

# **Pro View**

## **System Design Document**

*CSCC01*

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## 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 provide users some feedback about the current process.	<b>Collaborator:</b> 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.	<b>Collaborator:</b> StockPage,Clock, Trade, View, Button

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.	<b>Collaborator:</b> 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.	<b>Collaborator:</b> 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 exchange currency online.	<b>Collaborator:</b>
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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 also can send image or their balance record through this page	<b>Collaborator:</b> Edit Text

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 remendations.	<b>Collaborator:</b>

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.	<b>Collaborator:</b>

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.	<b>Collaborator:</b>

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.	<b>Collaborator:</b>

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.	<b>Collaborator:</b>

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.	<b>Collaborator:</b> 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.	<b>Collaborator:</b> Stock

Card 14
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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.	<b>Collaborator:</b> 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.	<b>Collaborator:</b> button, selectors

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.	<b>Collaborator:</b>

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 occurs	<b>Collaborator:</b>

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.	<b>Collaborator:</b>

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.	<b>Collaborator:</b> 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.	<b>Collaborator:</b>

Card 6	
Component: database_connect	
Place: \backend\db\connect.js	
Parent Class: None SubClass: None	
Responsibilities: store the data	

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

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

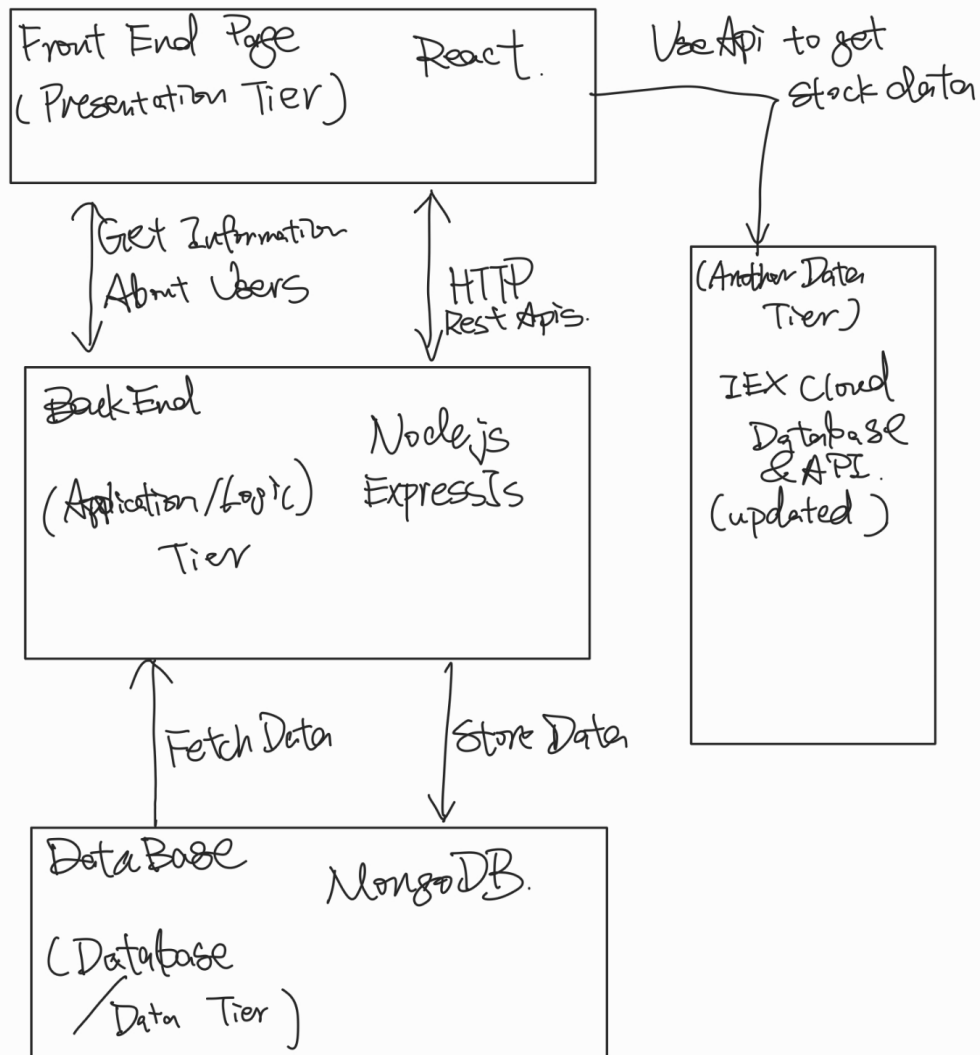
Card 13	
Component: accept_friend	
Place: \backend\controllers\auth.js	
Parent Class: None SubClass: None	
Responsibilities: It helps users to accept the request to add a friend.	<b>Collaborator:</b> database_connect

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.	<b>Collaborator:</b> database_connect

# System architecture

System architecture Diagram

Three-tier-Architecture



Reference: <https://www.ibm.com/cloud/learn/three-tier-architecture>