Pro View

System Design Document

CSCC01

Group: Pro-Group

Group Member:

Junheng Wang Zhitao Xu Qi Li Xiangyi Li

Zijian Fan

Yuanhan Chen

Table of content:

CRC Cards	2	
Front End CRC Card	2	
Back End CRC Card	10	
System Architecture Diagram	18	

Front End CRC Cards:

Card 1

Component: Login Page

Place: \frontend\src\components\Login.js

Parent Class: None SubClass: None

Responsibilities: Allow the user to register a new email and password. It also provides users some feedback about the current

process.

Collaborator: Edit Text, Button

Card 2

Component: Navbar

Place: \frontend\src\components\NavBar\NavBar.js

Parent Class: None SubClass: None

Responsibilities: Show the dropdowns.

Allow users to navigate between different pages.

Button

Collaborator: StockPage,Clock, Trade, View,

Card 3

Component: Register Page

Place: \frontend\src\components\Register.js

Parent Class: None SubClass: None

Responsibilities: Allow users to register to register an account. It also reminds users

when they type an invalid input.

Collaborator: Login, Stock, Button

Card 4

Component: Clock

Place: \frontend\src\components\Clock.js

Parent Class: None SubClass: None

Responsibilities: Show different time zone times. Users can also set the alarm to

remind them.

Collaborator: Alarm

Card 5

Component: Currency

Place: \frontend\src\components\Login.js

Parent Class: None SubClass: None

Responsibilities: Show the current exchange rate. It also allows users to Collaborator: exchange currency online. Card 6 Component: Chatbox Place: \frontend\src\components\chatBox.js Parent Class: None SubClass: None Responsibilities: Allow users to chat with other users among their friend list. Users Collaborator: Edit Text also can send image or their balance record through this page Card 7 Component: Trade Place: \frontend\src\components\Trade.js Parent Class: None SubClass: None Responsibilities: It allows users to trade stocks. It also shows users the Collaborator: remendations. Card 8 Component: View Place: \frontend\src\components\View.js

Parent Class: None SubClass: None	
Responsibilities: Show users the image and their different stock status.	Collaborator:
Card 9	
Component: Button	
Place: \frontend\src\components\Button.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to interact with the website by clicking.	Collaborator:
Card 10	
Component: Edit Text (password box etc)	
Place: \frontend\src\components\editText.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to input information through the input box.	Collaborator:
Card 11	
Component: Stock	

Place: \frontend\src\Stock.js

Parent Class: None
SubClass: None

Responsibilities: It shows the stock graph on the page. Besides, users can also zoom in or out on the graph.

Collaborator:

Card 12

Component: Sidebar

Place: \frontend\src\components\SideBar

Parent Class: None
SubClass: None

Responsibilities: It allows users to switch to different pages by clicking different buttons.

Collaborator: SidebarOption.js

Card 13

Component: Drawing panel

Place: \frontend\src\components\drawingPanel.js

Parent Class: None
SubClass: None

Responsibilities: It allows users to draw on the panel. The drawing panel is the same as the stock panel.

Collaborator: Stock

Card 14

Component: Hotlist

Place: \frontend\src\components\Hotlist.js

Parent Class: None SubClass: None

Responsibilities: It displays 20 hot stocks and users can view stock's details by

clicking the buttons.

Collaborator: button, header

Card 15

Component: Alarm

Place: \frontend\src\components\Alarmpage.js

Parent Class: None SubClass: None

Responsibilities: It allows users to set alarms on the website. Users can also change the alarm setting on this page.

Collaborator: button, selectors

Card 16

Component: Paper Trading

Place: \frontend\src\components\PaperTrading.js

Parent Class: None SubClass: None

Responsibilities: It allows users to

manipulate the virtual transaction to practice

their skill.

Collaborator: button

Card 17

Component: Watchlist

Place: \text{\text{frontend\src\components\WatchList.js}}

Parent Class: None

Responsibilities: It allows users to add stock to their personal watchlist so that they could view the chosen stocks on the home page.

Card 18

Component: StockFeed

Place: \text{\text{\text{frontend\src\components\StockFeed.js}}}

Parent Class: None

Parent Class: None
SubClass: None

Responsibilities: Used to show the main page of the stock, contains watch list and corresponding stocks.

Collaborator: WatchList and Stock

Card 19

Component: Community

Place: \frontend\src\components\Community.js

Parent Class: None
SubClass: None

Responsibilities: show users the page that can join an existing group.

Collaborator: Button, Edit text

Card 20

Component: GroupTag

Place: \text{\text{\text{frontend\src\components\GroupTag.js}}}

Parent Class: None
SubClass: None

Responsibilities: Show information of a Group, it's name and a button to chat.

