,928				
SS: OPEN CEIL: 2,550 FLOOR: 1,550 BUY				
AMOUNT 1,875 RESPONSE Price is Invalid Spread				

BUY	Account 0000011	Symbol 99045	Volume 1	SEND
SELL	C-PRICE LO	Price 1,875	SAVE PIN ✓	CLEAR
credit 45,695,928				
SS: OPEN CEIL: 2,550 FLOOR: 1,550 SELL				
AMOUNT 1,875 RESPONSE Price is Invalid Spread				

- **Credit validation**

- Position

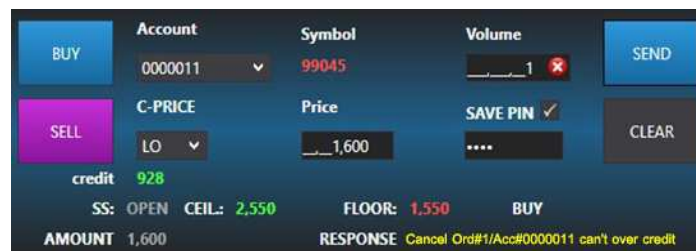
The system can validate stock in position before sell order.



BUY	Account	Symbol	Volume	SEND
	0000011	99045	2	
SELL	C-PRICE	Price	SAVE PIN	CLEAR
	MP	0	✓	
	credit			
	45,695,928			
	SS: OPEN	CEIL: 2,550	FLOOR: 1,550	SELL
	AMOUNT		RESPONSE	This customer can not short sale.

- Credit

The system can validate credit of customer before buy order.



BUY	Account	Symbol	Volume	SEND
	0000011	99045	1	
SELL	C-PRICE	Price	SAVE PIN	CLEAR
	LO	1,600	✓	
	credit			
	928			
	SS: OPEN	CEIL: 2,550	FLOOR: 1,550	BUY
	AMOUNT	1,600	RESPONSE	Cancel Ord#1/Acc#0000011 can't over credit

- **Special validation**

- Limit trading

The system can validate limit value per order and preventing insider trading.



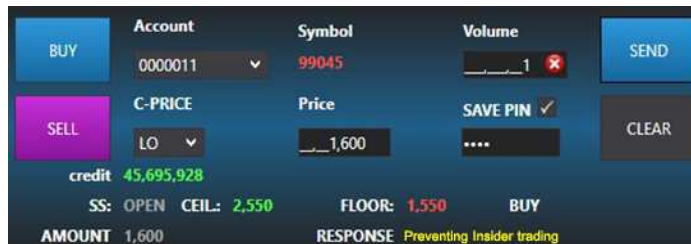
BUY	Account: 0000011	Symbol: 99045	Volume: 10,000	SEND
SELL	C-PRICE: LO	Price: 2,600	SAVE PIN: ✓	CLEAR
credit: 45,695,928		SS: OPEN CEIL: 2,600 FLOOR: 1,600 BUY		
AMOUNT: 26,000,000		RESPONSE: Exceed maximum value per order		



BUY	Account: 0000011	Symbol: 99045	Volume: 10,000	SEND
SELL	C-PRICE: LO	Price: 2,600	SAVE PIN: ✓	CLEAR
credit: 45,695,928		SS: OPEN CEIL: 2,600 FLOOR: 1,600 SELL		
AMOUNT: 26,000,000		RESPONSE: Exceed maximum value per order		

- Suspend Order from Insider

The system can to suspend any order placement by insiders



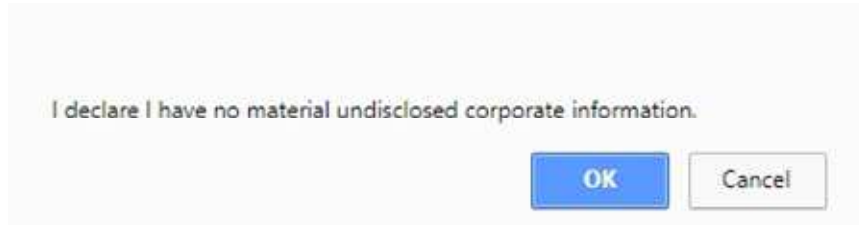
BUY	Account: 0000011	Symbol: 99045	Volume: 1	SEND
SELL	C-PRICE: LO	Price: 1,600	SAVE PIN: ✓	CLEAR
credit: 45,695,928		SS: OPEN CEIL: 2,550 FLOOR: 1,550 BUY		
AMOUNT: 1,600		RESPONSE: Preventing Insider trading		



BUY	account: 0000011	symbol: 99046	volume: 2	SEND
SELL	c_price: LO	price: 1,700	save_pin: ✓	CLEAR
credit: 4,985,722		ss OPEN ceil: 1,900 floor: 1,400 SELL		
amount: 3,400		response: Preventing Insider trading		

Preventing insider trading

The system can to declare for every order placement is insider or not before send order.



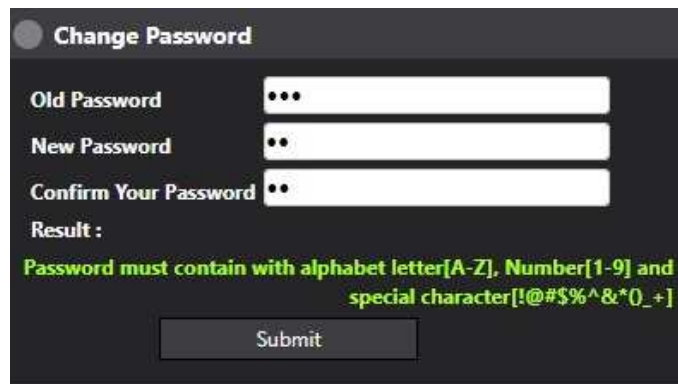
I declare I have no material undisclosed corporate information.

OK Cancel

○ Password rule

The system has the password rule for customer changing password.

- Minimum 3 character
- Maximum 8 character
- Password rule :
 - Alphabet A-Z
 - Number 1-9
 - Special character



Change Password

Old Password

New Password

Confirm Your Password

Result :

Password must contain with alphabet letter[A-Z], Number[1-9] and special character[!@#\$\$%^&*0_+]

Submit