CSC4350/6350

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A stock trading software. The price is real-time and the exchange is virtual.

Virtual Stock

BATMAN

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**Problem Statements of**

**Virtual Stock-1.0 Introduction**

Batman shall develop a stock trading software with a user-friendly GUI. The software is PC based. The price is real-time from the Internet while the exchange is virtual. It shall be designed for beginners who want to learn stock trading.

**Virtual Stock-2.0 User Registration**

The system shall provide a window for user to register an account in Batman. Each user shall have his/her own account after registration. Users shall provide the following information: First Name, Last name, Address, Birthday, SSN, Bank account routing number and account number, Email address, Nationality and Agreement Form.

**Virtual Stock-2.1**

If a same account has been built up, the system shall let user know and ask the user to refill the form for registration

**Virtual Stock-3.0 User Log In**

The system shall have a window for user to log in. The window shall provide a user name input, a password input, a forget password button, a sign-in button and a sign-up button. The system shall let user into the “Portfolio” interface if the user type the right user name and password.

**Virtual Stock-3.1**

If the user failed to log in to the system, the system shall ask the user to refill the password.

**Virtual Stock-3.2**

The system shall provide a pin number for quick log in.

**Virtual Stock-4.0 Portfolio**

The system shall have a portfolio interface. In this interface, the system shall show a chart of user’s balance chart of today, a total balance value, a breaking news of today, stocks that a user keeps and his/her Shares, and a Watch list. A search button shall also be shown in the corner for user to search a specific stock.

**Virtual Stock-4.1**

The color of the GUI shall be green if the user’s balance goes up and be red if the user’s balance goes down.

**Virtual Stock-5.0 Account**

The system shall provide a window to show user’s account. The account shall show the Total balance, Stocks balance and Cash balance.

**Virtual Stock-6.0 Banking**

The system shall give a function for user to transfer money to a bank or to the Batman app. The linked accounts shall be shown in the bottom.

**Virtual Stock-6.1**

The system shall provide a bank account for user to deposit money.

**Virtual Stock-7.0 History**

The system shall provide a list of history of user’s trading log. The list will show the deposit form a bank, the buying and selling with the corresponding money. The system shall also show the date.

**Virtual Stock-7.1**

The system shall allow the user to see the history from/to a specific date.

**Virtual Stock-8.0 Setting**

The system shall have a setting interface for user to reset pin number and update user information including name, password, email, phone number and address. It shall also have a log out button for user to log out.

**Requirements Traceability Matrix**

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| --- | --- | --- | --- |
| Entry # | Para # | Requirements Traceability Matrix | Type |
|  |  |  |  |

**Work Structure Document**

Group name: Batman

|  |  |
| --- | --- |
| Name | Tasks |
| Mengyuan Zhu | Team Coordinator  Documents handler  Java coder  Problem Statement |
| Sungjae Kim | Finalize code documentation  Java coder  Gannt Chart |
| Sharon Kim | User Guide  Program tester  Rational |
| Jakub Pietrasik | Client  Requirements Traceabillity Matrix |
| Hyeun Kang | GUI development  GUI tester  Dictionary |

**Dictionary**

**Portfolio** In finance, a portfolio is a collection of investments held by an investment company, hedge fund, financial institution or individual.

Rationale