Collaborator: none

Card 21

Component: GroupList

Place: \frontend\src\components\GroupList.js

Parent Class: None
SubClass: None

Responsibilities: Show all Groups in the database, used in GroupPage.

Collaborator: GroupTag

Card 22

Component: GroupPage

Place: \frontend\src\components\GroupPage.js

Parent Class: None
SubClass: None

Responsibilities: allow user to chat in a group, use GroupList to show all groups and chatBox to chat.

Collaborator: GroupList, ChatBox

Backend CRC Cards

Card 1	
Component: User list	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It sends user information they searched on the search page.	Collaborator:
Card 2	
Component: Register	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to register an account. It also send the feedback if any error ocurs	Collaborator:
Card 3	
Component: Login	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to login. Users can also switch to reset the password on this page.	Collaborator:

Card 4	
Component: Logout	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to logout by clicking the logout button on the sidebar.	Collaborator: Sidebar
Card 5	
Component: Profile	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It allows users to see the profile by clicking the profile button on the sidebar.	Collaborator:
Card 6	
Component: database_connect	
Place: \backend\db\connect.js	
Parent Class: None SubClass: None	
Responsibilities: store the data	

	Collaborator: User
Card 7	
Component: User	
Place: \backend\models\User.js	
Parent Class: None SubClass: None	
Responsibilities: formalize the user information	Collaborator: database_connect

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Card 8	
Component: reset_password	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It helps users to reset the password.	Collaborator: database_connect

Card 9
Component: find_friends
Place: \backend\controllers\auth.js
Parent Class: None SubClass: None

Responsibilities: It helps users to search for other users stored in the database.

Collaborator: database_connect

Card 10

Component: find_friend_in

Place: \backend\controllers\auth.js

Parent Class: None SubClass: None

Responsibilities: It allows users to receive

adding friend request.

Collaborator: database_connect

Card 11

Component: find_friend_out

Place: \backend\controllers\auth.js

Parent Class: None SubClass: None

Responsibilities: It allows users to send

adding friend requests.

Collaborator: database_connect

Card 12

Component: add_friends

Place: \backend\controllers\auth.js

Parent Class: None SubClass: None

Responsibilities: It is a request from other

users to add them to their friend list.

Collaborator: database_connect

Card 13

Component: accept_friend

Place: \backend\controllers\auth.js

Parent Class: None
SubClass: None

Responsibilities: It helps users to accept the request to add a friend.

Collaborator: database_connect

Card 14

Component: reject_friend

Place: \backend\controllers\auth.js

Parent Class: None
SubClass: None

Responsibilities: It helps users to reject the friend request on their friends page.

Collaborator: database_connect

Card 15

Component: add_to_personal_watchlist

Place: \backend\controllers\auth.js

Parent Class: None
SubClass: None

Responsibilities: It helps users to add their favorite stock to personal watchlist.

Collaborator: database_connect

Card 16
Component: get_watchlist

Place: \backend\controllers\auth.js

Parent Class: None
SubClass: None

Responsibilities: It helps to get information from users watchlist.

Collaborator: database_connect

Card 17

Component: getMsg

Place: \backend\controllers\msg.js

Parent Class: None
SubClass: None

Responsibilities: It helps the users to get chat messages.

Collaborator: database_connect

Card 18

Component: sendMsg

Place: \backend\controllers\msg.js

Parent Class: None
SubClass: None

Responsibilities: It helps the users to send chat messages.

Collaborator: database_connect

Card 19

Component: createGroup	
Place: \backend\controllers\group.js	
Parent Class: None SubClass: None	
Responsibilities: It helps the users to create a group chat.	Collaborator: database_connect
Card 20	
Component: addMember	
Place: \backend\controllers\group.js	
Parent Class: None SubClass: None	
Responsibilities: It helps the users to add group member to a group chat.	Collaborator: database_connect
Card 21	
Component: getMember	
Place: \backend\controllers\group.js	
Parent Class: None SubClass: None	
Responsibilities: It helps the users to get a group member.	Collaborator: database_connect

Card 22	
Component: buyStock	
Place: \backend\controllers\stock.js	
Parent Class: None SubClass: None	
Responsibilities: It helps the users to use fake money to buy a stock.	Collaborator: database_connect

Card 23	
Component: getBalance	
Place: \backend\controllers\stock.js	
Parent Class: None SubClass: None	
Responsibilities: It helps users check whether they have made or lost money on paper trading.	Collaborator: database_connect

System architecture

